National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 1 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
LOCATION 1-SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA Permanent Facility				
1	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries	Test T.1: Altitude simulation	UN 38.3 Rev.7 (Clause No. 38.3.4.1) : 2019/Amend.1
2	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries	Test T.2 : Thermal Test	UN 38.3 Rev.7 (Clause No. 38.3.4.2) : 2019/Amend.1
3	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries	Test T.3 : Vibration	UN 38.3 Rev.7 (Clause No. 38.3.4.3) : 2019/Amend.1
4	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries	Test T.4 : Shock	UN 38.3 Rev.7 (Clause No. 38.3.4.4) : 2019/Amend.1
5	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries	Test T.5 : External Short Circuit	UN 38.3 Rev.7 (Clause No. 38.3.4.5) : 2019/Amend.1
6	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries	Test T.6 : Crush	UN 38.3 Rev.7 (Clause No. 38.3.4.6) : 2019/Amend.1
7	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries	Test T.6 : Impact	UN 38.3 Rev.7 (Clause No. 38.3.4.6) : 2019/Amend.1
8	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries	Test T.7 : Overcharge	UN 38.3 Rev.7 (Clause No. 38.3.4.7) : 2019/Amend.1
9	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries	Test T.8 : Forced discharge	UN 38.3 Rev.7 (Clause No. 38.3.4.8) : 2019/Amend.1
10	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Lithium System)	Case stress at high ambient temperature (Batteries)	IEC 62133-2: (Clause No. 7.2.2): 2017/AMD1: 2021 IS 16046 (Part 2): (Clause No. 7.2.2): 2018
11	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Lithium System)	Charging Procedure for test Purpose	IEC 62133-2: (Clause No. 7.1): 2017/AMD1: 2021 IS 16046 (Part 2): (Clause No. 7.1): 2018
12	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Lithium System)	Continuous charging at constant voltage (Cells)	IEC 62133-2: (Clause No. 7.2.1): 2017/AMD1: 2021 IS 16046 (Part 2): (Clause No. 7.2.1): 2018
13	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Lithium System)	Crushing of Cells	IEC 62133-2: (Clause No. 7.3.5): 2017/AMD1: 2021 IS 16046 (Part 2): (Clause No. 7.3.5) : 2018
14	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Lithium System)	External short circuit (Cells & battery)	IEC 62133-2: (Clause No. 7.3.1 & 7.3.2): 2017/AMD1: 2021 IS 16046 (Part 2): (Clause No. 7.3.1 & 7.3.2): 2018

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 2 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
15	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Lithium System)	Forced Discharge (Cells)	IEC 62133-2: (Clause No. 7.3.7): 2017/AMD1: 2021 IS 16046 (Part 2): (Clause No. 7.3.7): 2018
16	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Lithium System)	Free Fall	IEC 62133-2: (Clause No. 7.3.3): 2017/AMD1: 2021 IS 16046 (Part 2): (Clause No. 7.3.3): 2018
17	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Lithium System)	Insulation Resistance Test	IEC 62133-2: (Clause No. 5.2): 2017/AMD1: 2021 IS 16046 (Part 2): (Clause.5.2): 2018
18	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Lithium System)	Mechanical shock	IEC 62133-2: (Clause No. 7.3.8.2): 2017/AMD1: 2021 IS 16046 (Part 2): (Clause No. 7.3.8.2): 2018
19	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Lithium System)	Over-charging of battery	IS 16046 (Part 2): (Clause No. 7.3.6): 2018 IEC 62133-2: (Clause No. 7.3.6): 2017/AMD1: 2021
20	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Lithium System)	Thermal Abuse (Cells)	IS 16046 (Part 2): (Clause No. 7.3.4): 2018 IEC 62133-2: (Clause No. 7.3.4): 2017/AMD1: 2021
21	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Lithium System)	Vibration	IEC 62133-2: (Clause No. 7.3.8.1): 2017/AMD1: 2021 IS 16046 (Part 2): (Clause No. 7.3.8.1): 2018
22	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Nickel System)	Case stress at high ambient temperature (Batteries)	IEC 62133-1: (Clause No. 7.2.3): 2017 IS 16046 (Part 1): (Clause No. 7.2.3): 2018
23	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Nickel System)	Charging Procedure for test Purpose	IEC 62133-1 (Clause No. 7.1): 2017 IS 16046 (Part 1): (Clause No. 7.1): 2018
24	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Nickel System)	Continuous Low -rate charging (Cells)	IEC 62133-1 (Clause No. 7.2.1): 2017 IS 16046 (Part 1): (Clause No. 7.2.1): 2018
25	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Nickel System)	Crushing of Cells	IEC 62133-1: (Clause No. 7.3.6): 2017 IS 16046 (Part 1): (Clause No. 7.3.6): 2018
26	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Nickel System)	External Short circuit	IEC 62133-1: (Clause No. 7.3.2): 2017 IS 16046 (Part 1): (Clause No. 7.3.2): 2018

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 3 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
27	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Nickel System)	Forced Discharge (Cells)	IS 16046 (Part 1): (Clause No. 7.3.9): 2018 IEC 62133-1: (Clause No. 7.3.9): 2017
28	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Nickel System)	Free Fall	IEC 62133-1: (Clause No. 7.3.3): 2017 IS 16046 (Part 1): (Clause No. 7.3.3): 2018
29	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Nickel System)	Incorrect Installation (Cells)	IEC 62133-1: (Clause No. 7.3.1): 2017 IS 16046 (Part 1): (Clause No. 7.3.1): 2018
30	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Nickel System)	Insulation Resistance Test	IEC 62133-1 (Clause.5.2): 2017 IS 16046 (Part 1): (Clause.5.2): 2018
31	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Nickel System)	Low Pressure (Cells)	IEC 62133-1: (Clause No. 7.3.7): 2017 IS 16046 (Part 1): (Clause No. 7.3.7): 2018
32	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Nickel System)	Mechanical shock (Crash hazard)	IEC 62133-1: (Clause No. 7.3.4): 2017 IS 16046 (Part 1): (Clause No. 7.3.4): 2018
33	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Nickel System)	Overcharge	IS 16046 (Part 1): (Clause No. 7.3.8): 2018 IEC 62133-1: (Clause No. 7.3.8): 2017
34	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Nickel System)	Temperature Cycling	IEC 62133-1: (Clause No. 7.2.4): 2017 IS 16046 (Part 1): (Clause No. 7.2.4): 2018
35	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Nickel System)	Thermal Abuse (Cells)	IEC 62133-1: (Clause No. 7.3.5): 2017 IS 16046 (Part 1): (Clause No. 7.3.5): 2018
36	ELECTRICAL- CELLS & BATTERIES	Cells and Batteries (Nickel System)	Vibration	IEC 62133-1: (Clause No. 7.2.2): 2017 IS 16046 (Part 1): (Clause No. 7.2.2): 2018
37	ELECTRICAL- CELLS & BATTERIES	Primary Lithium Batteries	Test A: Altitude	IEC 60086-4 (Clause No. 6.4.1)
38	ELECTRICAL- CELLS & BATTERIES	Primary Lithium Batteries	Test B: Thermal cycling	IEC 60086-4 (Clause No. 6.4.2)
39	ELECTRICAL- CELLS & BATTERIES	Primary Lithium Batteries	Test C: Vibration	IEC 60086-4 (Clause No. 6.4.3)
40	ELECTRICAL- CELLS & BATTERIES	Primary Lithium Batteries	Test D: Shock	IEC 60086-4 (Clause No. 6.4.4)
41	ELECTRICAL- CELLS & BATTERIES	Primary Lithium Batteries	Test E: External Short-circuit	IEC 60086-4 (Clause No. 6.5.1)

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 4 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
42	ELECTRICAL- CELLS & BATTERIES	Primary Lithium Batteries	Test F: Impact	IEC 60086-4 (Clause No. 6.5.2)
43	ELECTRICAL- CELLS & BATTERIES	Primary Lithium Batteries	Test G: Crush	IEC 60086-4 (Clause No. 6.5.3)
44	ELECTRICAL- CELLS & BATTERIES	Primary Lithium Batteries	Test H: Forced discharge	IEC 60086-4 (Clause No. 6.5.4): 2019
45	ELECTRICAL- CELLS & BATTERIES	Primary Lithium Batteries	Test I: Abnormal Charging	IEC 60086-4 (Clause No. 6.5.5)
46	ELECTRICAL- CELLS & BATTERIES	Primary Lithium Batteries	Test J: Free Fall	IEC 60086-4 (Clause No. 6.5.6)
47	ELECTRICAL- CELLS & BATTERIES	Primary Lithium Batteries	Test K: Thermal abuse	IEC 60086-4 (Clause No. 6.5.7)
48	ELECTRICAL- CELLS & BATTERIES	Primary Lithium Batteries	Test L: Incorrect installation	IEC 60086-4 (Clause No. 6.5.8)
49	ELECTRICAL- CELLS & BATTERIES	Primary Lithium Batteries	Test M: Over discharge	IEC 60086-4 (Clause No. 6.5.9)
50	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Endurance	(Clause 18) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
51	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Construction	"(Clause 22) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
52	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
53	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Provision for Earthing	"(Clause 27) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
54	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
55	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Endurance	"(Clause 18) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
56	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Screw and connections	(Clause 28) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	5 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
57	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Screw and connections	(Clause 28) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
58	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
59	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Internal Wiring	(Clause 23) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
60	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
61	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Construction	"(Clause 22) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
62	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
63	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Resistance to Rusting	"(Clause 31) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
64	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Provision for Earthing	"(Clause 27) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
65	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Construction	"(Clause 22) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
66	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Resistance to Rusting	"(Clause 31) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
67	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Terminals for external conductors	"(Clause 26) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 6 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
68	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Abnormal Operation	"(Clause 19) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
69	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
70	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Terminals for external conductors	"(Clause 26) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
71	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Abnormal Operation	(Clause 19) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
72	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Marking and instructions	(Clause 7) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
73	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Endurance	(Clause 18) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
74	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
75	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Construction	(Clause 22) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
76	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Internal Wiring	(Clause 23) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
77	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Internal Wiring	"(Clause 23) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
78	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Protection against access to live parts	"(Clause 8) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
79	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 7 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
80	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Internal Wiring	"(Clause 23) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
81	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Internal Wiring	(Clause 23) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
82	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Mechanical Strength	(Clause 21) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
83	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
84	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Moisture Resistance	"(Clause 15) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
85	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Power Input and Current	"(Clause 10) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
86	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Internal Wiring	(Clause 23) IEC 60335-2-77: 2002, EN 60335-2-77:2010
87	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
88	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
89	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Protection against access to live parts	(Clause 8) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
90	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Transient overvoltages	"(Clause 14) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
91	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Mechanical Strength	"(Clause 21) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
92	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Power Input and Current	"(Clause 10) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	8 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
93	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Screw and connections	"(Clause 28) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
94	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Marking and instructions	(Clause 7) IEC 60335-2-94: 2008
95	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
96	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Construction	"(Clause 22) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
97	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Heating	"(Clause 11) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
98	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Provision for Earthing	(Clause 27) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
99	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Heating	(Clause 11) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
100	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Moisture Resistance	(Clause 15) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
101	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
102	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
103	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Resistance to Rusting	(Clause 31) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
104	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Abnormal Operation	(Clause 19) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
105	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 9 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
106	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Construction	(Clause 22) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
107	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Heating	(Clause 11) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
108	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Internal Wiring	(Clause 23) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
109	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
110	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Marking and instructions	(Clause 7) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
111	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Mechanical Strength	(Clause 21) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
112	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Moisture Resistance	(Clause 15) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
113	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
114	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Power Input and Current	(Clause 10) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
115	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Protection against access to live parts	(Clause 8) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
116	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Provision for Earthing	(Clause 27) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
117	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
118	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Resistance to Rusting	(Clause 31) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
119	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Screw and connections	(Clause 28) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 10 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
120	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
121	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
122	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Terminals for external conductors	(Clause 26) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
123	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	air-cleaning appliances	Transient overvoltages	(Clause 14) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012
124	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Abnormal Operation	"(Clause 19) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
125	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
126	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Endurance	"(Clause 18) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
127	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Heating	"(Clause 11) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
128	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Internal Wiring	"(Clause 23) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
129	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
130	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Marking and instructions	"(Clause 7) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
131	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Mechanical Strength	"(Clause 21) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
132	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Moisture Resistance	"(Clause 15) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	11 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
133	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
134	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Power Input and Current	"(Clause 10) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
135	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Protection against access to live parts	"(Clause 8) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
136	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Provision for Earthing	"(Clause 27) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
137	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
138	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
139	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Resistance to Rusting	"(Clause 31) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
140	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Screw and connections	"(Clause 28) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
141	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
142	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
143	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Terminals for external conductors	"(Clause 26) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
144	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	amusement machines and personal service machines	Transient overvoltages	"(Clause 14) IEC 60335-2-82: 2017+AMD1:2020, EN 60335-2-82:2003/A1: 2008"
145	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	12 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
146	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Abnormal Operation	(Clause 19) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
147	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
148	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Construction	(Clause 22) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
149	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Endurance	(Clause 18) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
150	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Heating	(Clause 11) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
151	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Internal Wiring	(Clause 23) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
152	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
153	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Marking and instructions	(Clause 7) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
154	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Mechanical Strength	(Clause 21) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 13 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
155	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Moisture Resistance	(Clause 15) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
156	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
157	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Power Input and Current	(Clause 10) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
158	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Protection against access to live parts	(Clause 8) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
159	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Provision for Earthing	(Clause 27) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
160	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
161	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Resistance to heat and Fire	(Clause 30) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
162	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Resistance to Rusting	(Clause 31) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
163	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Screw and connections	(Clause 28) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	14 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
164	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
165	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Terminals for external conductors	(Clause 26) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
166	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for heating liquids	Transient overvoltages	(Clause 14) IEC 60335-2-15:2012+AMD1:2016 + AMD2:2018 EN 60335-2-15:2016+A11:2018 IS 302-2-15:2009
167	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Abnormal Operation	(Clause 19) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
168	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Provision for Earthing	(Clause 27) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
169	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
170	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Construction	(Clause 22) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
171	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Endurance	(Clause 18) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
172	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Heating	(Clause 11) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 15 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
173	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Internal Wiring	(Clause 23) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
174	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
175	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Marking and instructions	(Clause 7) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
176	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Mechanical Strength	(Clause 21) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
177	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Moisture Resistance	(Clause 15) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
178	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
179	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Power Input and Current	(Clause 10) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
180	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Protection against access to live parts	(Clause 8) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
181	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	16 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
182	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Resistance to heat and Fire	(Clause 30) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
183	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Resistance to Rusting	(Clause 31) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
184	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Screw and connections	(Clause 28) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
185	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
186	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
187	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Terminals for external conductors	(Clause 26) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
188	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin exposure to optical radiation	Transient overvoltages	(Clause 14) IEC 60335-2-27:2009+AMD1:2012 +AMD2:2015 IEC 60335-2-27:2019 EN 60335-2-27: 2013
189	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Resistance to heat and Fire	(Clause 30) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
190	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Abnormal Operation	(Clause 19) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 17 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
191	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
192	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Construction	(Clause 22) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
193	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Endurance	(Clause 18) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
194	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Heating	(Clause 11) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
195	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Internal Wiring	(Clause 23) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
196	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
197	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Marking and instructions	(Clause 7) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
198	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Mechanical Strength	(Clause 21) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
199	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Moisture Resistance	(Clause 15) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
200	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
201	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Power Input and Current	(Clause 10) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
202	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Protection against access to live parts	(Clause 8) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
203	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Provision for Earthing	(Clause 27) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 18 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
204	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
205	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Resistance to Rusting	(Clause 31) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
206	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Screw and connections	(Clause 28) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
207	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
208	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
209	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Terminals for external conductors	(Clause 26) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
210	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances for skin or hair care	Transient overvoltages	(Clause 14) IEC 60335-2-23: 2016 EN 60335-2-23:2003/A2: 2015
211	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Abnormal Operation	"(Clause 19) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
212	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Clearances and Creepage Distances and solid insulation	"(Clause 29) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
213	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Construction	"(Clause 22) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
214	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Endurance	"(Clause 18) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
215	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Heating	"(Clause 11) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
216	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Internal Wiring	"(Clause 23) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
217	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
218	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Marking and instructions	"(Clause 7) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
219	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Mechanical Strength	"(Clause 21) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 19 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
220	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Moisture Resistance	"(Clause 15) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
221	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
222	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Power Input and Current	"(Clause 10) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
223	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Protection against access to live parts	"(Clause 8) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
224	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Provision for Earthing	"(Clause 27) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
225	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Radiation, toxicity and similar hazards (Verification of CoC)	"(Clause 32) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
226	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
227	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Resistance to Rusting	"(Clause 31) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
228	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Screw and connections	"(Clause 28) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
229	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
230	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
231	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Terminals for external conductors	"(Clause 26) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
232	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Transient overvoltages	"(Clause 14) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
233	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-104: 2003, EN 60335-2-104: 2003"
234	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Heating	(Clause 11) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
235	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Abnormal Operation	(Clause 19) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
236	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 20 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
237	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Construction	(Clause 22) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
238	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Endurance	(Clause 18) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
239	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Internal Wiring	(Clause 23) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
240	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
241	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Marking and instructions	(Clause 7) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
242	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Mechanical Strength	(Clause 21) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
243	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Moisture Resistance	(Clause 15) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
244	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
245	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Power Input and Current	(Clause 10) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
246	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Protection against access to live parts	(Clause 8) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
247	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Provision for Earthing	(Clause 27) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
248	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
249	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Resistance to heat and Fire	(Clause 30) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
250	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Resistance to Rusting	(Clause 31) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 21 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
251	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Screw and connections	(Clause 28) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
252	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
253	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
254	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Terminals for external conductors	(Clause 26) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
255	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Battery chargers	Transient overvoltages	(Clause 14) IEC 60335-2-29: 2016/AMD1:2019 EN 60335-2-29:2004/A2: 2010
256	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Construction	(Clause 22) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
257	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Abnormal Operation	(Clause 19) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
258	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
259	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Endurance	(Clause 18) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
260	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Heating	(Clause 11) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
261	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Internal Wiring	(Clause 23) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
262	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
263	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Marking and instructions	(Clause 7) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	22 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
264	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Mechanical Strength	(Clause 21) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
265	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Moisture Resistance	(Clause 15) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
266	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
267	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Power Input and Current	(Clause 10) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
268	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Protection against access to live parts	(Clause 8) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
269	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Provision for Earthing	(Clause 27) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
270	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
271	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Resistance to heat and Fire	(Clause 30) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
272	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Resistance to Rusting	(Clause 31) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
273	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Screw and connections	(Clause 28) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
274	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
275	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
276	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Terminals for external conductors	(Clause 26) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013
277	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Blankets, pads, clothing and similar flexible heating appliances	Transient overvoltages	(Clause 14) IEC 60335-2-17:2012/AMD1:2015/AMD2:2019 EN 60335-2-17:2013

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 23 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
278	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Abnormal Operation	(Clause 19) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
279	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Abnormal Operation	(Clause 19.1, 19.2, 19.3, 19.4, 19.5, 19.6, 19.7, 19.8,19.9, 19.10, 19.11, 19.12, 19.13) IS 302-2-26 : 2014
280	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Ageing Test on Motors	(Annex C) IS 302-2-26 : 2014
281	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
282	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Construction	(Clause 22) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
283	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Dry Heat	(Clause 29.3.3) IS 302-2-26 : 2014
284	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Endurance	(Clause 18) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
285	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Heating	(Clause 11) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
286	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Internal Wiring	(Clause 23) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
287	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Leakage Current and Electric strength	(Clause 13 & Clause 16) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
288	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Marking and instructions	(Clause 7) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 24 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
289	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Mechanical Strength	(Clause 21) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
290	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Moisture Resistance	(Clause 15) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
291	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
292	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Power Input and Current	(Clause 10) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
293	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Protection against access to live parts	(Clause 8) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
294	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Provision for Earthing	(Clause 27) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
295	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
296	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Resistance to heat and Fire	(Clause 30) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
297	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Resistance to Rusting	(Clause 31) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
298	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Screw and connections	(Clause 28) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
299	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	25 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
300	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014 (Clause 25.15, 25.16,25.17,25.25) IS 302-2-26 : 2014
301	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Terminals for external conductors	(Clause 26) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014 (Clause 26.5, 26.6 & 26.9, 26.11) IS 302-2-26 : 2014
302	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Thermal Motor Protectors	(Annex D) IS 302-2-26 : 2014
303	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Clocks	Transient overvoltages	(Clause 14) IEC 60335-2-26:2002/AMD1: 2008 EN 60335-2-26:2003/A1: 2008 IS 302-2-26 : 2014
304	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Abnormal Operation	(Clause 19) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
305	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
306	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Construction	(Clause 22) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
307	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Endurance	(Clause 18) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
308	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Heating	(Clause 11) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
309	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Internal Wiring	(Clause 23) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
310	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
311	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Marking and instructions	(Clause 7) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 26 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
312	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Mechanical Strength	(Clause 21) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
313	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Moisture Resistance	(Clause 15) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
314	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
315	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Power Input and Current	(Clause 10) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
316	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Protection against access to live parts	(Clause 8) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
317	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Provision for Earthing	(Clause 27) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
318	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
319	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Resistance to heat and Fire	(Clause 30) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
320	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Resistance to Rusting	(Clause 31) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
321	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Screw and connections	(Clause 28) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
322	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
323	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
324	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Terminals for external conductors	(Clause 26) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008
325	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	clothes dryers and towel rails	Transient overvoltages	(Clause 14) IEC 60335-2-43: 2017, EN 60335-2-43:2003/A2: 2008

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	27 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
326	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Abnormal Operation	"(Clause 19) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
327	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Construction	"(Clause 22) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
328	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Endurance	"(Clause 18) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
329	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Heating	"(Clause 11) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
330	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Internal Wiring	"(Clause 23) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
331	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
332	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Marking and instructions	"(Clause 7) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
333	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Mechanical Strength	"(Clause 21) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
334	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Moisture Resistance	"(Clause 15) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
335	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
336	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Power Input and Current	"(Clause 10) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 28 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
337	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Protection against access to live parts	"(Clause 8) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
338	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
339	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Resistance to Rusting	"(Clause 31) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
340	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Screw and connections	"(Clause 28) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
341	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
342	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
343	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Terminals for external conductors	"(Clause 26) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
344	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial dispensing appliances and vending machines	Transient overvoltages	"(Clause 14) IEC 60335-2-75:2012/AMD1: 2015, EN 60335-2-75:2004/A12: 2010"
345	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Abnormal Operation	(Clause 19) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
346	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	29 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
347	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Construction	(Clause 22) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
348	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Endurance	(Clause 18) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
349	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Heating	(Clause 11) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
350	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Internal Wiring	(Clause 23) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
351	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
352	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Marking and instructions	(Clause 7) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
353	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Mechanical Strength	(Clause 21) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
354	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Moisture Resistance	(Clause 15) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
355	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	30 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
356	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Power Input and Current	(Clause 10) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
357	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Protection against access to live parts	(Clause 8) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
358	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Provision for Earthing	(Clause 27) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
359	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
360	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Resistance to heat and Fire	(Clause 30) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
361	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Resistance to Rusting	(Clause 31) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
362	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Screw and connections	(Clause 28) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
363	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
364	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 31 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
365	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Terminals for external conductors	(Clause 26) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
366	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric appliances for keeping food and crockery warm	Transient overvoltages	(Clause 14) IEC 60335-2-49:2002+AMD1:2008 +AMD2:2017, IEC 60335-2-49:2021, EN 60335-2-49:2003/A11: 2012
367	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Abnormal Operation	"(Clause 19) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
368	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
369	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Construction	"(Clause 22) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
370	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Endurance	"(Clause 18) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
371	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Heating	"(Clause 11) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
372	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Internal Wiring	"(Clause 23) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
373	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
374	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Marking and instructions	"(Clause 7) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 32 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
375	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Mechanical Strength	"(Clause 21) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
376	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Moisture Resistance	"(Clause 15) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
377	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
378	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Power Input and Current	"(Clause 10) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
379	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Protection against access to live parts	"(Clause 8) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
380	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Provision for Earthing	"(Clause 27) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
381	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
382	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
383	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Resistance to Rusting	"(Clause 31) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
384	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Screw and connections	"(Clause 28) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
385	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	33 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
386	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
387	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Terminals for external conductors	"(Clause 26) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
388	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric bains-marie	Transient overvoltages	"(Clause 14) IEC 60335-2-50:2002+AMD1:2007 +AMD2:2017, EN 60335-2-50:2003/A1:2008"
389	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Abnormal Operation	"(Clause 19) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
390	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
391	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Construction	"(Clause 22) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
392	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Heating	"(Clause 11) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
393	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Internal Wiring	"(Clause 23) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
394	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
395	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Marking and instructions	"(Clause 7) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
396	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Mechanical Strength	"(Clause 21) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	34 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
397	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Moisture Resistance	"(Clause 15) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
398	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
399	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Power Input and Current	"(Clause 10) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
400	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Protection against access to live parts	"(Clause 8) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
401	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Provision for Earthing	"(Clause 27) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
402	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
403	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
404	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Resistance to Rusting	"(Clause 31) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
405	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Screw and connections	"(Clause 28) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
406	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
407	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	35 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
408	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Terminals for external conductors	"(Clause 26) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
409	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric boiling pans	Transient overvoltages	"(Clause 14) IEC 60335-2-47:2002/AMD2:2017, EN 60335-2-47:2003/A11:2012"
410	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Abnormal Operation	(Clause 19) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
411	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
412	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Construction	(Clause 22) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
413	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Endurance	(Clause 18) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
414	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Heating	(Clause 11) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
415	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Internal Wiring	(Clause 23) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
416	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Leakage Current	(Clause 13 and 16) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
417	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Marking and instructions	(Clause 7) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
418	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Mechanical Strength	(Clause 21) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
419	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Moisture Resistance	(Clause 15) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
420	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	36 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
421	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Power Input and Current	(Clause 10) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
422	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Protection against access to live parts	(Clause 8) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
423	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Provision for Earthing	(Clause 27) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
424	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
425	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Resistance to heat and Fire	(Clause 30) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
426	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Resistance to Rusting	(Clause 31) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
427	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Screw and connections	(Clause 28) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
428	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
429	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
430	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Terminals for external conductors	(Clause 26) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
431	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric cooking ranges, ovens, hobs and hob elements	Transient overvoltages	(Clause 14) IEC 60335-2-36: 2017, EN 60335-2-36:2002/A11: 2012
432	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Abnormal Operation	(Clause 19) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
433	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
434	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Construction	(Clause 22) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	37 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
435	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Endurance	(Clause 18) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
436	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Heating	(Clause 11) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
437	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Internal Wiring	(Clause 23) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
438	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
439	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Marking and instructions	(Clause 7) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
440	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Mechanical Strength	(Clause 21) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
441	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Moisture Resistance	(Clause 15) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
442	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
443	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Power Input and Current	(Clause 10) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
444	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Protection against access to live parts	(Clause 8) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
445	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Provision for Earthing	(Clause 27) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
446	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
447	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Resistance to heat and Fire	(Clause 30) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
448	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Resistance to Rusting	(Clause 31) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	38 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
449	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Screw and connections	(Clause 28) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
450	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
451	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
452	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Terminals for external conductors	(Clause 26) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
453	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric deep fat fryers	Transient overvoltages	(Clause 14) IEC 60335-2-37:2017, EN 60335-2-37:2002+A12: 2016
454	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Abnormal Operation	(Clause 19) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
455	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
456	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Construction	(Clause 22) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
457	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Endurance	(Clause 18) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
458	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Heating	(Clause 11) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
459	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Internal Wiring	(Clause 23) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
460	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
461	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Marking and instructions	(Clause 7) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
462	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Mechanical Strength	(Clause 21) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	39 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
463	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Moisture Resistance	(Clause 15) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
464	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
465	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Power Input and Current	(Clause 10) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
466	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Protection against access to live parts	(Clause 8) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
467	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Provision for Earthing	(Clause 27) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
468	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
469	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Resistance to heat and Fire	(Clause 30) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
470	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Resistance to Rusting	(Clause 31) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
471	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
472	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
473	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Terminals for external conductors	(Clause 26) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
474	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric dishwashing machines	Transient overvoltages	(Clause 14) IEC 60335-2-58: 2017, EN 60335-2-58:2005+A12:2016
475	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Abnormal Operation	"(Clause 19) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 40 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
476	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Clearances and Creepage Distances a	"(Clause 29) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
477	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Construction	"(Clause 22) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
478	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Endurance	"(Clause 18) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
479	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Heating	"(Clause 11) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
480	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Internal Wiring	"(Clause 23) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
481	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
482	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Marking and instructions	"(Clause 7) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
483	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Mechanical Strength	"(Clause 21) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
484	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Moisture Resistance	"(Clause 15) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
485	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
486	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Power Input and Current	"(Clause 10) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 41 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
487	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Protection against access to live parts	"(Clause 8) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
488	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Provision for Earthing	"(Clause 27) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
489	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
490	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
491	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Resistance to Rusting	"(Clause 31) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
492	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Screw and connections	"(Clause 28) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
493	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
494	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
495	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric forced convection ovens, steam cookers and steam-convection ovens	Terminals for external conductors	"(Clause 26) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
496	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Abnormal Operation	"(Clause 19) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
497	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 42 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
498	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Construction	"(Clause 22) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
499	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Endurance	"(Clause 18) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
500	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Heating	"(Clause 11) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
501	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Internal Wiring	"(Clause 23) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
502	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
503	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Marking and instructions	"(Clause 7) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
504	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Mechanical Strength	"(Clause 21) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
505	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Moisture Resistance	"(Clause 15) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
506	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
507	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Power Input and Current	"(Clause 10) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
508	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Protection against access to live parts	"(Clause 8) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
509	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Provision for Earthing	"(Clause 27) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
510	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
511	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 43 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
512	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Resistance to Rusting	"(Clause 31) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
513	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Screw and connections	"(Clause 28) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
514	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
515	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
516	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Terminals for external conductors	"(Clause 26) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
517	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric griddles and griddle grills	Transient overvoltages	"(Clause 14) IEC 60335-2-38:2002/AMD2:2017, EN 60335-2-38:2003/A1:2008"
518	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Abnormal Operation	"(Clause 19) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
519	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
520	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Construction	"(Clause 22) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
521	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Endurance	"(Clause 18) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
522	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Heating	"(Clause 11) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
523	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Internal Wiring	"(Clause 23) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 44 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
524	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
525	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Marking and instructions	"(Clause 7) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
526	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Mechanical Strength	"(Clause 21) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
527	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Moisture Resistance	"(Clause 15) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
528	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
529	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Power Input and Current	"(Clause 10) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
530	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Protection against access to live parts	"(Clause 8) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
531	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Provision for Earthing	"(Clause 27) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
532	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
533	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
534	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Resistance to Rusting	"(Clause 31) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 45 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
535	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Screw and connections	"(Clause 28) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
536	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
537	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
538	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Terminals for external conductors	"(Clause 26) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
539	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric grillers and toasters	Transient overvoltages	"(Clause 14) IEC 60335-2-48:2002/AMD2:2017, EN 60335-2-48:2003/A11:2012"
540	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Abnormal Operation	(Clause 19) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
541	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
542	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Construction	(Clause 22) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
543	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Endurance	(Clause 18) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
544	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Heating	(Clause 11) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
545	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Internal Wiring	(Clause 23) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
546	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	46 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
547	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Marking and instructions	(Clause 7) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
548	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Mechanical Strength	(Clause 21) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
549	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Moisture Resistance	(Clause 15) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
550	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
551	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Power Input and Current	(Clause 10) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
552	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Protection against access to live parts	(Clause 8) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
553	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Provision for Earthing	(Clause 27) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
554	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
555	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Resistance to heat and Fire	(Clause 30) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
556	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Resistance to Rusting	(Clause 31) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
557	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
558	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Terminals for external conductors	(Clause 26) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
559	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric kitchen machines	Transient overvoltages	(Clause 14) IEC 60335-2-64:2002/AMD2:2017, EN 60335-2-64: 2000/A1:2002
560	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Abnormal Operation	"(Clause 19) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	47 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
561	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
562	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Construction	"(Clause 22) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
563	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Endurance	"(Clause 18) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
564	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Heating	"(Clause 11) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
565	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Internal Wiring	"(Clause 23) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
566	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
567	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Marking and instructions	"(Clause 7) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
568	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Mechanical Strength	"(Clause 21) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
569	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Moisture Resistance	"(Clause 15) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
570	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
571	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Power Input and Current	"(Clause 10) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
572	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Protection against access to live parts	"(Clause 8) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
573	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Provision for Earthing	"(Clause 27) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
574	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5688	**Page No**	48 of 514
Validity	24/04/2022 to 23/04/2024	**Last Amended on**	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
575	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
576	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Resistance to Rusting	"(Clause 31) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
577	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Screw and connections	"(Clause 28) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
578	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
579	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
580	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Terminals for external conductors	"(Clause 26) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
581	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Commercial electric multi-purpose cooking pans	Transient overvoltages	"(Clause 14) IEC 60335-2-39:2012/AMD1:2017, EN 60335-2-39:2003/A2:2008"
582	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Abnormal Operation	(Clause 19) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
583	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
584	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Construction	(Clause 22) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
585	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Endurance	(Clause 18) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
586	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Heating	"(Clause 11) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
587	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
588	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Marking and instructions	(Clause 7) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	49 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
589	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Mechanical Strength	(Clause 21) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
590	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Moisture Resistance	(Clause 15) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
591	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
592	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Power Input and Current	(Clause 10) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
593	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Protection against access to live parts	(Clause 8) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
594	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Provision for Earthing	(Clause 27) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
595	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
596	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Resistance to heat and Fire	(Clause 30) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
597	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Resistance to Rusting	(Clause 31) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
598	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Screw and connections	(Clause 28) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
599	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
600	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Terminals for external conductors	(Clause 26) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
601	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial electric rinsing sinks	Transient overvoltages	(Clause 14) IEC 60335-2-62:2002/AMD1:2008, EN 60335-2-62:2003/A1:2008
602	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Abnormal Operation	"(Clause 19) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 50 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
603	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
604	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Construction	"(Clause 22) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
605	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Endurance	"(Clause 18) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
606	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Heating	"(Clause 11) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
607	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Internal Wiring	"(Clause 23) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
608	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
609	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Marking and instructions	"(Clause 7) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
610	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Mechanical Strength	"(Clause 21) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
611	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Moisture Resistance	"(Clause 15) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
612	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
613	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Power Input and Current	"(Clause 10) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
614	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Protection against access to live parts	"(Clause 8) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
615	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Provision for Earthing	"(Clause 27) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 51 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
616	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
617	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
618	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Resistance to Rusting	"(Clause 31) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
619	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Screw and connections	"(Clause 28) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
620	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
621	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
622	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Terminals for external conductors	"(Clause 26) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
623	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial microwave ovens	Transient overvoltages	"(Clause 14) IEC 60335-2-90: 2015+AMD1:2019, EN 60335-2-90:2006/A1: 2010"
624	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Abnormal Operation	"(Clause 19) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
625	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
626	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Endurance	"(Clause 18) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	52 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
627	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Heating	"(Clause 11) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
628	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Internal Wiring	"(Clause 23) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
629	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
630	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Marking and instructions	"(Clause 7) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
631	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Mechanical Strength	"(Clause 21) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
632	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Moisture Resistance	"(Clause 15) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
633	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
634	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Power Input and Current	"(Clause 10) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
635	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Protection against access to live parts	"(Clause 8) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	53 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
636	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Provision for Earthing	"(Clause 27) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
637	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
638	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Screw and connections	"(Clause 28) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
639	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
640	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
641	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Terminals for external conductors	"(Clause 26) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
642	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor	Transient overvoltages	"(Clause 14) IEC 60335-2-89:2010+AMD1:2012 +AMD2:2015, IEC 60335-2-89:2019, EN 60335-2-89:2010+A1: 2016"
643	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Abnormal Operation	(Clause 19) IS 302-2-6 : 2009
644	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Ageing Test on Motors	(Annex C) IS 302-2-6 : 2009
645	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Capacitors	(Annex F) IS 302-2-6 : 2009
646	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Clearances and Creepage Distances	(Clause 29) IS 302-2-6 : 2009

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 54 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
647	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Construction	(Clause 22) IS 302-2-6 : 2009
648	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Electric strength	(Clause 13.3 and 16.3) IS 302-2-6 : 2009
649	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Endurance	(Clause 18) IS 302-2-6 : 2009
650	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Heating	(Clause 11) IS 302-2-6 : 2009
651	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Internal wiring	(Clause 23.3) IS 302-2-6 : 2009
652	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Leakage Current	(Clause 16.1,16.2) IS 302-2-6 : 2009
653	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Marking and instructions	(Clause 7) IS 302-2-6 : 2009
654	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Mechanical Strength	(Clause 21) IS 302-2-6 : 2009
655	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Moisture Resistance	(Clause 15) IS 302-2-6 : 2009
656	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Needle flame test	(Annex E) IS 302-2-6 : 2009
657	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Overload protection of transformers and associated circuits	(Clause 17) IS 302-2-6 : 2009
658	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Power Input and Current	(Clause 10.1, 10.2) IS 302-2-6 : 2009
659	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Proof tracking test	(Annex N) IS 302-2-6 : 2009
660	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Protection against access to live parts	(Clause 8) IS 302-2-6 : 2009
661	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Provision for Earthing	(Clause 27) IS 302-2-6 : 2009
662	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Radiation, toxicity and similar hazards	(Clause 32) IS 302-2-6 : 2009
663	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Resistance to heat and Fire	(Clause 30) IS 302-2-6 : 2009
664	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Resistance to Rusting	(Clause 31) IS 302-2-6 : 2009

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 55 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
665	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Safety Isolating Transformers	(Annex G) IS 302-2-6 : 2009
666	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Screw and connections	(Clause 28) IS 302-2-6 : 2009
667	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Stability & Mechanical Hazards	(Clause 20) IS 302-2-6 : 2009
668	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Supply Connection and External Flexible cords	(Clause 25) IS 302-2-6 : 2009
669	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Terminals for external conductors	(Clause 26) IS 302-2-6 : 2009
670	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Thermal Motor Protectors	(Annex D) IS 302-2-6 : 2009
671	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	Transient overvoltages	(Clause 14) IS 302-2-6 : 2009
672	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	cooking ranges, hobs, ovens and similar appliances	UV-C radiation effect on non-metallic materials	(Annex T) IS 302-2-6 : 2009
673	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
674	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Abnormal Operation	(Clause 19) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
675	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
676	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Construction	(Clause 22) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
677	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Endurance	(Clause 18) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
678	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Heating	(Clause 11) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
679	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Internal Wiring	(Clause 23) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 56 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
680	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Marking and instructions	(Clause 7) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
681	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Mechanical Strength	(Clause 21) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
682	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Moisture Resistance	(Clause 15) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
683	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
684	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Power Input and Current	(Clause 10) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
685	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Protection against access to live parts	(Clause 8) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
686	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Provision for Earthing	(Clause 27) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
687	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
688	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	deep fat fryers, frying pans and similar appliances	Resistance to heat and Fire	(Clause 30) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
689	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Resistance to Rusting	(Clause 31) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
690	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Screw and connections	(Clause 28) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
691	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
692	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
693	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Terminals for external conductors	(Clause 26) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	57 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
694	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Deep fat fryers, frying pans and similar appliances	Transient overvoltages	(Clause 14) IEC 60335-2-13:2009/AMD1:2016 EN 60335-2-13:2010/A11:2012
695	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Screw and connections	"(Clause 28) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
696	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Abnormal Operation	"(Clause 19) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
697	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
698	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Construction	"(Clause 22) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
699	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Endurance	"(Clause 18) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
700	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Heating	"(Clause 11) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
701	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Internal Wiring	"(Clause 23) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
702	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
703	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Marking and instructions	"(Clause 7) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
704	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Mechanical Strength	"(Clause 21) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
705	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Moisture Resistance	"(Clause 15) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
706	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
707	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Power Input and Current	"(Clause 10) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	58 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
708	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Protection against access to live parts	"(Clause 8) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
709	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Provision for Earthing	"(Clause 27) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
710	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
711	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
712	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Resistance to Rusting	"(Clause 31) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
713	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
714	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
715	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Terminals for external conductors	"(Clause 26) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
716	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	dishwashers	Transient overvoltages	"(Clause 14) IEC 60335-2-5:2012/AMD1: 2018 EN 60335-2-5:2015"
717	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Abnormal Operation	"(Clause 19) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
718	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Clearances and Creepage Distances and solid insulation	"(Clause 29) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
719	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Construction	"(Clause 22) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 59 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
720	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Endurance	"(Clause 18) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
721	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Heating	"(Clause 11) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
722	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Internal Wiring	"(Clause 23) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
723	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
724	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
725	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Marking and instructions	"(Clause 7) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
726	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Mechanical Strength	"(Clause 21) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
727	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Moisture Resistance	"(Clause 15) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
728	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
729	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Power Input and Current	"(Clause 10) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
730	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Protection against access to live parts	"(Clause 8) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	60 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
731	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Provision for Earthing	"(Clause 27) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
732	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Radiation, toxicity and similar hazards (Verification of CoC)	"(Clause 32) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
733	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
734	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Resistance to Rusting	"(Clause 31) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
735	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Screw and connections	"(Clause 28) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
736	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
737	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
738	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Terminals for external conductors	"(Clause 26) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
739	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Drives for gates, doors and windows	Transient overvoltages	"(Clause 14) IEC 60335-2-103:2015/AMD1:2017 +AMD2:2019, EN 60335-2-103: 2015"
740	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Abnormal Operation	"(Clause 19) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
741	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 61 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
742	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Construction	"(Clause 22) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
743	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Endurance	"(Clause 18) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
744	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Heating	"(Clause 11) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
745	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Internal Wiring	"(Clause 23) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
746	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
747	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Marking and instructions	"(Clause 7) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
748	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Mechanical Strength	"(Clause 21) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
749	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Moisture Resistance	"(Clause 15) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
750	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
751	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Power Input and Current	"(Clause 10) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
752	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Protection against access to live parts	"(Clause 8) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
753	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
754	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	62 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
755	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Resistance to Rusting	"(Clause 31) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
756	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Screw and connections	"(Clause 28) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
757	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for shutters, awnings, blinds and similar equipment	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
758	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Abnormal Operation	"(Clause 19) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
759	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
760	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Construction	"(Clause 22) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
761	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Endurance	"(Clause 18) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
762	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Heating	"(Clause 11) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
763	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Internal Wiring	"(Clause 23) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
764	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	63 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
765	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Marking and instructions	"(Clause 7) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
766	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Mechanical Strength	"(Clause 21) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
767	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Moisture Resistance	"(Clause 15) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
768	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
769	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Power Input and Current	"(Clause 10) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
770	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Protection against access to live parts	"(Clause 8) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
771	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Provision for Earthing	"(Clause 27) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
772	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
773	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 64 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
774	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Resistance to Rusting	"(Clause 31) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
775	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Screw and connections	"(Clause 28) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
776	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
777	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
778	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Terminals for external conductors	"(Clause 26) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
779	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	drives for vertically moving garage doors for residential use	Transient overvoltages	"(Clause 14) IEC 60335-2-95:2011+AMD1:2015 +AMD2:2017, IEC 60335-2-95:2019, EN 60335-2-95:2015+A1: 2015"
780	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Abnormal Operation	"(Clause 19) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
781	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
782	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Endurance	"(Clause 18) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
783	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Heating	"(Clause 11) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	65 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
784	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Internal Wiring	"(Clause 23) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
785	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
786	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Marking and instructions	"(Clause 7) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
787	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Mechanical Strength	"(Clause 21) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
788	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Moisture Resistance	"(Clause 15) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
789	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
790	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Power Input and Current	"(Clause 10) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
791	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Protection against access to live parts	"(Clause 8) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
792	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Provision for Earthing	"(Clause 27) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
793	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
794	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
795	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Screw and connections	"(Clause 28) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
796	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
797	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	66 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
798	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Terminals for external conductors	"(Clause 26) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
799	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fence energizers	Transient overvoltages	"(Clause 14) IEC 60335-2-76 :2018, EN 60335-2-76:2005 /A12 :2010"
800	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Abnormal Operation	"(Clause 19) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
801	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
802	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Construction	"(Clause 22) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
803	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Endurance	"(Clause 18) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
804	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Heating	"(Clause 11) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
805	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Internal Wiring	"(Clause 23) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
806	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
807	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Marking and instructions	"(Clause 7) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
808	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Mechanical Strength	"(Clause 21) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	67 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
809	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Moisture Resistance	"(Clause 15) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
810	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
811	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Power Input and Current	"(Clause 10) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
812	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Protection against access to live parts	"(Clause 8) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
813	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Provision for Earthing	"(Clause 27) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
814	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
815	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
816	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Resistance to Rusting	"(Clause 31) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
817	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Screw and connections	"(Clause 28) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
818	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"
819	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electric fishing machines	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-86:2002/AMD2: 2012, EN 60335-2-86:2003/A11 : 2016"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	68 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
820	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Food Mixers and Centrifugal Juicers	Creepage Distance and Clearance	IS 4250 (Clause No. 38) : 1980+ Amd. 10 : 2019
821	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Food Mixers and Centrifugal Juicers	Electric Strength	IS 4250 (Clause No. 38) : 1980+ Amd. 10 : 2019
822	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Food Mixers and Centrifugal Juicers	Insulation Resistance	IS 4250 (Clause No. 38) : 1980+ Amd. 10 : 2019
823	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Food Mixers and Centrifugal Juicers	Leakage Current	IS 4250 (Clause No. 13) + Amd. 10 : 2019
824	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Food Mixers and Centrifugal Juicers	Marking Test	IS 4250 (Clause 7) : 1980 + Amd. 10 : 2019
825	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Food Mixers and Centrifugal Juicers	Mechanical Strength	IS 4250: 1980 + Amd. 10 : 2019
826	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Food Mixers and Centrifugal Juicers	Protection Against Electric Shock	IS 4250 (Clause No. 38) : 1980 + Amd. 10 : 2019
827	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Food Mixers and Centrifugal Juicers	Provision for Earthing	IS 4250 (Clause No. 38) : 1980 + Amd. 10 : 2019
828	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Food Mixers and Centrifugal Juicers	Visual Inspection	IS 4250 (Clause No. 8): 1980 + Amd. 10 : 2019
829	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron	Electric Strength	IS 366(Clause 16) : 1991 + Amd. 6: 2011
830	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron	Insulation Resistance	IS 366(Clause 16) : 1991 + Amd. 6: 2011
831	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron	Leakage Current	IS 366 (Clause 13): 1991 + Amd. 6: 2011
832	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron	Marking Test	IS 366 (Clause 7) : 1991 Amd. 6: 2011
833	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron	Mechanical Strength	IS 366 (Clause 21): 1991+ Amd. 6: 2011
834	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron	Moisture Resistance	IS 366 (Clause 15) : 1991 + Amd. 6: 2011
835	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron	Protection Against Electric Shock	IS 366 (Clause 8) : 1991 + Amd. 6: 2011
836	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Iron	Provision for Earthing	IS 366 (Clause 27): 1991 + Amd. 6: 2011
837	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Abnormal Operation	"(Clause 19) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 69 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
838	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	"(Clause 29) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
839	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Construction	"(Clause 22) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
840	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Endurance	"(Clause 18) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
841	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Heating	"(Clause 11) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
842	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Internal Wiring	"(Clause 23) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
843	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
844	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Marking and instructions	"(Clause 7) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
845	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Mechanical Strength	"(Clause 21) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
846	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Moisture Resistance	"(Clause 15) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
847	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
848	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Power Input and Current	"(Clause 10) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
849	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Protection against access to live parts	"(Clause 8) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
850	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Provision for Earthing	"(Clause 27) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 70 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
851	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
852	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
853	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Resistance to Rusting	"(Clause 31) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
854	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Screw and connections	"(Clause 28) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
855	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
856	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
857	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Terminals for external conductors	"(Clause 26) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
858	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric irons	Transient overvoltages	"(Clause 14) IEC 60335-2-3:2012/AMD1:2015 EN 60335-2-3: 2016"
859	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator	Electric Strength	IS 369: 1992 (Clause 16) , Amd. 2: 2001
860	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator	Insulation Resistance	IS 369: 1992 (Clause 16) , Amd. 2: 2001
861	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator	Leakage Current	IS 369: 1992 (Clause 16) , Amd. 2: 2001
862	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator	Marking Test	IS 369 (Clause 7) : 1992 Amd. 2: 2001
863	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator	Mechanical Strength	IS 369 (Clause 21) : 1992 Amd. 2: 2001
864	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator	Moisture Resistance	IS 369 (Clause 15): 1992 Amd. 2: 2001
865	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator	Protection Against Electric Shock	IS 369 (Clause 8) : 1992 Amd. 2: 2001
866	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Radiator	Provision for Earthing	IS 369 (Clause 27) : 1992 Amd. 2: 2001

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	71 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
867	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toaster	Electric Strength	IS 1287 (Clause 13) : 1993
868	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toaster	Insulation Resistance	IS 1287 (Clause 13) : 1993
869	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toaster	Leakage Current	IS 1287 (Clause 9) : 1993
870	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toaster	Marking Test	IS 1287 (Clause 8) : 1993
871	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toaster	Mechanical Strength	IS 1287 (Clause 9) : 1993
872	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toaster	Moisture Resistance	IS 1287 (Clause 9) : 1993
873	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toaster	Protection Against Electric Shock	IS 1287 (Clause 9) : 1993
874	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toaster	Provision for Earthing	IS 1287 (Clause 9) : 1993
875	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Toaster	Visual Inspection	IS 1287 (Clause 9) : 1993
876	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Abnormal Operation	"(Clause 19) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
877	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
878	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Construction	"(Clause 22) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
879	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Endurance	"(Clause 18) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
880	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Heating	"(Clause 11) IEC 60335-2-87:2002/AMD2: 2012, EN 60335-2-87:2002/A1: 2007"
881	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Internal Wiring	"(Clause 23) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 72 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
882	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
883	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Marking and instructions	"(Clause 7) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
884	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Mechanical Strength	"(Clause 21) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
885	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Moisture Resistance	"(Clause 15) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
886	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
887	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Power Input and Current	"(Clause 10) IEC 60335-2-87:2002/AMD2: 2012, EN 60335-2-87:2002/A1: 2007"
888	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Protection against access to live parts	"(Clause 8) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
889	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Provision for Earthing	"(Clause 27) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
890	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
891	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
892	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Resistance to Rusting	"(Clause 31) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	73 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
893	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Screw and connections	"(Clause 28) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
894	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
895	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
896	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Terminals for external conductors	"(Clause 26) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
897	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical animal-stunning equipment	Transient overvoltages	"(Clause 14) IEC 60335-2-87:20072/AMD2: 2012, EN 60335-2-87:20072/A1: 2007"
898	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
899	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Construction	"(Clause 22) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
900	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Endurance	"(Clause 18) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
901	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Heating	"(Clause 11) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
902	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Internal Wiring	"(Clause 23) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
903	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Marking and instructions	"(Clause 7) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	74 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
904	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Mechanical Strength	"(Clause 21) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
905	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Moisture Resistance	"(Clause 15) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
906	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
907	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Power Input and Current	"(Clause 10) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
908	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Protection against access to live parts	"(Clause 8) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
909	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Provision for Earthing	"(Clause 27) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
910	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
911	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Resistance to Rusting	"(Clause 31) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
912	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Screw and connections	"(Clause 28) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
913	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
914	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	75 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
915	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical appliances for use with aquariums and garden ponds	Transient overvoltages	"(Clause 14) IEC 60335-2-55:2002/AMD1:2008, IEC 60335-2-55:2021, EN 60335-2-55:2003/A1:2008"
916	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Abnormal Operation	"(Clause 19) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
917	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
918	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Construction	"(Clause 22) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
919	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Endurance	"(Clause 18) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
920	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Heating	"(Clause 11) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
921	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Internal Wiring	"(Clause 23) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
922	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
923	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Marking and instructions	"(Clause 7) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
924	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Mechanical Strength	"(Clause 21) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
925	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Moisture Resistance	"(Clause 15) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	76 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
926	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
927	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Power Input and Current	"(Clause 10) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
928	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Protection against access to live parts	"(Clause 8) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
929	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Provision for Earthing	"(Clause 27) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
930	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
931	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
932	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Resistance to Rusting	"(Clause 31) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
933	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Screw and connections	"(Clause 28) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
934	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
935	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
936	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Terminals for external conductors	"(Clause 26) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	77 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
937	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heat pumps, air-conditioners and dehumidifiers	Transient overvoltages	"(Clause 14) IEC 60335-2-40:2018, EN 60335-2-40:2003/A13:2012/AC :2013"
938	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Abnormal Operation	"(Clause 19) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
939	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
940	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Construction	"(Clause 22) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
941	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Endurance	"(Clause 18) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
942	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Heating	"(Clause 11) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
943	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Internal Wiring	"(Clause 23) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
944	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
945	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Marking and instructions	"(Clause 7) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
946	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Mechanical Strength	"(Clause 21) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
947	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Moisture Resistance	"(Clause 15) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
948	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
949	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Power Input and Current	"(Clause 10) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 78 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
950	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Protection against access to live parts	"(Clause 8) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
951	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Provision for Earthing	"(Clause 27) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
952	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
953	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
954	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Resistance to Rusting	"(Clause 31) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
955	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Screw and connections	"(Clause 28) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
956	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
957	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
958	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Terminals for external conductors	"(Clause 26) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
959	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	electrical heating appliances for breeding and rearing animals	Transient overvoltages	"(Clause 14) IEC 60335-2-71:2018, EN 60335-2-71:2003/A1:2007"
960	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Abnormal Operation	(Clause 19) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
961	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
962	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Protection against access to live parts	(Clause 8) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
963	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Provision for Earthing	(Clause 27) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	79 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
964	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
965	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
966	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Construction	(Clause 22) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
967	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Endurance	(Clause 18) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
968	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Heating	(Clause 11) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
969	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Internal Wiring	(Clause 23) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
970	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
971	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Marking and instructions	(Clause 7) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
972	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Mechanical Strength	(Clause 21) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
973	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Moisture Resistance	(Clause 15) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
974	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Power Input and Current	(Clause 10) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
975	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
976	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Resistance to heat and Fire	(Clause 30) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
977	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Resistance to Rusting	(Clause 31) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	80 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
978	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Screw and connections	(Clause 28) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
979	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
980	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Terminals for external conductors	(Clause 26) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
981	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrical Pumps	Transient overvoltages	(Clause 14) IEC 60335-2-41:2012, EN 60335-2-41:2003/A2:2010
982	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
983	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Abnormal Operation	"(Clause 19) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
984	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	"(Clause 29) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
985	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Construction	"(Clause 22) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
986	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Endurance	"(Clause 18) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
987	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Heating	"(Clause 11) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
988	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Internal Wiring	"(Clause 23) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
989	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
990	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Marking and instructions	"(Clause 7) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
991	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Mechanical Strength	"(Clause 21) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
992	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Moisture Resistance	"(Clause 15) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
993	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Power Input and Current	"(Clause 10) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 81 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
994	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Protection against access to live parts	"(Clause 8) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
995	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Provision for Earthing	"(Clause 27) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
996	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
997	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
998	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Resistance to Rusting	"(Clause 31) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
999	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Screw and connections	"(Clause 28) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
1000	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
1001	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
1002	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Terminals for external conductors	"(Clause 26) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
1003	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electrolysers	Transient overvoltages	"(Clause 14) IEC 60335-2-108: 2008, EN 60335-2-108: 2008"
1004	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Abnormal Operation	"(Clause 19) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1005	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1006	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Construction	"(Clause 22) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1007	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Endurance	"(Clause 18) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1008	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Heating	"(Clause 11) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1009	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Internal Wiring	"(Clause 23) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	82 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1010	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1011	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Marking and instructions	"(Clause 7) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1012	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Mechanical Strength	"(Clause 21) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1013	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Moisture Resistance	"(Clause 15) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1014	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1015	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Power Input and Current	"(Clause 10) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1016	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Protection against access to live parts	"(Clause 8) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1017	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Provision for Earthing	"(Clause 27) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1018	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1019	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1020	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Resistance to Rusting	"(Clause 31) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1021	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Screw and connections	"(Clause 28) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1022	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1023	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 83 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1024	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Terminals for external conductors	"(Clause 26) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1025	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fabric steamers	Transient overvoltages	"(Clause 14) IEC 60335-2-85:2002/AMD2: 2017, EN 60335-2-85:2003/A1: 2008"
1026	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1027	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Construction	(Clause 22) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1028	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Endurance	(Clause 18) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1029	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Heating	(Clause 11) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1030	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Internal Wiring	(Clause 23) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1031	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1032	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Mechanical Strength	(Clause 21) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1033	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Moisture Resistance	(Clause 15) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1034	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1035	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Power Input and Current	(Clause 10) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1036	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Protection against access to live parts	(Clause 8) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1037	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Provision for Earthing	(Clause 27) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	84 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1038	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1039	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Resistance to heat and Fire	(Clause 30) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1040	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Resistance to Rusting	(Clause 31) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1041	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Screw and connections	(Clause 28) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1042	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1043	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1044	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Terminals for external conductors	(Clause 26) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1045	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fans	Transient overvoltages	(Clause 14) IEC 60335-2-80: 2015, EN 60335-2-80:2003+A2: 2009
1046	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Abnormal Operation	(Clause 19) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1047	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1048	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Construction	(Clause 22) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1049	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Heating	(Clause 11) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1050	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Internal Wiring	(Clause 23) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1051	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	85 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1052	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Marking and instructions	(Clause 7) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1053	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Mechanical Strength	(Clause 21) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1054	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Moisture Resistance	(Clause 15) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1055	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1056	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Power Input and Current	(Clause 10) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1057	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Protection against access to live parts	(Clause 8) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1058	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Provision for Earthing	(Clause 27) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1059	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1060	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Resistance to heat and Fire	(Clause 30) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1061	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Resistance to Rusting	(Clause 31) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1062	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Screw and connections	(Clause 28) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1063	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1064	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1065	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Terminals for external conductors	(Clause 26) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	86 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1066	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	fixed immersion heaters	Transient overvoltages	(Clause 14) IEC 60335-2-73:2002/AMD2 :2009, EN 60335-2-73:2003/A2 :2009
1067	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Abnormal Operation	"(Clause 19) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1068	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Construction	"(Clause 22) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1069	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Endurance	"(Clause 18) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1070	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Heating	"(Clause 11) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1071	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Internal Wiring	"(Clause 23) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1072	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1073	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Marking and instructions	"(Clause 7) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1074	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Mechanical Strength	"(Clause 21) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1075	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Moisture Resistance	"(Clause 15) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1076	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1077	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Power Input and Current	"(Clause 10) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1078	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Protection against access to live parts	"(Clause 8) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1079	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Provision for Earthing	"(Clause 27) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	87 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1080	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1081	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1082	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Resistance to Rusting	"(Clause 31) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1083	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Screw and connections	"(Clause 28) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1084	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1085	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1086	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Terminals for external conductors	"(Clause 26) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1087	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	flexible sheet heating elements for room heating	Transient overvoltages	"(Clause 14) IEC 60335-2-96:2002/AMD2: 2008, EN 60335-2-96:2002/A2: 2009"
1088	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Abnormal Operation	(Clause 19) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1089	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Clearances and Creepage Distances and solid insulation	(Clause 29) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1090	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Construction	(Clause 22) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1091	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Endurance	(Clause 18) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1092	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Heating	(Clause 11) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1093	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Internal Wiring	(Clause 23) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	88 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1094	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1095	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Marking and instructions	(Clause 7) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1096	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Mechanical Strength	(Clause 21) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1097	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Moisture Resistance	(Clause 15) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1098	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1099	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Power Input and Current	(Clause 10) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1100	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Protection against access to live parts	(Clause 8) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1101	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Provision for Earthing	(Clause 27) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1102	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Radiation/ toxicity and similar hazard (Verification of CoC)	(Clause 32) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1103	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Resistance to heat and Fire	(Clause 30) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1104	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Resistance to Rusting	(Clause 31) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1105	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Screw and connections	(Clause 28) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1106	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1107	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 89 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1108	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Terminals for external conductors	(Clause 26) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1109	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Transient overvoltages	(Clause 14) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1110	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Floor treatment machines and wet scrubbing machines	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-10:2002/AMD1:2008 EN 60335-2-10:2003/A1:2008
1111	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Abnormal Operation	(Clause 19) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1112	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1113	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Endurance	(Clause 18) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1114	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Heating	(Clause 11) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1115	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Marking and instructions	(Clause 7) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1116	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Mechanical Strength	(Clause 21) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1117	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Moisture Resistance	(Clause 15) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1118	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1119	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Power Input and Current	(Clause 10) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1120	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Protection against access to live parts	(Clause 8) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	90 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1121	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Provision for Earthing	(Clause 27) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1122	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1123	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Resistance to heat and Fire	(Clause 30) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1124	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Resistance to Rusting	(Clause 31) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1125	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Screw and connections	(Clause 28) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1126	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1127	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1128	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Terminals for external conductors	(Clause 26) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1129	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines with or without traction drive, for commercial use	Transient overvoltages	(Clause 14) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1130	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Abnormal Operation	(Clause 19) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1131	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Construction	(Clause 22) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1132	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Endurance	(Clause 18) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1133	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Heating	"(Clause 11) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1134	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Internal Wiring	(Clause 23) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	91 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1135	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1136	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Marking and instructions	(Clause 7) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1137	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Mechanical Strength	(Clause 21) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1138	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Moisture Resistance	(Clause 15) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1139	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1140	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Power Input and Current	(Clause 10) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1141	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Protection against access to live parts	(Clause 8) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1142	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Provision for Earthing	(Clause 27) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1143	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1144	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Resistance to heat and Fire	(Clause 30) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1145	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Resistance to Rusting	(Clause 31) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1146	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Screw and connections	(Clause 28) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1147	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1148	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	92 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1149	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Terminals for external conductors	(Clause 26) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1150	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	floor treatment machines, for commercial use	Transient overvoltages	(Clause 14) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1151	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Terminals for external conductors	(Clause 26) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1152	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Abnormal Operation	(Clause 19) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1153	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1154	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Construction	(Clause 22) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1155	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Endurance	(Clause 18) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1156	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Heating	(Clause 11) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1157	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Internal Wiring	(Clause 23) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1158	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1159	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Marking and instructions	(Clause 7) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 93 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1160	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Mechanical Strength	(Clause 21) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1161	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Moisture Resistance	(Clause 15) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1162	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1163	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Power Input and Current	(Clause 10) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1164	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Protection against access to live parts	(Clause 8) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1165	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Provision for Earthing	(Clause 27) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1166	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1167	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Resistance to heat and Fire	(Clause 30) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1168	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Resistance to Rusting	(Clause 31) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1169	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Screw and connections	(Clause 28) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1170	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 94 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1171	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1172	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Food waste disposers	Transient overvoltages	(Clause 14) IEC 60335-2-16:2002/AMD1:2008/AMD2:2011 EN 60335-2-16:2003/A2:2012
1173	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Abnormal Operation	"(Clause 19) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1174	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1175	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Endurance	"(Clause 18) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1176	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Heating	"(Clause 11) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1177	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1178	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Marking and instructions	"(Clause 7) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1179	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Mechanical Strength	"(Clause 21) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1180	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Moisture Resistance	"(Clause 15) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1181	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	95 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1182	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Power Input and Current	"(Clause 10) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1183	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Provision for Earthing	"(Clause 27) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1184	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1185	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1186	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Resistance to Rusting	"(Clause 31) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1187	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Screw and connections	"(Clause 28) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1188	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1189	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Terminals for external conductors	"(Clause 26) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1190	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	foot warmers and heating mats	Transient overvoltages	"(Clause 14) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1191	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Abnormal Operation	"(Clause 19) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1192	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Clearances and Creepage Distances and solid insulation	"(Clause 29) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1193	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Construction	"(Clause 22) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 96 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1194	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Endurance	"(Clause 18) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1195	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Heating	"(Clause 11) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1196	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Internal Wiring	"(Clause 23) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1197	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1198	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Marking and instructions	"(Clause 7) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1199	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Mechanical Strength	"(Clause 21) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1200	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Moisture Resistance	"(Clause 15) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1201	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1202	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Power Input and Current	"(Clause 10) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1203	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Protection against access to live parts	"(Clause 8) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1204	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Provision for Earthing	"(Clause 27) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1205	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Radiation, toxicity and similar hazards (Verification of CoC)	"(Clause 32) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1206	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1207	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Resistance to Rusting	"(Clause 31) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1208	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Screw and connections	"(Clause 28) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1209	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1210	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1211	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Terminals for external conductors	"(Clause 26) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	97 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1212	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Gas, oil and solid-fuel burning appliances having electrical connections	Transient overvoltages	"(Clause 14) IEC 60335-2-102: 2017, EN 60335-2-102: 2016"
1213	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Abnormal Operation	(Clause 19) IEC 60335-2-9:2008+AMD1:2012+ AMD2:2016 EN 60335-2-9:2003/A13:2010/AC: 2012 IEC 60335-2-9:2019
1214	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-9:2008+AMD1:2012+ AMD2:2016 EN 60335-2-9:2003/A13:2010/AC: 2012 IEC 60335-2-9:2019
1215	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Construction	(Clause 22) IEC 60335-2-9:2008+AMD1:2012+ AMD2:2016 EN 60335-2-9:2003/A13:2010/AC: 2012 IEC 60335-2-9:2019
1216	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Endurance	(Clause 18) IEC 60335-2-9:2008+AMD1:2012+ AMD2:2016 EN 60335-2-9:2003/A13:2010/AC: 2012 IEC 60335-2-9:2019
1217	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Heating	(Clause 11) IEC 60335-2-9:2008+AMD1:2012+ AMD2:2016 EN 60335-2-9:2003/A13:2010/AC: 2012 IEC 60335-2-9:2019
1218	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Internal Wiring	(Clause 23) IEC 60335-2-9:2008+AMD1:2012+ AMD2:2016 EN 60335-2-9:2003/A13:2010/AC: 2012 IEC 60335-2-9:2019
1219	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-9:2008+AMD1:2012+ AMD2:2016 EN 60335-2-9:2003/A13:2010/AC: 2012 IEC 60335-2-9:2019
1220	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Marking and instructions	(Clause 7) IEC 60335-2-9:2008+AMD1:2012+ AMD2:2016 EN 60335-2-9:2003/A13:2010/AC: 2012 IEC 60335-2-9:2019

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 98 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1221	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Mechanical Strength	(Clause 21) IEC 60335-2-9:2008+AMD1:2012+AMD2:2016 EN 60335-2-9:2003/A13:2010/AC:2012 IEC 60335-2-9:2019
1222	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Moisture Resistance	(Clause 15) IEC 60335-2-9:2008+AMD1:2012+AMD2:2016 EN 60335-2-9:2003/A13:2010/AC:2012 IEC 60335-2-9:2019
1223	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-9:2008+AMD1:2012+AMD2:2016 EN 60335-2-9:2003/A13:2010/AC:2012 IEC 60335-2-9:2019
1224	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Power Input and Current	(Clause 10) IEC 60335-2-9:2008+AMD1:2012+AMD2:2016 EN 60335-2-9:2003/A13:2010/AC:2012 IEC 60335-2-9:2019
1225	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Protection against access to live parts	(Clause 8) IEC 60335-2-9:2008+AMD1:2012+AMD2:2016 EN 60335-2-9:2003/A13:2010/AC:2012 IEC 60335-2-9:2019
1226	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Provision for Earthing	(Clause 27) IEC 60335-2-9:2008+AMD1:2012+AMD2:2016 EN 60335-2-9:2003/A13:2010/AC:2012 IEC 60335-2-9:2019
1227	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-9:2008+AMD1:2012+AMD2:2016 EN 60335-2-9:2003/A13:2010/AC:2012 IEC 60335-2-9:2019
1228	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Resistance to heat and Fire	(Clause 30) IEC 60335-2-9:2008+AMD1:2012+AMD2:2016 EN 60335-2-9:2003/A13:2010/AC:2012 IEC 60335-2-9:2019
1229	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Resistance to Rusting	(Clause 31) IEC 60335-2-9:2008+AMD1:2012+AMD2:2016 EN 60335-2-9:2003/A13:2010/AC:2012 IEC 60335-2-9:2019

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 99 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1230	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Screw and connections	(Clause 28) IEC 60335-2-9:2008+AMD1:2012+AMD2:2016 EN 60335-2-9:2003/A13:2010/AC:2012 IEC 60335-2-9:2019
1231	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-9:2008+AMD1:2012+AMD2:2016 EN 60335-2-9:2003/A13:2010/AC:2012 IEC 60335-2-9:2019
1232	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-9:2008+AMD1:2012+AMD2:2016 EN 60335-2-9:2003/A13:2010/AC:2012 IEC 60335-2-9:2019
1233	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Terminals for external conductors	(Clause 26) IEC 60335-2-9:2008+AMD1:2012+AMD2:2016 EN 60335-2-9:2003/A13:2010/AC:2012 IEC 60335-2-9:2019
1234	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	grills, toasters and similar portable cooking appliances	Transient overvoltages	(Clause 14) IEC 60335-2-9:2008+AMD1:2012+AMD2:2016 EN 60335-2-9:2003/A13:2010/AC:2012 IEC 60335-2-9:2019
1235	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuum	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1236	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Abnormal Operation	"(Clause 19) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1237	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Clearances and Creepage Distances and solid insulation	"(Clause 29) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1238	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Construction	"(Clause 22) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1239	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Endurance	"(Clause 18) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1240	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Heating	"(Clause 11) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1241	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Internal Wiring	"(Clause 23) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 100 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1242	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1243	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Marking and instructions	"(Clause 7) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1244	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Mechanical Strength	"(Clause 21) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1245	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Moisture Resistance	"(Clause 15) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1246	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1247	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Power Input and Current	"(Clause 10) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1248	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Protection against access to live parts	"(Clause 8) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1249	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Provision for Earthing	"(Clause 27) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1250	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Radiation, toxicity and similar hazards (Verification of CoC)	"(Clause 32) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1251	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1252	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Resistance to Rusting	"(Clause 31) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1253	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Screw and connections	"(Clause 28) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1254	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1255	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1256	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Terminals for external conductors	"(Clause 26) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1257	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Hand-held mains-operated garden blowers, vacuums and blower vacuums	Transient overvoltages	"(Clause 14) IEC 60335-2-100: 2002, EN 60335-2-100: 2002"
1258	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Construction	"(Clause 22) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 101 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1259	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Endurance	"(Clause 18) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1260	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1261	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Abnormal Operation	"(Clause 19) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1262	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	"(Clause 29) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1263	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Heating	"(Clause 11) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1264	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Internal Wiring	"(Clause 23) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1265	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1266	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Marking and instructions	"(Clause 7) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1267	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Mechanical Strength	"(Clause 21) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1268	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Moisture Resistance	"(Clause 15) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1269	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Power Input and Current	"(Clause 10) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1270	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Protection against access to live parts	"(Clause 8) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1271	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Provision for Earthing	"(Clause 27) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 102 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1272	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1273	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1274	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Resistance to Rusting	"(Clause 31) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1275	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Screw and connections	"(Clause 28) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1276	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1277	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1278	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Terminals for external conductors	"(Clause 26) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1279	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Heated carpets and for heating units for room heating installed under removable floor coverings	Transient overvoltages	"(Clause 14) IEC 60335-2-106: 2007, IEC 60335-2-106:2021, EN 60335-2-106: 2007"
1280	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Abnormal Operation	"(Clause 19) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1281	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1282	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Construction	"(Clause 22) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1283	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Endurance	"(Clause 18) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1284	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Heating	"(Clause 11) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1285	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Internal Wiring	"(Clause 23) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 103 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1286	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1287	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Marking and instructions	"(Clause 7) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1288	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Mechanical Strength	"(Clause 21) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1289	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Moisture Resistance	"(Clause 15) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1290	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1291	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Power Input and Current	"(Clause 10) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1292	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Protection against access to live parts	"(Clause 8) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1293	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Provision for Earthing	"(Clause 27) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1294	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1295	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1296	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Resistance to Rusting	"(Clause 31) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1297	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Screw and connections	"(Clause 28) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1298	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1299	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 104 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1300	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Terminals for external conductors	"(Clause 26) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1301	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	heated gullies for roof drainage	Transient overvoltages	"(Clause 14) IEC 60335-2-83:2001/AMD1: 2008, EN 60335-2-83:2002/A1: 2008"
1302	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Abnormal Operation	"(Clause 19) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1303	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1304	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Construction	"(Clause 22) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1305	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Endurance	"(Clause 18) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1306	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Heating	"(Clause 11) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1307	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1308	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Marking and instructions	"(Clause 7) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1309	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Mechanical Strength	"(Clause 21) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1310	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Moisture Resistance	"(Clause 15) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1311	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1312	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Power Input and Current	"(Clause 10) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 105 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1313	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Protection against access to live parts	"(Clause 8) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1314	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Provision for Earthing	"(Clause 27) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1315	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1316	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1317	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Resistance to Rusting	"(Clause 31) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1318	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Screw and connections	"(Clause 28) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1319	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1320	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1321	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Terminals for external conductors	"(Clause 26) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1322	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	high pressure cleaners and steam cleaners	Transient overvoltages	"(Clause 14) IEC 60335-2-79: 2016, IEC 60335-2-79:2021, EN 60335-2-79: 2012"
1323	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Heating	"(Clause 11) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	106 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1324	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Internal Wiring	"(Clause 23) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1325	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Power Input and Current	"(Clause 10) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1326	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Protection against access to live parts	"(Clause 8) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1327	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Provision for Earthing	"(Clause 27) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 107 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1328	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Terminals for external conductors	"(Clause 26) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1329	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Mechanical Strength	"(Clause 21) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1330	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Moisture Resistance	"(Clause 15) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1331	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Needle flame test	"(Annex E) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	108 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1332	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Resistance to Rusting	"(Clause 31) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1333	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Abnormal Operation	"(Clause 19) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, (Clause 19.1, 19.2, 19.3, 19.4, 19.5, 19.6, 19.7, 19.8,19.9, 19.10, 19.11, 19.12, 19.13) IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1334	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Ageing test on motors	"(Annex C) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1335	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Capacitors	"(Annex F) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 109 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1336	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Clearances and Creepage Distances and solid insulation	"(Clause 29) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1337	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Construction	"(Clause 22) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1338	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Dry Heat	"(Clause 29.3.3) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1339	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Endurance	"(Clause 18) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 110 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1340	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1341	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1342	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Marking and instructions	"(Clause 7) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1343	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 111 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1344	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Proof tracking test	"(Annex N) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1345	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1346	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Safety isolating transformers	"(Annex G) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1347	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Screw and connections	"(Clause 28) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	112 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1348	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1349	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1350	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Thermal Motor Protectors	"(Annex D) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1351	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances	Transient overvoltages	"(Clause 14) IEC 60335-1:2020, IEC 60335-1:2010+AMD1:2013+AMD2:2016, EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A14:2019 + A2 : 2019+A15:2021, IS 302 : Part 1 : 2008 +A1:2009+A2:2013+A3:2014 +A4:2014"
1352	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Power Input and Current	"(Clause 10) IEC 60335-2-2:2019+AMD1:2012+AMD2:2016 EN 60335-2-2:2010/A1:2013 "

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 113 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1353	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Abnormal Operation	"(Clause 19) IEC 60335-2-2:2019+AMD1:2012+AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1354	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	"(Clause 29) IEC 60335-2-2:2019+AMD1:2012+AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1355	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Construction	"(Clause 22) IEC 60335-2-2:2019+AMD1:2012+AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1356	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Endurance	"(Clause 18) IEC 60335-2-2:2019+AMD1:2012+AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1357	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Heating	"(Clause 11) IEC 60335-2-2:2019+AMD1:2012+AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1358	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Internal Wiring	"(Clause 23) IEC 60335-2-2:2019+AMD1:2012+AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1359	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-2:2019+AMD1:2012+AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1360	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Marking and instructions	"(Clause 7) IEC 60335-2-2:2019+AMD1:2012+AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1361	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Mechanical Strength	"(Clause 21) IEC 60335-2-2:2019+AMD1:2012+AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1362	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Moisture Resistance	"(Clause 15) IEC 60335-2-2:2019+AMD1:2012+AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1363	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-2:2019+AMD1:2012+AMD2:2016 EN 60335-2-2:2010/A1:2013 "

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	114 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1364	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Protection against access to live parts	"(Clause 8) IEC 60335-2-2:2019+AMD1:2012+ AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1365	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Provision for Earthing	"(Clause 27) IEC 60335-2-2:2019+AMD1:2012+ AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1366	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-2:2019+AMD1:2012+ AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1367	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-2:2019+AMD1:2012+ AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1368	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Resistance to Rusting	"(Clause 31) IEC 60335-2-2:2019+AMD1:2012+ AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1369	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Screw and connections	"(Clause 28) IEC 60335-2-2:2019+AMD1:2012+ AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1370	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-2:2019+AMD1:2012+ AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1371	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-2:2019+AMD1:2012+ AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1372	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Terminals for external conductors	"(Clause 26) IEC 60335-2-2:2019+AMD1:2012+ AMD2:2016 EN 60335-2-2:2010/A1:2013 "
1373	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances	Transient overvoltages	"(Clause 14) IEC 60335-2-2:2019+AMD1:2012+ AMD2:2016 EN 60335-2-2:2010/A1:2013 "

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 115 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1374	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Abnormal Operation	(Clause 19) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1375	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1376	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Construction	(Clause 22) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1377	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Endurance	(Clause 18) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1378	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Heating	(Clause 11) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1379	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Internal Wiring	(Clause 23) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1380	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	116 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1381	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Marking and instructions	(Clause 7) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1382	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Mechanical Strength	(Clause 21) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1383	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Moisture Resistance	(Clause 15) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1384	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1385	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Power Input and Current	(Clause 10) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1386	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Protection against access to live parts	(Clause 8) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1387	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Provision for Earthing	(Clause 27) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 117 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1388	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1389	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Resistance to heat and Fire	(Clause 30) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1390	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Resistance to Rusting	(Clause 31) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1391	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Screw and connections	(Clause 28) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1392	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1393	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
1394	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-97: Particular requirements for drives for shutters, awnings, blinds and similar equipment	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
1395	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-97: Particular requirements for drives for shutters, awnings, blinds and similar equipment	Terminals for external conductors	"(Clause 26) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"
1396	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-97: Particular requirements for drives for shutters, awnings, blinds and similar equipment	Transient overvoltages	"(Clause 14) IEC 60335-2-97: 2016+AMD1:2019, EN 60335-2-97:2006/A12: 2015"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 118 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1397	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Abnormal Operation	"(Clause 19) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1398	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	"(Clause 29) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1399	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Construction	"(Clause 22) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1400	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Endurance	"(Clause 18) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1401	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Heating	"(Clause 11) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1402	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Internal Wiring	"(Clause 23) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1403	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1404	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Marking and instructions	"(Clause 7) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1405	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Mechanical Strength	"(Clause 21) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1406	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Moisture Resistance	"(Clause 15) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1407	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 119 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1408	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Power Input and Current	"(Clause 10) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1409	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Protection against access to live parts	"(Clause 8) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1410	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Provision for Earthing	"(Clause 27) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1411	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1412	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1413	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Resistance to Rusting	"(Clause 31) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1414	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Screw and connections	"(Clause 28) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1415	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1416	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1417	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Terminals for external conductors	"(Clause 26) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"
1418	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers	Transient overvoltages	"(Clause 14) IEC 60335-2-98:2002+AMD1:2004 +AMD2:2008, EN 60335-2-98:2003/A2: 2008"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	120 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1419	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Abnormal Operation	"(Clause 19) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1420	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	"(Clause 29) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1421	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Construction	"(Clause 22) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1422	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Endurance	"(Clause 18) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1423	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Heating	"(Clause 11) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1424	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Internal Wiring	"(Clause 23) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1425	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1426	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Marking and instructions	"(Clause 7) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1427	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Mechanical Strength	"(Clause 21) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1428	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Moisture Resistance	"(Clause 15) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1429	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1430	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Power Input and Current	"(Clause 10) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1431	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Protection against access to live parts	"(Clause 8) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 121 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1432	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Provision for Earthing	"(Clause 27) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1433	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1434	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1435	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Resistance to Rusting	"(Clause 31) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1436	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Screw and connections	"(Clause 28) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1437	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1438	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1439	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Terminals for external conductors	"(Clause 26) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1440	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods	Transient overvoltages	"(Clause 14) IEC 60335-2-99:2003/AMD1: 2017, EN 60335-2-99: 2003"
1441	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Abnormal Operation	"(Clause 19) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1442	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1443	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Construction	"(Clause 22) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1444	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Endurance	"(Clause 18) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1445	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Heating	"(Clause 11) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1446	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Internal Wiring	"(Clause 23) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 122 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1447	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1448	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Marking and instructions	"(Clause 7) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1449	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Mechanical Strength	"(Clause 21) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1450	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Moisture Resistance	"(Clause 15) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1451	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1452	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Power Input and Current	"(Clause 10) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1453	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Protection against access to live parts	"(Clause 8) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1454	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Provision for Earthing	"(Clause 27) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1455	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1456	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1457	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Resistance to Rusting	"(Clause 31) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1458	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Screw and connections	"(Clause 28) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1459	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1460	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1461	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Terminals for external conductors	"(Clause 26) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1462	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	humidifiers intended for use with heating, ventilation, or air-conditioning systems	Transient overvoltages	"(Clause 14) IEC 60335-2-88: 2002, EN 60335-2-88: 2002"
1463	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Abnormal Operation	(Clause 19) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	123 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1464	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1465	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Construction	(Clause 22) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1466	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Endurance	(Clause 18) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1467	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Heating	(Clause 11) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1468	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1469	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Marking and instructions	(Clause 7) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1470	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Moisture Resistance	(Clause 15) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1471	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1472	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Power Input and Current	(Clause 10) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1473	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Protection against access to live parts	(Clause 8) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1474	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Provision for Earthing	(Clause 27) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1475	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1476	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Resistance to heat and Fire	(Clause 30) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1477	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Resistance to Rusting	(Clause 31) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 124 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1478	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Screw and connections	(Clause 28) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1479	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	insect killers	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1480	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Insect killers	Terminals for external conductors	(Clause 26) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1481	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Insect killers	Transient overvoltages	(Clause 14) IEC 60335-2-59:2002/AMD2:2009, EN 60335-2-59:2003+A2:2009
1482	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Moisture Resistance	(Clause 15) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1483	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1484	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Power Input and Current	(Clause 10) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1485	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Protection against access to live parts	(Clause 8) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1486	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Provision for Earthing	(Clause 27) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1487	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1488	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Resistance to heat and Fire	(Clause 30) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1489	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Resistance to Rusting	(Clause 31) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1490	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Screw and connections	(Clause 28) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1491	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 125 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1492	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1493	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Terminals for external conductors	(Clause 26) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1494	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Transient overvoltages	(Clause 14) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1495	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Abnormal Operation	(Clause 19) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1496	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1497	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Construction	(Clause 22) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1498	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Endurance	(Clause 18) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1499	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Heating	(Clause 11) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1500	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Internal Wiring	(Clause 23) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1501	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1502	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Marking and instructions	(Clause 7) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1503	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Instantaneous water heaters	Mechanical Strength	(Clause 21) IEC 60335-2-35:2012+A1:2016+A2 :2020, EN 60335-2-35: 2016
1504	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Ironers	Abnormal Operation	(Clause 19) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 126 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1505	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Ironers	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1506	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Construction	(Clause 22) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1507	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Endurance	(Clause 18) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1508	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Heating	(Clause 11) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1509	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Internal Wiring	(Clause 23) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1510	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1511	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Marking and instructions	(Clause 7) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1512	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Mechanical Strength	(Clause 21) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1513	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Moisture Resistance	(Clause 15) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 127 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1514	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1515	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Power Input and Current	(Clause 10) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1516	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Protection against access to live parts	(Clause 8) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1517	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Provision for Earthing	(Clause 27) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1518	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1519	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Resistance to heat and Fire	(Clause 30) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1520	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Resistance to Rusting	(Clause 31) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1521	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Screw and connections	(Clause 28) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1522	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	128 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1523	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1524	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Terminals for external conductors	(Clause 26) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1525	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ironers	Transient overvoltages	(Clause 14) IEC 60335-2-44:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-44:2021, EN 60335-2-44:2002/A2:2012
1526	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Abnormal Operation	(Clause 19) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1527	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1528	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Construction	(Clause 22) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1529	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Endurance	(Clause 18) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1530	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Heating	(Clause 11) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994 IS 302-2-14:2009
1531	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Internal Wiring	(Clause 23) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1532	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 129 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1533	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Marking and instructions	(Clause 7) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1534	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Mechanical Strength	(Clause 21) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1535	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Moisture Resistance	(Clause 15) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1536	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1537	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Power Input and Current	(Clause 10) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994 IS 302-2-14:2009
1538	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Protection against access to live parts	(Clause 8) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1539	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Provision for Earthing	(Clause 27) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1540	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1541	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	kitchen machines	Resistance to heat and Fire	(Clause 30) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1542	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Kitchen machines	Resistance to Rusting	(Clause 31) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	130 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1543	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	kitchen machines	Screw and connections	(Clause 28) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1544	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	kitchen machines	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1545	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	kitchen machines	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1546	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	kitchen machines	Terminals for external conductors	(Clause 26) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1547	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	kitchen machines	Transient overvoltages	(Clause 14) IEC 60335-2-14:2016+AMD1:2019 EN 60335-2-14:2006/A12:2016 IS 302-2-14:1994
1548	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Abnormal Operation	"(Clause 19) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1549	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	"(Clause 29) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1550	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Construction	"(Clause 22) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1551	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Endurance	"(Clause 18) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	131 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1552	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Heating	"(Clause 11) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1553	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Internal Wiring	"(Clause 23) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1554	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1555	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Marking and instructions	"(Clause 7) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1556	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Mechanical Strength	"(Clause 21) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1557	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Moisture Resistance	"(Clause 15) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1558	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1559	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Power Input and Current	"(Clause 10) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1560	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Protection against access to live parts	"(Clause 8) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 132 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1561	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Provision for Earthing	"(Clause 27) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1562	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1563	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1564	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Resistance to Rusting	"(Clause 31) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1565	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Screw and connections	"(Clause 28) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1566	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1567	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1568	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Terminals for external conductors	"(Clause 26) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"
1569	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Massage appliances	Transient overvoltages	"(Clause 14) IEC 60335-2-32:2002+AMD1:2008 +AMD2:2013 IEC 60335-2-32:2019 EN 60335-2-32:2003/A2: 2015"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 133 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1570	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Leakage Current	IS 11676 (Clause 9) : 1995
1571	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Determination of microwave power output	"(Clause 8) IEC 60705:2010+AMD1:2014 +AMD2: : 2018, EN 60705 : 2015"
1572	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Efficiency	"(Clause 9) IEC 60705:2010+AMD1:2014 +AMD2: : 2018, EN 60705 : 2015"
1573	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Electric Strength	(Clause 9) IS 11676: 1995
1574	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Electric Strength	IS 11676 (Clause 9) : 1995
1575	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Energy consumption for the microwave function	"(Clause 14) IEC 60705:2010+AMD1:2014 +AMD2: : 2018, EN 60705 : 2015"
1576	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Insulation Resistance	(Clause 9) IS 11676: 1995
1577	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Insulation Resistance	IS 11676 (Clause 9) : 1995
1578	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Leakage Current	(Clause 9) IS 11676: 1995
1579	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Marking Test	IS 11676 (Clause 8.1): 1995
1580	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Mechanical Strength	IS 11676 (Clause 9) : 1995
1581	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Moisture Resistance	IS 11676 (Clause 9) : 1995
1582	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Protection Against Electric Shock	IS 11676 (Clause 9) : 1995
1583	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Provision for Earthing	IS 11676 (Clause 9) : 1995
1584	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Standby Power Consumption	"(Clause No.15) IEC 60705:2010+AMD1:2014 +AMD2: : 2018, EN 60705 : 2015"
1585	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Standby Power Consumption	(Clause No. 5) IEC 62301 : 2011

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 134 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1586	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave Ovens	Visual Inspection	IS 11676(Clause No. 9.1): 1995
1587	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Abnormal Operation	(Clause 19) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1588	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Thermal Motor Protectors	(Annex D) IS 302-2-25:2014
1589	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Abnormal Operation	(Clause 19.1, 19.2, 19.3, 19.4, 19.5, 19.6, 19.7, 19.8, 19.9, 19.10, 19.11, 19.12, 19.13, 19.101, 19.102, 19.103, 19.104) IS 302-2-25:2014
1590	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Ageing Test on Motors	(Annex C) IS 302-2-25:2014
1591	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1592	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Construction	(Clause 22) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1593	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Dry Heat	(Clause 29.3.3) IS 302-2-25:2014
1594	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Endurance	(Clause 18) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1595	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	ENVIRONMENTAL TESTING - TEST Kb: SALT MIST, CYCLIC (SODIUM CHLORIDE SOLUTION)	(Annex CC) IS 302-2-25:2014

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	135 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1596	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Heating	(Clause 11) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1597	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Internal Wiring	(Clause 23) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1598	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Leakage Current and Electric strength	(Clause 13 & Clause 16) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1599	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Marking and instructions	(Clause 7) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1600	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Mechanical Strength	(Cl 21.101, 21.102, 21.103, 21.104, 21.105) IS 302-2-25:2014
1601	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Mechanical Strength	(Clause 21) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1602	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Moisture Resistance	(Clause 15) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5688	**Page No**	136 of 514
Validity	24/04/2022 to 23/04/2024	**Last Amended on**	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1603	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1604	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Power Input and Current	(Clause 10) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1605	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Protection against access to live parts	(Clause 8) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1606	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Provision for Earthing	(Clause 27) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1607	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1608	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Resistance to heat and Fire	(Clause 30) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 137 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1609	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Resistance to Rusting	(Clause 31) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1610	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Screw and connections	(Clause 28) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1611	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1612	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1613	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Supply Connection and External Flexible cords	(Clause 25.15, 25.16,25.17) IS 302-2-25:2014
1614	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Supply Connection and External Flexible cords	(Clause 25.25) IS 302-2-25:2014
1615	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Terminals for external conductors	(Clause 26) IEC 60335-2-25:2010+AMD1:2014 +AMD2:2015 IEC 60335-2-25:2020 EN 60335-2-25: 2012 Amd 1 : 2015, Amd 2:2016 IS 302-2-25:2014
1616	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Terminals for external conductors	(Clause 26.5, 26.6 & 26.9, 26.11) IS 302-2-25:2014
1617	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Microwave ovens, including combination microwave ovens	Transient overvoltages	(Clause 14) IS 302-2-25:2014

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	138 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1618	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Abnormal Operation	"(Clause 19) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1619	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1620	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Construction	"(Clause 22) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1621	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Endurance	"(Clause 18) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1622	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Heating	"(Clause 11) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1623	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Internal Wiring	"(Clause 23) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1624	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1625	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Marking and instructions	"(Clause 7) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1626	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Mechanical Strength	"(Clause 21) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1627	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1628	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Power Input and Current	"(Clause 10) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1629	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Protection against access to live parts	"(Clause 8) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1630	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Provision for Earthing	"(Clause 27) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1631	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 139 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1632	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1633	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Resistance to Rusting	"(Clause 31) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1634	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Screw and connections	"(Clause 28) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1635	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1636	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1637	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Terminals for external conductors	"(Clause 26) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1638	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	milking machines	Transient overvoltages	"(Clause 14) IEC 60335-2-70:2002/AMD2:2013, EN 60335-2-70:2002/A1:2007"
1639	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Internal Wiring	(Clause 23) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013
1640	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013
1641	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Construction	(Clause 22) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013
1642	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013
1643	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Marking and instructions	(Clause 7) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 140 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1644	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Mechanical Strength	(Clause 21) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013
1645	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Moisture Resistance	(Clause 15) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013
1646	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013
1647	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Protection against access to live parts	(Clause 8) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013
1648	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Provision for Earthing	(Clause 27) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013
1649	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Resistance to heat and Fire	(Clause 30) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013
1650	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Resistance to Rusting	(Clause 31) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013
1651	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Screw and connections	(Clause 28) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013
1652	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013
1653	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013
1654	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Terminals for external conductors	(Clause 26) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 141 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1655	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Motor-compressors	Transient overvoltages	(Clause 14) IEC 60335-2-34:2012+AMD1:2015 +AMD2:2016, IEC 60335-2-34: 2021, EN 60335-2-34: 2013
1656	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multi functional shower cabinets	Internal Wiring	"(Clause 23) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1657	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multi functional shower cabinets	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1658	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multi functional shower cabinets	Marking and instructions	"(Clause 7) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1659	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Abnormal Operation	"(Clause 19) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1660	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Clearances and Creepage Distances and solid insulation	"(Clause 29) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1661	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Construction	"(Clause 22) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1662	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Endurance	"(Clause 18) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1663	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Heating	"(Clause 11) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1664	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Mechanical Strength	"(Clause 21) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1665	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Moisture Resistance	"(Clause 15) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1666	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1667	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Power Input and Current	"(Clause 10) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 142 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1668	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Protection against access to live parts	"(Clause 8) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1669	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Provision for Earthing	"(Clause 27) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1670	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1671	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1672	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Resistance to Rusting	"(Clause 31) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1673	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Screw and connections	"(Clause 28) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1674	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1675	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1676	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Terminals for external conductors	"(Clause 26) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1677	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Multifunctional shower cabinets	Transient overvoltages	"(Clause 14) IEC 60335-2-105: 2016+AMD1:2019, EN 60335-2-105:2005/A11: 2010"
1678	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	nts for whirlpool baths and whirlpool spas	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
1679	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	ommercial electric forced convection ovens, steam cookers and steam-convection ovens	Transient overvoltages	"(Clause 14) IEC 60335-2-42:2002/AMD2:2017, EN 60335-2-42:2003/A11: 2012"
1680	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	or air-cleaning appliances	Resistance to heat and Fire	(Clause 30) IEC 60335-2-65:2002/AMD2:2015, EN 60335-2-65:2003/A11:2012

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 143 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1681	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	or floor treatment machines with or without traction drive, for commercial use	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-72: 2016, IEC 60335-2-72:2021, EN 60335-2-72: 2012
1682	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Abnormal Operation	"(Clause 19) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1683	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1684	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Construction	"(Clause 22) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1685	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Endurance	"(Clause 18) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1686	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Heating	"(Clause 11) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1687	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Internal Wiring	"(Clause 23) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1688	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1689	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Marking and instructions	"(Clause 7) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1690	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Mechanical Strength	"(Clause 21) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1691	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Moisture Resistance	"(Clause 15) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1692	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1693	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Protection against access to live parts	"(Clause 8) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 144 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1694	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Provision for Earthing	"(Clause 27) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1695	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1696	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1697	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Resistance to Rusting	"(Clause 31) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1698	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Screw and connections	"(Clause 28) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1699	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1700	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1701	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Terminals for external conductors	"(Clause 26) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1702	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	outdoor barbecues	Transient overvoltages	"(Clause 14) IEC 60335-2-78:2002/AMD1: 2008, EN 60335-2-78:2003/A1: 2008"
1703	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Abnormal Operation	(Clause 19) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1704	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1705	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Construction	(Clause 22) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1706	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Endurance	(Clause 18) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1707	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Heating	(Clause 11) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1708	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-77: 2002, EN 60335-2-77:2010

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 145 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1709	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Marking and instructions	(Clause 7) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1710	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Mechanical Strength	(Clause 21) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1711	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Moisture Resistance	(Clause 15) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1712	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1713	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Power Input and Current	(Clause 10) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1714	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Protection against access to live parts	(Clause 8) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1715	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Provision for Earthing	(Clause 27) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1716	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1717	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Resistance to heat and Fire	(Clause 30) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1718	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Resistance to Rusting	(Clause 31) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1719	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Screw and connections	(Clause 28) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1720	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1721	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1722	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Terminals for external conductors	(Clause 26) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1723	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian controlled mains-operated lawnmowers	Transient overvoltages	(Clause 14) IEC 60335-2-77: 2002, EN 60335-2-77:2010
1724	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Abnormal Operation	(Clause 19) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1725	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1726	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Construction	(Clause 22) IEC 60335-2-92: 2002, EN 60335-2-92: 2005

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 146 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1727	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Endurance	(Clause 18) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1728	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Heating	(Clause 11) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1729	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Internal Wiring	(Clause 23) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1730	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Marking and instructions	(Clause 7) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1731	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Mechanical Strength	(Clause 21) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1732	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Moisture Resistance	(Clause 15) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1733	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1734	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Power Input and Current	(Clause 10) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1735	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Protection against access to live parts	(Clause 8) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1736	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Provision for Earthing	(Clause 27) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1737	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1738	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Resistance to heat and Fire	(Clause 30) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1739	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Resistance to Rusting	(Clause 31) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1740	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Screw and connections	(Clause 28) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1741	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1742	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1743	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Terminals for external conductors	(Clause 26) IEC 60335-2-92: 2002, EN 60335-2-92: 2005
1744	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	pedestrian-controlled mains-operated lawn scarifiers and aerators	Transient overvoltages	(Clause 14) IEC 60335-2-92: 2002, EN 60335-2-92: 2005

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	147 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1745	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Abnormal Operation	(Clause 19) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1746	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Construction	(Clause 22) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1747	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Endurance	(Clause 18) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1748	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Heating	(Clause 11) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1749	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Internal Wiring	(Clause 23) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1750	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1751	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Marking and instructions	(Clause 7) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1752	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Mechanical Strength	(Clause 21) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1753	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Moisture Resistance	(Clause 15) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1754	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1755	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Power Input and Current	(Clause 10) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	148 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1756	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Provision for Earthing	(Clause 27) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1757	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1758	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Resistance to heat and Fire	(Clause 30) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1759	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Resistance to Rusting	(Clause 31) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1760	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Screw and connections	(Clause 28) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1761	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1762	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1763	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Terminals for external conductors	(Clause 26) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1764	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable heating tools and similar appliances	Transient overvoltages	(Clause 14) IEC 60335-2-45:2002/AMD1:2008/AMD2:2011, EN 60335-2-45:2002/A2: 2012
1765	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Abnormal Operation	"(Clause 19) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1766	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	149 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1767	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Construction	"(Clause 22) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1768	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Endurance	"(Clause 18) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1769	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Heating	"(Clause 11) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1770	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Internal Wiring	"(Clause 23) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1771	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1772	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Marking and instructions	"(Clause 7) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1773	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Mechanical Strength	"(Clause 21) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1774	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Moisture Resistance	"(Clause 15) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1775	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1776	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Power Input and Current	"(Clause 10) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1777	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Protection against access to live parts	"(Clause 8) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1778	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Provision for Earthing	"(Clause 27) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1779	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1780	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	150 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1781	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Resistance to Rusting	"(Clause 31) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1782	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Screw and connections	"(Clause 28) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1783	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1784	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1785	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	portable immersion heaters	Terminals for external conductors	"(Clause 26) IEC 60335-2-74:2002/AMD2 :2009, EN 60335-2-74:2003/A2 :2009"
1786	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Abnormal Operation	"(Clause 19) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1787	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1788	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Construction	"(Clause 22) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1789	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Endurance	"(Clause 18) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1790	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Heating	"(Clause 11) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1791	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Internal Wiring	"(Clause 23) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1792	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1793	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Marking and instructions	"(Clause 7) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1794	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Moisture Resistance	"(Clause 15) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	151 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1795	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1796	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Protection against access to live parts	"(Clause 8) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1797	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Provision for Earthing	"(Clause 27) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1798	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1799	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1800	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Resistance to Rusting	"(Clause 31) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1801	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1802	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1803	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Terminals for external conductors	"(Clause 26) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1804	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	projectors and similar appliances	Transient overvoltages	"(Clause 14) IEC 60335-2-56:2002/AMD2:2014, EN 60335-2-56:2003/A2:2014"
1805	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	r floor treatment machines, for commercial use	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-67:2012/AMD1:2016, EN 60335-2-67:2012
1806	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	r foot warmers and heating mats	Construction	"(Clause 22) IEC 60335-2-81:2015/AMD1: 2017/AMD2:2020, EN 60335-2-81:2003/A2: 2012"
1807	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Abnormal Operation	"(Clause 19) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 152 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1808	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	"(Clause 29) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1809	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Construction	"(Clause 22) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1810	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Endurance	"(Clause 18) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1811	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Heating	"(Clause 11) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1812	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Internal Wiring	"(Clause 23) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1813	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1814	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Marking and instructions	"(Clause 7) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1815	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Mechanical Strength	"(Clause 21) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1816	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Moisture Resistance	"(Clause 15) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1817	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1818	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Power Input and Current	"(Clause 10) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 153 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1819	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Protection against access to live parts	"(Clause 8) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1820	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Provision for Earthing	"(Clause 27) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1821	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1822	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1823	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Resistance to Rusting	"(Clause 31) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1824	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Screw and connections	"(Clause 28) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1825	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1826	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1827	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Terminals for external conductors	"(Clause 26) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"
1828	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Range hoods and other cooking fume extractors	Transient overvoltages	"(Clause 14) IEC 60335-2-31:2012/AMD1:2016/AMD2:2018 EN 60335-2-31: 2014"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 154 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1829	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Abnormal Operation	(Clause 19) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1830	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1831	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Construction	(Clause 22) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1832	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Endurance	(Clause 18) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1833	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Heating	(Clause 11) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1834	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Internal Wiring	(Clause 23) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1835	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1836	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Marking and instructions	(Clause 7) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1837	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Mechanical Strength	(Clause 21) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 155 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1838	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Moisture Resistance	(Clause 15) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1839	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1840	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Power Input and Current	(Clause 10) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1841	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Protection against access to live parts	(Clause 8) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1842	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Provision for Earthing	(Clause 27) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1843	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1844	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Resistance to heat and Fire	(Clause 30) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1845	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Resistance to Rusting	(Clause 31) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1846	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Screw and connections	(Clause 28) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	156 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1847	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1848	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1849	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Terminals for external conductors	(Clause 26) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1850	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Refrigerating appliances, ice-cream appliances and ice makers	Transient overvoltages	(Clause 14) IEC 60335-2-24:2010+AMD1:2012 +AMD2:2017 IEC 60335-2-24:2020 EN 60335-2-24: 2010
1851	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Abnormal Operation	(Clause 19) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1852	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1853	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Construction	(Clause 22) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1854	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Endurance	(Clause 18) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1855	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Heating	(Clause 11) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1856	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Internal Wiring	(Clause 23) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 157 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1857	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1858	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Marking and instructions	(Clause 7) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1859	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Mechanical Strength	(Clause 21) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1860	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Moisture Resistance	(Clause 15) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1861	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1862	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Power Input and Current	(Clause 10) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1863	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Protection against access to live parts	(Clause 8) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1864	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Provision for Earthing	(Clause 27) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1865	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1866	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Resistance to heat and Fire	(Clause 30) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1867	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Resistance to Rusting	(Clause 31) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 158 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1868	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Screw and connections	(Clause 28) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1869	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1870	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1871	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Terminals for external conductors	(Clause 26) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1872	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Room heaters	Transient overvoltages	(Clause 14) IEC 60335-2-30:2009/AMD1: 2016/AMD2:2021 EN 60335-2-30:2009/AC: 2014
1873	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Abnormal Operation	"(Clause 19) IEC 60335-2-53:2011+A12017+A2: 2021, EN 60335-2-53:2011"
1874	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-53:2011+A12017+A2: 2021, EN 60335-2-53:2011"
1875	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Construction	"(Clause 22) IEC 60335-2-53:2011+A12017+A2: 2021, EN 60335-2-53:2011"
1876	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Endurance	"(Clause 18) IEC 60335-2-53:2011+A12017+A2: 2021, EN 60335-2-53:2011"
1877	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Heating	"(Clause 11) IEC 60335-2-53:2011+A12017+A2: 2021, EN 60335-2-53:2011"
1878	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Internal Wiring	"(Clause 23) IEC 60335-2-53:2011+A12017+A2: 2021, EN 60335-2-53:2011"
1879	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-53:2011+A12017+A2: 2021, EN 60335-2-53:2011"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5688	**Page No**	159 of 514
Validity	24/04/2022 to 23/04/2024	**Last Amended on**	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1880	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Marking and instructions	"(Clause 7) IEC 60335-2-53:2011+A12017+A2:2021, EN 60335-2-53:2011"
1881	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Mechanical Strength	"(Clause 21) IEC 60335-2-53:2011+A12017+A2:2021, EN 60335-2-53:2011"
1882	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Moisture Resistance	"(Clause 15) IEC 60335-2-53:2011+A12017+A2:2021, EN 60335-2-53:2011"
1883	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-53:2011+A12017+A2:2021, EN 60335-2-53:2011"
1884	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Power Input and Current	"(Clause 10) IEC 60335-2-53:2011+A12017+A2:2021, EN 60335-2-53:2011"
1885	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Protection against access to live parts	"(Clause 8) IEC 60335-2-53:2011+A12017+A2:2021, EN 60335-2-53:2011"
1886	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Provision for Earthing	"(Clause 27) IEC 60335-2-53:2011+A12017+A2:2021, EN 60335-2-53:2011"
1887	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-53:2011+A12017+A2:2021, EN 60335-2-53:2011"
1888	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-53:2011+A12017+A2:2021, EN 60335-2-53:2011"
1889	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Resistance to Rusting	"(Clause 31) IEC 60335-2-53:2011+A12017+A2:2021, EN 60335-2-53:2011"
1890	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Screw and connections	"(Clause 28) IEC 60335-2-53:2011+A12017+A2:2021, EN 60335-2-53:2011"
1891	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-53:2011+A12017+A2:2021, EN 60335-2-53:2011"
1892	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-53:2011+A12017+A2:2021, EN 60335-2-53:2011"
1893	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Terminals for external conductors	"(Clause 26) IEC 60335-2-53:2011+A12017+A2:2021, EN 60335-2-53:2011"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5688	**Page No**	160 of 514
Validity	24/04/2022 to 23/04/2024	**Last Amended on**	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1894	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	sauna heating appliances and infrared cabins	Transient overvoltages	"(Clause 14) IEC 60335-2-53:2011+A12017+A2: 2021, EN 60335-2-53:2011"
1895	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Abnormal Operation	(Clause 19) IEC 60335-2-94: 2008
1896	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-94: 2008
1897	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Construction	(Clause 22) IEC 60335-2-94: 2008
1898	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Endurance	(Clause 18) IEC 60335-2-94: 2008
1899	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Heating	(Clause 11) IEC 60335-2-94: 2008
1900	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Internal Wiring	(Clause 23) IEC 60335-2-94: 2008
1901	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-94: 2008
1902	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Mechanical Strength	(Clause 21) IEC 60335-2-94: 2008
1903	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Moisture Resistance	(Clause 15) IEC 60335-2-94: 2008
1904	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-94: 2008
1905	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Power Input and Current	(Clause 10) IEC 60335-2-94: 2008
1906	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Protection against access to live parts	(Clause 8) IEC 60335-2-94: 2008
1907	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Provision for Earthing	(Clause 27) IEC 60335-2-94: 2008
1908	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-94: 2008
1909	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Resistance to heat and Fire	(Clause 30) IEC 60335-2-94: 2008
1910	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Resistance to Rusting	(Clause 31) IEC 60335-2-94: 2008
1911	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Screw and connections	(Clause 28) IEC 60335-2-94: 2008

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	161 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1912	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-94: 2008
1913	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-94: 2008
1914	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Terminals for external conductors	(Clause 26) IEC 60335-2-94: 2008
1915	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	scissors type grass shears	Transient overvoltages	(Clause 14) IEC 60335-2-94: 2008
1916	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Screw and connections	(Clause 28) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1917	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1918	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Abnormal Operation	(Clause 19) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1919	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1920	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Construction	(Clause 22) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1921	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Endurance	(Clause 18) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1922	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Heating	"(Clause 11) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1923	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Internal Wiring	(Clause 23) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 162 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1924	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1925	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Marking and instructions	(Clause 7) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1926	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Mechanical Strength	(Clause 21) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1927	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Moisture Resistance	(Clause 15) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1928	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1929	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Power Input and Current	(Clause 10) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1930	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Protection against access to live parts	(Clause 8) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1931	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Provision for Earthing	(Clause 27) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1932	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1933	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Resistance to heat and Fire	(Clause 30) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1934	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Resistance to Rusting	(Clause 31) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 163 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1935	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1936	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Terminals for external conductors	(Clause 26) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1937	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Sewing machines	Transient overvoltages	(Clause 14) IEC 60335-2-28:2002/AMD1: 2008 IEC 60335-2-28:2021 EN 60335-2-28:2003/A1: 2008
1938	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Abnormal Operation	(Clause 19) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1939	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1940	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Construction	(Clause 22) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1941	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Endurance	(Clause 18) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1942	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Heating	(Clause 11) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1943	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Internal Wiring	(Clause 23) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1944	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1945	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Marking and instructions	(Clause 7) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1946	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Mechanical Strength	(Clause 21) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1947	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Moisture Resistance	(Clause 15) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 164 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1948	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1949	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Power Input and Current	(Clause 10) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1950	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Protection against access to live parts	(Clause 8) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1951	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Provision for Earthing	(Clause 27) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1952	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1953	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Resistance to heat and Fire	(Clause 30) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1954	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Resistance to Rusting	(Clause 31) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1955	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Screw and connections	(Clause 28) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1956	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1957	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1958	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Terminals for external conductors	(Clause 26) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1959	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	shavers, hair clippers and similar appliances	Transient overvoltages	(Clause 14) IEC 60335-2-8:2012/AMD1: 2015 EN 60335-2-8:2015/A1: 2016
1960	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Spin extractors	Abnormal Operation	"(Clause 19) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 165 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1961	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1962	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Construction	"(Clause 22) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1963	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Endurance	"(Clause 18) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1964	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Heating	"(Clause 11) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1965	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Internal Wiring	"(Clause 23) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1966	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021
1967	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Marking and instructions	"(Clause 7) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 166 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1968	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Mechanical Strength	"(Clause 21) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1969	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Moisture Resistance	"(Clause 15) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1970	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1971	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Power Input and Current	"(Clause 10) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1972	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Protection against access to live parts	"(Clause 8) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1973	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Provision for Earthing	"(Clause 27) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1974	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 167 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1975	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1976	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Spin extractors	Resistance to Rusting	"(Clause 31) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1977	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Screw and connections	"(Clause 28) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1978	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1979	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1980	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Terminals for external conductors	"(Clause 26) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1981	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spin extractors	Transient overvoltages	"(Clause 14) IEC 60335-2-4:2008+AMD1:2012+ AMD2:2017, EN 60335-2-4:2010/A1: 2015, IS 302-2-4:1993+Amd.1:2002 IEC 60335-2-4:2021"
1982	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Abnormal Operation	(Clause 19) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 168 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1983	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
1984	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Construction	(Clause 22) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
1985	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Endurance	(Clause 18) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
1986	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Heating	(Clause 11) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
1987	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Internal Wiring	(Clause 23) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
1988	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
1989	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Marking and instructions	(Clause 7) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
1990	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Mechanical Strength	(Clause 21) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
1991	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Moisture Resistance	(Clause 15) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
1992	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
1993	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Power Input and Current	(Clause 10) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 169 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1994	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Protection against access to live parts	(Clause 8) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
1995	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Provision for Earthing	(Clause 27) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
1996	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
1997	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Resistance to heat and Fire	(Clause 30) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
1998	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Resistance to Rusting	(Clause 31) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
1999	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Screw and connections	(Clause 28) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
2000	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
2001	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Terminals for external conductors	(Clause 26) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
2002	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	spray extraction machines, for commercial use	Transient overvoltages	(Clause 14) IEC 60335-2-68:2012/AMD1:2016, IEC 60335-2-68:2021, EN 60335-2-68: 2012
2003	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Abnormal Operation	"(Clause 19) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	170 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2004	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2005	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Endurance	"(Clause 18) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2006	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Internal Wiring	"(Clause 23) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2007	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2008	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Marking and instructions	"(Clause 7) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2009	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Mechanical Strength	"(Clause 21) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2010	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Moisture Resistance	"(Clause 15) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2011	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2012	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Power Input and Current	"(Clause 10) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	171 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2013	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Protection against access to live parts	"(Clause 8) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2014	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Provision for Earthing	"(Clause 27) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2015	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2016	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2017	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Resistance to Rusting	"(Clause 31) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2018	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Screw and connections	"(Clause 28) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2019	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2020	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2021	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Terminals for external conductors	"(Clause 26) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	172 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2022	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary circulation pumps for heating and service water installations	Transient overvoltages	"(Clause 14) IEC 60335-2-51:2002+AMD1:2008 +AMD2:2011, IEC 60335-2-51:2019, EN 60335-2-51:2003/A2: 2012"
2023	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Abnormal Operation	"(Clause 19) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2024	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2025	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Construction	"(Clause 22) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2026	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Endurance	"(Clause 18) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2027	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Heating	"(Clause 11) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2028	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Internal Wiring	"(Clause 23) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2029	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2030	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Marking and instructions	"(Clause 7) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2031	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Mechanical Strength	"(Clause 21) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2032	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Moisture Resistance	"(Clause 15) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2033	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2034	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Power Input and Current	"(Clause 10) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 173 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2035	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Protection against access to live parts	"(Clause 8) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2036	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Provision for Earthing	"(Clause 27) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2037	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2038	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2039	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Resistance to Rusting	"(Clause 31) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2040	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Screw and connections	"(Clause 28) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2041	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2042	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2043	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Terminals for external conductors	"(Clause 26) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2044	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	stationary cooking ranges, hobs, ovens and similar appliances	Transient overvoltages	"(Clause 14) IEC 60335-2-6:2014+AMD1:2018, EN 60335-2-6:2015"
2045	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Stationary Storage Type Electric Water Heaters	Deviation of Dial Calibration	IS 2082 (Clause No. 20) : 2018+Amd. 1 : 2019
2046	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Stationary Storage Type Electric Water Heaters	Electric Strength	IS 2082 (Clause 9) : 2018+Amd. 1 : 2019
2047	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Stationary Storage Type Electric Water Heaters	Insulation Resistance	IS 2082 (Clause 9) : 2018+Amd. 1 : 2019
2048	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Stationary Storage Type Electric Water Heaters	Leakage Current	IS 2082 (Clause 9) : 2018+Amd. 1 : 2019
2049	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Stationary Storage Type Electric Water Heaters	Marking Test	IS 2082 (Clause 8) : 2018+Amd. 1 : 2019

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 174 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2050	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Stationary Storage Type Electric Water Heaters	Measurement of energy consumption	IS 2082 (Clause 14) : 2018+Amd. 1 : 2019
2051	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Stationary Storage Type Electric Water Heaters	Moisture Resistance	IS 2082 (Clause 9) : 2018+Amd. 1 : 2019
2052	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Stationary Storage Type Electric Water Heaters	Protection Against Electric Shock	IS 2082 (Clause 9) : 2018+Amd. 1 : 2019
2053	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Stationary Storage Type Electric Water Heaters	Provision for Earthing	IS 2082 (Clause 9) : 2018+Amd. 1 : 2019
2054	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Stationary Storage Type Electric Water Heaters	Standing Loss	IS 2082 (Clause No. 16) : 2018+Amd. 1 : 2019
2055	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Stationary Storage Type Electric Water Heaters	Verification of capacity	IS 2082 (Clause No. 15) : 2018+Amd. 1 : 2019
2056	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Stationary Storage Type Electric Water Heaters	Visual Inspection	IS 2082 (Clause No. 9) : 2018+Amd. 1 : 2019
2057	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Power Input and Current	"(Clause 10) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2058	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Terminals for external conductors	"(Clause 26) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2059	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Abnormal Operation	"(Clause 19) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2060	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	"(Clause 29) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2061	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Construction	"(Clause 22) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	175 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2062	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Endurance	"(Clause 18) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2063	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Heating	"(Clause 11) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2064	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Internal Wiring	"(Clause 23) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2065	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2066	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Marking and instructions	"(Clause 7) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2067	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Mechanical Strength	"(Clause 21) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2068	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Moisture Resistance	"(Clause 15) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2069	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2070	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Protection against access to live parts	"(Clause 8) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	176 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2071	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Provision for Earthing	"(Clause 27) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2072	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2073	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2074	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Resistance to Rusting	"(Clause 31) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2075	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Screw and connections	"(Clause 28) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2076	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2077	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2078	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Storage water heaters	Transient overvoltages	"(Clause 14) IEC 60335-2-21:2012/AMD1:2018 EN 60335-2-21: 2003, Amd. 1: 2005, Amd. 2: 2008, IS 302- 2-21 : 2018 +Amd1:2019"
2079	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Abnormal Operation	"(Clause 19) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	177 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2080	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2081	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Construction	"(Clause 22) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2082	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Endurance	"(Clause 18) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2083	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Heating	"(Clause 11) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2084	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Internal Wiring	"(Clause 23) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2085	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2086	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Marking and instructions	"(Clause 7) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2087	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Mechanical Strength	"(Clause 21) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2088	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Moisture Resistance	"(Clause 15) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2089	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2090	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Power Input and Current	"(Clause 10) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	178 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2091	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Protection against access to live parts	"(Clause 8) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2092	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Provision for Earthing	"(Clause 27) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2093	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2094	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2095	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Resistance to Rusting	"(Clause 31) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2096	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Screw and connections	"(Clause 28) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2097	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2098	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2099	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	surface-cleaning appliances for household use employing liquids or steam	Terminals for external conductors	"(Clause 26) IEC 60335-2-54:2008+AMD1:2015 +AMD2:2019, EN 60335-2-54:2008/A1:2015"
2100	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Switches for household and similar fixed electrical installations	Ball pressure test	"(Clause 21) IEC 60730-2-9:2015/AMD1: 2018, EN 60730-2-9 : 2010"
2101	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Switches for household and similar fixed electrical installations	Ball pressure test	(Clause 21) IEC 60730-1:2013/AMD1: 2015,EN 60730-1: 2016

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 179 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2102	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Switches for household and similar fixed electrical installations	Electric Strength	"(Clause 13.2) IEC 60730-2-9:2015/AMD1: 2018, EN 60730-2-9 : 2010"
2103	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Switches for household and similar fixed electrical installations	Electric Strength	(Clause 13.2) IEC 60730-1:2013/AMD1: 2015,EN 60730-1: 2016
2104	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Switches for household and similar fixed electrical installations	Insulation Resistance	"(Clause 13.1) IEC 60730-2-9:2015/AMD1: 2018, EN 60730-2-9 : 2010"
2105	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Switches for household and similar fixed electrical installations	Insulation Resistance	(Clause 13.1) IEC 60730-1:2013/AMD1: 2015,EN 60730-1: 2016
2106	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Switches for household and similar fixed electrical installations	Protection against humid conditions	"(Clause 12.2) IEC 60730-2-9:2015/AMD1: 2018, EN 60730-2-9 : 2010"
2107	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Switches for household and similar fixed electrical installations	Protection against humid conditions	(Clause 12.2) IEC 60730-1:2013/AMD1: 2015,EN 60730-1: 2016
2108	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Switches for household and similar fixed electrical installations	Resistance to corrosion	"(Clause 22) IEC 60730-1:2013/AMD1: 2015,EN 60730-1: 2016"
2109	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Switches for household and similar fixed electrical installations	Resistance to corrosion	"(Clause 22) IEC 60730-2-9:2015/AMD1: 2018, EN 60730-2-9 : 2010"
2110	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Abnormal Operation	(Clause 19) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2111	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2112	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Construction	(Clause 22) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2113	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Endurance	(Clause 18) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2114	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Heating	(Clause 11) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2115	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Internal Wiring	(Clause 23) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 180 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2116	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2117	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Marking and instructions	(Clause 7) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2118	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Mechanical Strength	(Clause 21) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2119	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Moisture Resistance	(Clause 15) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2120	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2121	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Power Input and Current	(Clause 10) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2122	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Protection against access to live parts	(Clause 8) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2123	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2124	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Resistance to heat and Fire	(Clause 30) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2125	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Resistance to Rusting	(Clause 31) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2126	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Screw and connections	(Clause 28) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2127	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2128	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2129	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Terminals for external conductors	(Clause 26) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 181 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2130	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	thermal storage room heaters	Transient overvoltages	(Clause 14) IEC 60335-2-61:2002/AMD2:2008, EN 60335-2-61:2003/A2:2008
2131	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Abnormal Operation	"(Clause 19) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2132	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Clearances and Creepage Distances	"(Clause 29) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2133	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Construction	"(Clause 22) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2134	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Endurance	"(Clause 18) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2135	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Heating	"(Clause 11) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2136	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Internal Wiring	"(Clause 23) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2137	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2138	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Marking and instructions	"(Clause 7) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	182 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2139	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Mechanical Strength	"(Clause 21) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2140	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Moisture Resistance	"(Clause 15) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2141	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2142	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Power Input and Current	"(Clause 10) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2143	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Protection against access to live parts	"(Clause 8) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2144	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Provision for Earthing	"(Clause 27) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2145	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2146	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2147	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Resistance to Rusting	"(Clause 31) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	183 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2148	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Screw and connections	"(Clause 28) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2149	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2150	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2151	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Terminals for external conductors	"(Clause 26) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2152	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	toilet appliances	Transient overvoltages	"(Clause 14) IEC 60335-2-84:2002+AMD1:2008 +AMD2:2013, IEC 60335-2-84:2019, EN 60335-2-84:2003/A1: 2008"
2153	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Abnormal Operation	(Clause 19) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2154	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2155	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Construction	(Clause 22) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2156	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Endurance	(Clause 18) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	184 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2157	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Heating	(Clause 11) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2158	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Internal Wiring	(Clause 23) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2159	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2160	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Marking and instructions	(Clause 7) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2161	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Mechanical Strength	(Clause 21) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2162	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Moisture Resistance	(Clause 15) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2163	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2164	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Power Input and Current	(Clause 10) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2165	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Protection against access to live parts	(Clause 8) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2166	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Provision for Earthing	(Clause 27) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2167	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 185 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2168	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Resistance to heat and Fire	(Clause 30) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2169	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Resistance to Rusting	(Clause 31) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2170	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Screw and connections	(Clause 28) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2171	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2172	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2173	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Terminals for external conductors	(Clause 26) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2174	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Tumble dryers	Transient overvoltages	(Clause 14) IEC 60335-2-11:2008/AMD2:2015 IEC 60335-2-11:2019 EN 60335-2-11:2010/A1:2015
2175	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Abnormal Operation	"(Clause 19) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2176	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2177	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	"(Clause 29) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2178	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Construction	"(Clause 22) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 186 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2179	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Endurance	"(Clause 18) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2180	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Heating	"(Clause 11) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2181	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Internal Wiring	"(Clause 23) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2182	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Marking and instructions	"(Clause 7) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2183	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Mechanical Strength	"(Clause 21) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2184	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Moisture Resistance	"(Clause 15) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2185	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2186	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Power Input and Current	"(Clause 10) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2187	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Protection against access to live parts	"(Clause 8) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2188	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Provision for Earthing	"(Clause 27) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2189	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Radiation, toxicity and similar hazards	"(Clause 32) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	187 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2190	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2191	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Resistance to Rusting	"(Clause 31) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2192	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Screw and connections	"(Clause 28) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2193	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2194	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2195	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Terminals for external conductors	"(Clause 26) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2196	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	UV radiation water treatment appliances	Transient overvoltages	"(Clause 14) IEC 60335-2-109:2010/AMD1:2013/ AMD2:2016 , EN 60335-2-109: 2010"
2197	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Abnormal Operation	"(Clause 19) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2198	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Clearances and Creepage Distances and solid insulation	"(Clause 29) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2199	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Construction	"(Clause 22) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2200	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Endurance	"(Clause 18) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	188 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2201	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Heating	"(Clause 11) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2202	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Internal Wiring	"(Clause 23) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2203	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2204	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Marking and instructions	"(Clause 7) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2205	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Mechanical Strength	"(Clause 21) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2206	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Moisture Resistance	"(Clause 15) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2207	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Overload protection of transformers and associated circuits	"(Clause 17) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2208	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Power Input and Current	"(Clause 10) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2209	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Protection against access to live parts	"(Clause 8) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2210	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Provision for Earthing	"(Clause 27) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2211	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Radiation, toxicity and similar hazards (Verification of CoC)	"(Clause 32) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 189 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2212	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Resistance to heat and Fire	"(Clause 30) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2213	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Resistance to Rusting	"(Clause 31) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2214	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Screw and connections	"(Clause 28) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2215	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Stability & Mechanical Hazards	"(Clause 20) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2216	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Supply Connection and External Flexible cords	"(Clause 25) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2217	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Terminals for external conductors	"(Clause 26) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2218	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Transient overvoltages	"(Clause 14) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2219	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Vaporizers	Leakage Current and Electric strength	"(Clause 13 and 16) IEC 60335-2-101:2002/AMD1:2008/ AMD2:2014, EN 60335-2-101:2002/A2: 2014"
2220	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Abnormal Operation	(Clause 19) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2221	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2222	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Construction	(Clause 22) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2223	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Endurance	(Clause 18) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2224	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Internal Wiring	(Clause 23) IEC 60335-2-91: 2008, EN 60335-2-91: 2003

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 190 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2225	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2226	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Marking and instructions	(Clause 7) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2227	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Mechanical Strength	(Clause 21) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2228	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Moisture Resistance	(Clause 15) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2229	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2230	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Power Input and Current	(Clause 10) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2231	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Protection against access to live parts	(Clause 8) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2232	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Provision for Earthing	(Clause 27) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2233	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2234	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Resistance to heat and Fire	(Clause 30) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2235	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Resistance to Rusting	(Clause 31) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2236	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Screw and connections	(Clause 28) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2237	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2238	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2239	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Terminals for external conductors	(Clause 26) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2240	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	walk-behind and hand-held lawn trimmers and lawn edge trimmers	Transient overvoltages	(Clause 14) IEC 60335-2-91: 2008, EN 60335-2-91: 2003
2241	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Abnormal Operation	(Clause 19) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 191 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2242	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Clearances and Creepage Distances and solid insulation (includes comparative tracking and proof tracking test)	(Clause 29) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2243	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Construction	(Clause 22) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2244	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Endurance	(Clause 18) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2245	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Heating	(Clause 11) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2246	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Internal Wiring	(Clause 23) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2247	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2248	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Marking and instructions	(Clause 7) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2249	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Mechanical Strength	(Clause 21) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2250	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Moisture Resistance	(Clause 15) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2251	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2252	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Power Input and Current	(Clause 10) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	192 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2253	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Protection against access to live parts	(Clause 8) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2254	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Provision for Earthing	(Clause 27) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2255	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2256	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Resistance to heat and Fire	(Clause 30) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2257	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Resistance to Rusting	(Clause 31) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2258	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Screw and connections	(Clause 28) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2259	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2260	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	warming plates and similar appliances	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2261	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	warming plates and similar appliances	Terminals for external conductors	(Clause 26) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008
2262	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Warming plates and similar appliances	Transient overvoltages	(Clause 14) IEC 60335-2-12:2002/AMD1:2008/AMD2:2017 EN 60335-2-12:2003/A1: 2008

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 193 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2263	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Washing machines	Transient overvoltages	(Clause 14) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
2264	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Washing machines	Terminals for external conductors	(Clause 26) IEC 60335-2-7:2008+AMD1:2011+ AMD2:2016, IEC 60335-2-7:2019 EN 60335-2-7:2010/A11:2013, IS 302-2-7:1994 IS 302-2-7:2010
2265	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Abnormal Operation	(Clause 19) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2266	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2267	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Construction	(Clause 22) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2268	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Endurance	(Clause 18) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2269	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Heating	"(Clause 11) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2270	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Internal Wiring	(Clause 23) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2271	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2272	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Marking and instructions	(Clause 7) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2273	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Mechanical Strength	(Clause 21) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2274	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5688	**Page No**	194 of 514
Validity	24/04/2022 to 23/04/2024	**Last Amended on**	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2275	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Power Input and Current	(Clause 10) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2276	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Protection against access to live parts	(Clause 8) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2277	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Provision for Earthing	(Clause 27) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2278	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2279	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Resistance to heat and Fire	(Clause 30) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2280	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Resistance to Rusting	(Clause 31) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2281	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Screw and connections	(Clause 28) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2282	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2283	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Terminals for external conductors	(Clause 26) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2284	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	water-bed heaters	Transient overvoltages	(Clause 14) IEC 60335-2-66:2002/AMD2:2011, EN 60335-2-66:2003/A2:2012
2285	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Abnormal Operation	(Clause 19) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2286	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Clearances and Creepage Distances	(Clause 29) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2287	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Construction	(Clause 22) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2288	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Endurance	(Clause 18) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	195 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2289	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Heating	(Clause 11) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2290	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Internal Wiring	(Clause 23) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2291	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2292	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Marking and instructions	(Clause 7) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2293	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Mechanical Strength	(Clause 21) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2294	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Moisture Resistance	(Clause 15) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2295	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Power Input and Current	(Clause 10) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2296	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Protection against access to live parts	(Clause 8) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2297	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Provision for Earthing	(Clause 27) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2298	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2299	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Resistance to heat and Fire	(Clause 30) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2300	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Screw and connections	(Clause 28) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2301	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	196 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2302	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2303	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Terminals for external conductors	(Clause 26) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2304	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	wet and dry vacuum cleaners, including power brush, for commercial use	Transient overvoltages	(Clause 14) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012(Clause 14) IEC 60335-2-69: 2016, IEC 60335-2-69:2021,EN 60335-2-69: 2012
2305	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Abnormal Operation	(Clause 19) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2306	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Construction	(Clause 22) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2307	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Endurance	(Clause 18) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2308	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Heating	(Clause 11) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2309	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Internal Wiring	(Clause 23) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2310	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Leakage Current and Electric strength	(Clause 13 and 16) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2311	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Marking and instructions	(Clause 7) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2312	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Mechanical Strength	(Clause 21) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2313	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Moisture Resistance	(Clause 15) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2314	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Overload protection of transformers and associated circuits	(Clause 17) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 197 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2315	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Power Input and Current	(Clause 10) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2316	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Protection against access to live parts	(Clause 8) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2317	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Provision for Earthing	(Clause 27) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2318	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Radiation, toxicity and similar hazards	(Clause 32) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2319	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Resistance to heat and Fire	(Clause 30) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2320	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Resistance to Rusting	(Clause 31) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2321	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Screw and connections	(Clause 28) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2322	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Stability & Mechanical Hazards	(Clause 20) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2323	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Supply Connection and External Flexible cords	(Clause 25) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2324	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Terminals for external conductors	(Clause 26) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2325	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	whirlpool baths and whirlpool spas	Transient overvoltages	(Clause 14) IEC 60335-2-60:2017, EN 60335-2-60:2003/A12:2010
2326	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Change Of Temperature Test / Temperature Cycling Tests / Rapid Cyclic Temp Change Test / Temperature Shock [Thermal Shock]	AIS-018:2001 (Clause : 5.4.6) . Amnd No. 5 2017 JSS 55555 : 2020 Test No. : 22 JASO_D001 (Clause : 5.16 & 5.17): 1994

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	198 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2327	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Change Of Temperature Test / Temperature Cycling Tests / Rapid Cyclic Temp Change Test / Temperature Shock [Thermal Shock]	IEC 60068-2-14 (Clause : 7 & 8): 2009 EN 60068-2-14 (Clause : 7 & 8): 2009 IS 9000 Part 14 (Sec I & II) Clause 8 : 1988 (R2015) QM-333 : Test No. 4 2010 ISO 16750-4 (Clause : 5.3): 2010 BS ISO 16750-4 (Clause : 5.3): 2010 IS 10250 (Clause : 4.5): 1982 ETSI EN 300 019-2-4 v2.5.1 (clause 4.3 Table 1, clause 4.4 Table 2, clause 4.5 Table 3, clause 4.6 Table 4):2018 MIL-STD-810G (Clause : 503.5): 2008 (Obsolete) MIL-STD- 810H (Clause : 503.7): 2019 : 2019
2328	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Cold (Low Temperature) Test A	ETSI EN 300 019-2-4 v2.5.1 (clause 4.3 Table 1, clause 4.4 Table 2, clause 4.5 Table 3, clause 4.6 Table 4):2018 ETSI EN 300 019-2-6 V 3.0.0 (Clause : 3.1, Table 1 Clause : 3.2, Table 2 Clause : 3.3, Table 3): 2002 JASO_D001 (Clause : 5.12 & 5.13): 1994 JSS 55555 : 2012, Test No. 20 : 2015
2329	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Cold (Low Temperature) Test A	ETSI EN 300 019-2-3 v2.5.1 (clause 4.3 Table 1, clause 4.3 Table 3, clause 4.4 Table 4, clause 4.5 Table 6, clause 4.6 Table 8, clause 4.7 Table 10, clause 4.8 Table 12):2020
2330	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Cold (Low Temperature) Test A	IEC 60068-2-1 (Clause : 6.6): 2007 EN 60068-2-1 (Clause : 6.6): 2007 BS ISO 16750-4 (Clause : 5.1.1): 2010 AIS-076: 2007 (Clause : 6): AMD2 2016 QM-333 (Test No. : 1): 2010 ISO 16750-4 (Clause : 5.1.1): 2010 IS 9000 (Part 2/Sec I to IV): 1997 (R2004)) IS 10250 (Clause : 4.4): 1982 MIL-STD-810G (Clause : 502.5): 2008 (Obsolete) MIL-STD-810H (Clause : 502.7): 2019 AIS-018:2001 (Clause : 5.4.4): Amnd No. 5 2017

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	199 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2331	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Composite Temperature/ Humidity Cyclic Test: -40°C to 85 °C	IEC 60068-2-38:2021 EN 60068-2-38:2021 EN 300 019-1-5 V 2.1.4 (Clause: 5.1, Table 1): 2003 IS 9000 : (Part 6) 1978 (Reaffirm 2004) Clause 7 BS ISO 16750-4: 2010 ISO 16750-4 (Clause : 5.6.2.3): 2010 J ASO_D001 (Clause 5.18): 1994
2332	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Damp Heat Cyclic	ETSI EN 300 019-2-3 v2.5.1 (clause 4.4 Table 4, clause 4.5 Table 6, clause 4.6 Table 8, clause 4.7 Table 10):2020 ETSI EN 300 019-2-4 v2.5.1 (clause 4.3 Table 1, clause 4.4 Table 2, clause 4.5 Table 3, clause 4.6 Table 4):2018 JSS 55555: 2012, Test No.: 27: 2013
2333	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Damp Heat Cyclic	ETSI EN 300 019-2-6 V3.0.0 (Clause : 3.2, Table 2 Clause : 3.3, Table 3): 2002
2334	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Damp Heat Cyclic	IEC 60068-2-30 (Clause : 5): 2005 EN 60068-2-30 (Clause : 5): 2005 QM-333 : 2010 (Test No. : 3) MIL-STD-810G : 2008 (Method : 507.5) (Obsolete) MIL-STD-810H : 2019 (Method : 507.6) IS 9000 (Part 5): 1981 (Sec 1 & 2) (Reaffirm2004) IS 10250 (Clause : 4.3): 1982 ISO 16750-4 (Clause : 5.6.2.2): 2010 BS ISO 16750-4 (Clause : 5.6.2.2): 2010 AIS-018:2001 Amendment No. 4 (Clause : 5.4.5): AMD No. 5 2017 AIS-076: 2007 AMENDMENT NO.1 (Clause : 6): AMD2 2016: 2017

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	200 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2335	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Damp Heat Steady State	ETSI EN 300 019-2-3 v2.5.1 (clause 4.3 Table 1, clause 4.3 Table 3, clause 4.4 Table 4, clause 4.5 Table 6, clause 4.6 Table 8, clause 4.7 Table 10, clause 4.8 Table 12):2020; ETSI EN 300 019-2-4 v2.5.1 (clause 4.3 Table 1, clause 4.4 Table 2, clause 4.5 Table 3, clause 4.6 Table 4):2018; ETSI EN 300 019-2-6 V 3.0.0 (Clause : 3.2, Table 2 Clause : 3.3, Table 3): 2002 JSS 5555: 2020, Test No.: 10 JASO_D001 (Clause : 5.19): 1994: 2013
2336	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Damp Heat Steady State	IEC 60068-2-78 (Clause : 5): 2012 EN 60068-2-78 (Clause : 5): 2013 QM-333 : 2010 (Test No. : 5) IS 9000 : Part 4 (Clause : 5): 2008 ISO 16750-4 (Clause : 5.7): 2010 BS ISO 16750-4: (Clause : 5.7): 2010
2337	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Dry Heat (High Temperature) Test B	"IEC 60068-2-2 (Clause : 6.5): 2007 EN 60068-2-2 (Clause : 6.5): 2007 ISO 16750-4 (Clause : 5.1.2): 2010 BS ISO 16750-4 (Clause : 5.1.2): 2010 AIS-018:2001 (Clause : 5.4.3): Amnd No. 5 2017 AIS-076: 2007 (Clause : 6):Amd2 2016 IS 9000 (Part 3 /Sec I to V): : 1997 Test B RA 2016 / R 2019 IS 10250 (Clause : 4.2): 1982 QM-333 : 2010 (Test No. : 2) MIL-STD-810G (Clause : Method : 501.5): 2008 (Obsolete) MIL-STD-810H (Clause : Method : 501.7): 2019
2338	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Dry Heat (High Temperature) Test B	ETSI EN 300 019-2-3 v2.5.1 (clause 4.3 Table 1, clause 4.3 Table 3, clause 4.4 Table 4, clause 4.5 Table 6, clause 4.6 Table 8, clause 4.7 Table 10, clause 4.8 Table 12):2020

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	201 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2339	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Dry Heat (High Temperature) Test B	ETSI EN 300 019-2-4 v2.5.1 (clause 4.3 Table 1, clause 4.4 Table 2, clause 4.5 Table 3, clause 4.6 Table 4):2018 ETSI EN 300 019-2-6 V 3.0.0 (Clause : 3.1, Table 1 Clause : 3.2, Table 2 Clause : 3.3, Table 3): 2002 JASO_D001 (Clause : 5.14 & 5.15): 1994 JSS 5555: 2020, Test No.: 10
2340	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Free fall Drop Topple Test Height : 1m Weight : 100 Kg	IEC 60068-2-31 (Clause 5.2 And 5.3): 2008 EN 60068-2-31 (Clause 5.2 And 5.3): 2008 IS 10250 (Clause : 4.10): 1982 QM-333: 2010 (Free Fall: Test No. 12, Drop test: Test No.10, Topple Test : Test No.11) AIS-018:2001 Amendment No. 5 (Clause : 5.5.5): 2017
2341	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	IP1 X, IP2X, IP3 X, IP4X, IP5X, IP6X IPX1, IPX2, IPX3, IPX4, IPX5, IPX6, IPX7, IPX8	IEC 60529:Ed 2.2 2013 EN 60529: 1991 (Clause 13 & 14): 2013 DIN 40050 Part 9 : 1993 (Figure 1) EN 60068-2-68 : 1997 (Test method La 2) IEC 60068-2-68 : 1994 (Test method La2) QM-333 (Clause : Test No. 8): 2010
2342	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Low air pressure test (Altitude test)	IEC 60068-2-13:2021 IS 9000 Part 13: 2013 QM 333 March 2010, Test No. 7 Procedure 3 JSS 55555 : 2020 Test No. : 3, Procedure 4, Test Condition H1, H2 & H3 MIL-STD- 810G : 2008 (Method : 500.5) MIL-STD- 810H : 2019 (Method : 500.6) MIL STD 202G Method 105: 2013
2343	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Random Vibration test	IEC 60068-2-64 : 2008 EN 60068-2-64 : 2008

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	202 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2344	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Salt Spray Test (Resistance against Corrosion)	IEC 60068-2-11:2021 IS : 9000 : Part 11 (Clause : 7): 2004 BS EN 60068-2-11 (Clause : 7): 1999 BS EN 60068-2-11: 2021 IEC 60068-2-52 (Clause : 9): 1996 IS 10250 (Clause : 4.8): 1982 IS : 9002 : Part 12 (Clause : 9.3) : 1986 QM-333 : 2010 (Test No.: 9) AIS-018:2001 (Clause : 5.4.8): Amnd No. 5 2017 MIL-STD-810G (Clause : 509.5): 2008 JASO_D001 (Clause : 5.22): 1994: 2017
2345	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Shock test / Bump Test Single axis	EN 60068-2-27 : 1993 EN 60068-2-27 : 2009 IEC 60068-2-27 : 2008 QM-333 : 2010 (Test no 13) JSS 55555:2020 Rev 04 (Test no 5 & 24) IS 9000 Part7/sec I: 2008: 2008012 Rev 03 (Test no 5 & 24) IS 9000 Part7/sec I: 2008
2346	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES - Safety of Lamp Control Gear	Particular additional requirements for SELV d.c. or a.c. supplied electronic control gear (Annex I),	IS 15885 (Part 2/Sec 13)+A1: : 2015
2347	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES - Safety of Lamp Control Gear	Construction	"IS 15885 (Part 2/Sec 13)+A1(Cl. 16) : 2015 EN 61347-2-13(Cl. 16) : 2016 EN 61347-1(Cl. 15): 2017 IEC 61347-1:2015+AMD1(Cl. 15): 2017 IS 15885 Part 1+A1(Cl. 15) : 2015 IEC 61347-2-13:2014+AMD1(Cl. 16): 2016"
2348	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES - Safety of Lamp Control Gear	Fault conditions	"IEC 61347-1:2015+AMD1(Cl.12): 2017 EN 61347-1(Cl.12): 2017 IS 15885 Part 1+A1(Cl.14): 2015 IS 15885 (Part 2/Sec 13)+A1(Cl.14) : 2015 EN 61347-2-13(Cl.14) : 2016 IEC 61347-2-13:2014+AMD1(Cl.14) : 2016"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 203 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2349	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES - Safety of Lamp Control Gear	Insulation Resistance Test	"IS 15885 Part 1+A1(Cl.12) : 2015 IS 15885 (Part 2/Sec 13)+A1(Cl.12) : 2015 IS 15885 (Part 2/Sec 13)+A1(Cl.11) : 2015 IS 15885 Part 1+A1(Cl.11) : 2015
2350	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES - Safety of Lamp Control Gear	Particular additional requirements for SELV d.c. or a.c. supplied electronic control gear (Annex L Cl. L5),(Annex L Cl. L6),(Annex L Cl. L7),(Annex L Cl. L8),(Annex L Cl. L11)	EN 61347-1: 2017
2351	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES - Safety of Lamp Control Gear	Particular additional requirements for SELV d.c. or a.c. supplied electronic control gear (Annex L Cl. L5),(Annex L Cl. L6),(Annex L Cl. L7),(Annex L Cl. L8),(Annex L Cl. L11)	IEC 61347-1:2015+AMD1: 2017
2352	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES - Safety of Lamp Control Gear	Particular additional requirements for SELV d.c. or a.c. supplied electronic control gear (Annex L)	EN 61347-2-13 : 2016
2353	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES - Safety of Lamp Control Gear	Particular additional requirements for SELV d.c. or a.c. supplied electronic control gear (Annex L)	IEC 61347-2-13:2014+AMD1:2016
2354	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES - Safety of Lamp Control Gear	Particular additional requirements for SELV d.c. or a.c. supplied electronic control gear (Annex M Cl. M5),(Annex M Cl. M6),(Annex M Cl. M7),(Annex M Cl. M8),(Annex M Cl. M11)	IS 15885 Part 1+A1: : 2015
2355	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES - Safety of Lamp Control Gear	Particular requirements for electronic lamp controlgear with means of Protection against overheating	"IEC 61347-1:2015+AMD (Annex C):: 2017 IEC 61347-1:2015+AMD (Annex C):: 2017 EN 61347-2-13 (Annex C): 2016 IS 15885 Part 1+A1 (Annex C): 2015 EN 61347-1 (Annex C): 2017 IEC 61347-2-13:2014+AMD1 (Annex C): 2016 IS 15885 (Part 2/Sec 13)+A1 (Annex C): 2015"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	204 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2356	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES - Safety of Lamp Control Gear	Resistance to heat, fire and tracking	"IS 15885 Part 1+A1(18, 18.1, 18.3, 18.4, 18.5) : 2015 EN 61347-1(Cl. 18): 2017 IEC 61347-1:2015+AMD1(Cl. 18): 2017 IS 15885 (Part 2/Sec 13)+A1(Cl. 19) : 2015 EN 61347-2-13(Cl. 19): 2016 IEC 61347-2-13:2014+AMD1(Cl. 19): 2016
2357	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES - Safety of Lamp Control Gear	Screws, current-carrying parts and connections	"IS 15885 (Part 2/Sec 13)+A1(Cl.18) : 2015 IEC 61347-2-13:2014+AMD1(Cl.18) : 2016 EN 61347-2-13 (Cl.18): 2016 IEC 61347-1:2015+AMD1(Cl.18): 2017 IS 15885 Part 1+A1(Cl.18) : 2015 EN 61347-1(Cl.18): 2017"
2358	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES - Safety of Lamp Control Gear	Terminals	IS 15885 Part 1+A1 (Cl.8): 2015 IEC 61347-2-13:2014+AMD1: (Cl.9): 2016 IEC 61347-1:2015+AMD1: (Cl.8): 2017
2359	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES - Safety of Lamp Control Gear	Transformer heating Abnormal Operation	"IS 15885 Part 1+A1: (Annex M, Cl. M7): 2015 IS 15885 (Part 2/Sec 13)+A1(Cl.15.2) : 2015 IEC 61347-2-13:2014+AMD1(Cl.15.2): 2016 EN 61347-2-13(Cl.15.2): 2016"
2360	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES - Safety of Lamp Control Gear	Transformer heating Normal Operation	IS 15885 (Part 2/Sec 13)+A1: (Cl.15.1): 2015 IS 15885 Part 1+A1(Annex M, Cl. M6): 2015 IEC 61347-2-13:2014+AMD1(Cl.15.1): 2016 EN 61347-2-13(Cl.15.1) : 2016

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	205 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2361	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Ball Pressure Test	EN 60598-1: 2008 Amd. 11 (Cl. 13.2): 2009 IEC 60598-1 (Cl. 13.2): 2014 IEC 62031: 2008 IS 16102(part 1) (Cl. 11): 2012 UL 153: 2002 UL 1598: 2008 EN 60598-2-4 (Cl. 4.15): 1997 IEC 60598-2-1: 1979 Amd 1 (Cl. 1.15): 1987 IEC 60598-2-4 (Cl. 4.15): 1997 EN 62560 (Cl. 11): 2012 CSA C22.2 No. 250-08CSA C22.2 NO. 1993-12 CSA C22.2 No.12: 2018
2362	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Ball Pressure Test	EN 60598-2-2(Cl. 2.15): 1996 Amd 1: 1997 IEC 60598-2-2(Cl. 2.15): 1996, A1: 1997 IEC 60598-2-2(Cl. 2.15): 2011 EN 60598-2-2(Cl. 2.15): 2012 EN 61347-2-13(Cl. 20): 2006 IEC 61347-2-13(Cl. 20): 2006 IS 10322(Part 5/Sec 6)(Cl.16): 2013 IS 10322(Part 5/Sec 2) (Cl.16) : 2012 IS 10322 (Part 5/Sec1)(Cl.16): 2012 IS 10322(Part 5/Sec 3)(Cl.16) : 2012 IS 10322(Part 5/Sec 3)(Cl.16) : 2012 IS 10322(Part 5/Sec 7)(Cl.16) : 2013 IS 10322(Part 5/Sec 8)(Cl.16) : 2013 IS 10322(Part 5/Sec 5)(Cl.16): 2013
2363	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Ball Pressure Test	EN 62031: 2008 UL1993: 2012 IEC 62560 (Cl. 11): 2011 IS 10322 (Part 1)(Cl. 13.2): 2014 IEC598-1(Cl. 13.2): 1979 IS 16103 (Part 1)(Cl. 18): 2012 EN 61347-1(Cl. 18): 2008 Amd 1: 2011, Amd. 2: 2013 IEC 61347-1(Cl. 18): 2007 Amd 1: 2010, Amd. 2: 2012 IEC 61347-1(Cl. 18): 2000 IS 15885 Part 1(Cl. 18): 2011 IS 15885 (Part 2/Sec XIII) (Cl. 19) : 2012

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	206 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2364	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Creepage Distances and Clearances Test	"IS 15885 Part 1 (Cl. 16): 2011 IEC 61347-2-13 (Cl. 18): 2006 IS 16102(part 1)(Cl. 14): 2012 EN 62560(Cl. 14): 2012 IEC 62560(Cl. 14): 2011 EN 61347-1(Cl. 16): 2008 Amd 1: 2011, Amd. 2: 2013 IEC 61347-1(Cl. 16): 2007 Amd 1: 2010, Amd. 2: 2012 IS 15885 (Part 2/Sec XIII)(Cl. 18) : 2012 UL 153(Cl. 24): 2002 EN 60598-2-4(Cl. 4.7): 1997 UL 1598(Cl. 6.11): 2008 UL1993(Cl. 6.6): 2012 IS 15885 – Part 2/sec13 (Cl. 17): 2012"
2365	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Creepage Distances and Clearances Test	"IS 16102 (Part 1)(Cl. 14): 2012 IEC 60598-2-1: 1979 Amd 1: (Cl. 1.7)1987 EN 62031: 2008 IEC 62031: 2008 IEC 60598-1: 2014 IS 10322(Part 5/Sec 7) (Cl. 8): 2013 IS 10322(Part 5/Sec 2)(Cl. 8) : 2012 IS 10322(Part 5/Sec 6)(Cl. 8) : 2013 IS 10322 (Part 5/Sec1)(Cl. 8): 2012 IS 10322(Part 5/Sec 5)(Cl. 8): 2013 IS 10322(Part 5/Sec 3)(Cl. 8) : 2012 "
2366	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Creepage Distances and Clearances Test	IS 10322 (Part 1)(Cl. 11): 2014 EN 60598-1: 2008 Amd. 11(Cl. 11): 2009 IS 16103 (Part 1)(Cl. 16): 2012 IEC 60598-2-2: 1996, A1(Cl. 2.7): 1997 EN 60598-2-2: 1996 Amd 1(Cl. 2.7): 1997 IEC 60598-2-2(Cl. 2.7): 2011 EN 60598-2-2(Cl. 2.7): 2012 IS 10322(Part 5/Sec 8)(Cl. 8): 2013 CSA C22.2 No. 250-08CSA C22.2 NO. 1993-12 CSA C22.2 No.12: 2018 IEC 60598-2-4: 1997 CSA C22.2 : 2012 IEC 61347-1 (Cl. 16): 2000 EN 61347-2-13 (Cl. 18): 2006

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	207 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2367	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Electric Strength Test	"UL 153(Cl. 137): 2002 IS 10322(Part 5/Sec 2)(Cl. 15) : 2012 IS 10322(Part 5/Sec 7) (Cl. 15): 2013 IS 10322 (Part 5/Sec1)(Cl. 15): 2012 IS 10322(Part 5/Sec 3)(Cl. 15) : 2012 IS 10322(Part 5/Sec 5) (Cl. 15): 2013 IS 10322(Part 5/Sec 6) (Cl. 15): 2013 IS 10322(Part 5/Sec 8) (Cl. 15): 2013 UL 1598(Cl. 17.1): 2008 EN 60598-2-2(Cl. 2.14): 2012 IEC 60598-2-2(Cl. 2.14): 2011 IEC 60598-2-2(Cl. 2.14): 1996, A1: 1997 EN 60598-2-2(Cl. 2.14): 1996 Amd 1: 1997 IS 16102 (Part 1)(Cl. 8.2): 2012 IS 16102
2368	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Electric Strength Test	EN 62560(Cl. 8.3): 2012 IEC 62560(Cl. 8.3): 2011 UL1993(Cl. 8.6): 2012 EN 60598-2-4(Cl.4.14): 1997 IEC 60598-2-4(Cl.4.14): 1997 CSA C22.2 No. 250-08CSA C22.2 NO. 1993-12 CSA C22.2 No.12: 2018
2369	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Electric Strength Test	IEC 60598-2-1: 1979 Amd 1(Cl. 1.14): 1987 IEC 60598-1(Cl. 10): 2014 EN 60598-1: 2008 Amd. 11(Cl. 10): 2009 IS 10322 (Part 1)(Cl. 10): 2014 IEC598-1(Cl. 10): 1979 EN 62031(Cl. 12): 2008 IS 15885 (Part 2/Sec XIII)(Cl. 12): 2012 IEC 61347-1(Cl. 12): 2000 EN 61347-1(Cl. 12): 2008 Amd 1: 2011, Amd. 2: 2013 IEC 62031(Cl. 12): 2008 EN 61347-2-13(Cl. 12): 2006 IEC 61347-2-13(Cl. 12): 2006 IS 15885 Part 1(Cl. 12): 2011 IS 16103 (Part 1)(Cl. 12): 2012 IEC 61347-1(Cl. 12): 2007 Amd 1: 2010, Amd. 2: 2012

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 208 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2370	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Insulation Resistance Test	"CSA C22.2 No. 250-08CSA C22.2 NO. 1993-12 CSA C22.2 No.12: 2018 IS 16102 (Part 1)(Cl.8): 2012 EN 61347-2-13 (Cl. 11): 2014 IS 15885 – Part 2/sec13(Cl. 11) : 2012 IEC 61347-2-13(Cl. 11) : 2014 "
2371	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Insulation Resistance Test	IEC 60598-1 (Cl. 10): 2014 IEC598-1 (Cl. 10): 1979 EN 60598-1 (Cl. 10): 2008 Amd. 11: 2009 IS 10322 (Part 1) (Cl. 10): 2014
2372	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Insulation Resistance Test	IEC 60598-2-2 (Cl.2.14): 1996, A1: 1997 EN 60598-2-2 (Cl.2.14): 1996 Amd 1: 1997 EN 60598-2-2 (Cl.2.14): 2012 IEC 60598-2-2 (Cl.2.14): 2011 EN 60598-2-4 (Cl.2.14): 1997 IEC 60598-2-4 (Cl.2.14): 1997 IS 16102(part 1)(Cl.8): 2012 EN 62560(Cl.8): 2012 IEC 62560(Cl.8): 2011 UL 1598(Cl.6.12): 2008
2373	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Insulation Resistance Test	IS 10322(Part 5/Sec 8)(Cl. 15) : 2013 IS 10322(Part 5/Sec 5)(Cl. 15): 2013 IS 10322(Part 5/Sec 6)(Cl. 15) : 2013 IS 10322(Part 5/Sec 7)(Cl. 15) : 2013 IS 10322(Part 5/Sec 3)(Cl. 15): 2012 IS 10322 (Part 5/Sec1)(Cl. 15): 2012 IS 10322(Part 5/Sec 2)(Cl. 15) : 2012 IS 10322 (Part 5/Sec1)(Cl. 15): 2012 IS 10322(Part 5/Sec 2)(Cl. 15) : 2012
2374	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Insulation Resistance Test	IS 10322(Part 5/Sec 8)(Cl. 15) : 2013 IS 10322(Part 5/Sec 5)(Cl. 15): 2013 IS 10322(Part 5/Sec 6)(Cl. 15) : 2013 IS 10322(Part 5/Sec 7)(Cl. 15) : 2013 IS 10322(Part 5/Sec 3)(Cl. 15): 2012 IS 10322 (Part 5/Sec1)(Cl. 15): 2012 IS 10322(Part 5/Sec 2)(Cl. 15) : 2012 IS 10322 (Part 5/Sec1)(Cl. 15): 2012 IS 10322(Part 5/Sec 2)(Cl. 15) : 2012

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	209 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2375	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Insulation Resistance Test	UL 153(Cl. 120.6): 2002 IEC 60598-2-1(Cl.1.14): 1979 Amd 1: 1987 IEC 61347-1(Cl.11): 2007 Amd 1: 2010, Amd. 2: 2012 IS 15885 (Part 2/Sec XIII)(Cl.11): 2012 EN 61347-2-13(Cl.11): 2006 IEC 61347-2-13(Cl.11): 2006 EN 61347-1(Cl.11): 2008 Amd 1: 2011, Amd. 2: 2013 IEC 61347-1(Cl.11): 2000 IS 16103 (Part 1))(Cl.11): 2012 IS 15885 Part 1(Cl.11): 2011
2376	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Insulation Resistance Test	"IEC 62031: 2008 UL1993: 2012 EN 62031: 2008"
2377	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Marking	EN 60598-2-2 (Cl.2. 5): 1996 Amd 1: 1997 EN 60598-2-2 (Cl.2. 5): 2012 IEC 60598-2-2 (Cl.2. 5): 2011 IEC 60598-2-2(Cl.2. 6): 1996, A1: 1997 EN 60598-2-4(Cl.4.5): 1997 IEC 60598-2-4(Cl.4.5): 1997 IS 16103 (Part 1)(Cl.7): 2012 IEC 61347-1(Cl.7): 2007 Amd 1: 2010, Amd. 2: 2012 EN 62031(Cl.7): 2008 EN 61347-1(Cl.7): 2008 Amd 1: 2011, Amd. 2: 2013
2378	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Marking	EN 61347-2-13(Cl.7): 2006 IEC 62031(Cl.7): 2008 IS 15885 (Part 2/Sec XIII)(Cl.7) : 2012 IS 15885 Part 1(Cl.7): 2011 IEC 61347-2-13(Cl.7): 2006 IS 10322 (Part 1)(Cl. 3): 2014 IEC 60598-1(Cl. 3): 1979 EN 60598-1(Cl. 3): 2008.Amd. 11: 2009 IS 10322(Part 5/Sec 7)(Cl. 6): 2013 IS 10322(Part 5/Sec 2)(Cl. 6) : 2012 IS 10322(Part 5/Sec 3)(Cl. 6): 2012 IS 10322(Part 5/Sec 6) (Cl. 6): 2013 IS 10322(Part 5/Sec 5)(Cl. 6) : 2013 IS 10322 (Part 5/Sec1)(Cl. 6): 2012

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	210 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2379	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Marking	IEC 60598-1(Cl. 3): 2014 / Amd 1: 2017 CSA C22.2 NO. 1993-12 CSA C22.2 No. 250-08 CSA C22.2 : 2018 IEC 60598-2-1(Cl. 1.5): 1979 Amd 1: 1987 UL 1993(Cl. 10): 2012 UL 153: 2002 EN 62560(Cl. 5): 2012 IS 16102(part 1)(Cl. 5): 2012 IS 16102 (Part 1)(Cl. 5): 2012 IS 10322 (Part 5 /Sec I)(Cl. 6): 2012 IS 10322(Part 5/Sec 8)(Cl. 6) : 2013
2380	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Moisture Resistance / Humidity Test	"IS 15885 (Part 2/Sec XIII) (Cl.11): 2012 UL 1598 (Cl.13): 2008 IS 16102 (Part 1) (Cl. 8): 2012 IEC 61347-1: 2007 Amd 1: 2010, Amd. 2 (Cl.11): 2012 IEC 60598-2-4 (Cl.4.13): 1997 UL1993 (Cl. 8.13): 2012 EN 61347-1: 2008 Amd 1: 2011, Amd. 2 (Cl.11): 2013 EN 60598-2-4 (Cl.4.13): 1997 EN 62031 (Cl.11): 2008"
2381	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Moisture Resistance / Humidity Test	EN 60598-1(Cl. 9.3): 2008 Amd. 11: 2009 IEC 60598-1(Cl. 9.3): 2014 EN 60598-2-2(Cl.2.13): 1996 Amd 1: 1997 IEC 60598-2-2(Cl.2.13): 2011 IEC 60598-2-2(Cl.2.13): 1996, A1: 1997 CSA C22.2 No. 250-08CSA C22.2 NO. 1993-12 CSA C22.2 No.12: 2018
2382	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Moisture Resistance / Humidity Test	EN 60598-2-2 (Cl.2.13): 2012 IEC 61347-2-13 (Cl.11): 2006 EN 62560 (Cl. 8): 2012 IEC 62031 (Cl.11): 2008 EN 61347-2-13 (Cl.11): 2006 IS 16102(part 1) (Cl. 8): 2012 IS 16103 (Part 1) (Cl.11): 2012 IEC 61347-1 (Cl.11): 2000 UL 153 (Cl.140): 2002 IS 15885 Part 1 (Cl.11): 2011 IEC 62560 (Cl. 8): 2011

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	211 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2383	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Moisture Resistance / Humidity Test	IS 10322(Part 5/Sec 2)(Cl. 14) : 2012 IS 10322(Part 5/Sec 5)(Cl. 14) : 2013 IS 10322(Part 5/Sec 6) (Cl. 14): 2013 IS 10322 (Part 5/Sec1)(Cl. 14): 2012 IS 10322(Part 5/Sec 7) (Cl. 14): 2013 IS 10322(Part 5/Sec 8)(Cl. 14): 2013 IS 10322(Part 5/Sec 3)(Cl. 14) : 2012 IEC 60598-2-1(Cl. 1.13): 1979 Amd 1: 1987 IS 10322 (Part 1)(Cl. 9.3): 2014 IEC 598-1(Cl. 9.3): 1979
2384	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Protection against Accidental Contact with live parts / Protections against electric shock	"EN 60598-2-2 (Cl. 2.11): 2012 IS 15885 Part 1(Cl. 10): 2011 IEC 61347-1(Cl. 10): 2000 EN 62031(Cl. 10): 2008 IEC 62031(Cl. 10): 2008 IEC 61347-1(Cl. 10): 2007 Amd 1: 2010, Amd. 2: 2012 EN 61347-1(Cl. 10): 2008 Amd 1: 2011, Amd. 2: 2013 IS 16103 (Part 1)(Cl. 10): 2012 IS 10322 (Part 5/Sec1)(Cl. 12): 2012 IS 10322(Part 5/Sec 6)(Cl. 12) : 2013 IS 10322(Part 5/Sec 7)(Cl. 12) : 2013 IS 10322(Part 5/Sec 2)(Cl. 12) : 2012"
2385	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Protection against Accidental Contact with live parts / Protections against electric shock	"IS 10322(Part 5/Sec 3) (Cl. 12): 2012 IS 10322(Part 5/Sec 5)(Cl. 12) : 2013 IEC 60598-2-1: 1979 Amd 1(Cl. 12): 1987 IS 10322(Part 5/Sec 8) (Cl. 12): 2013 IEC 60598-2-2(Cl. 2.11): 1996, A1: 1997 IEC 60598-2-2(Cl. 2.11): 2011 EN 60598-2-2(Cl. 2.11): 1996 Amd 1: 1997 UL 153(Cl. 23): 2002 EN 60598-2-4(Cl. 4.11): 1997 IEC 60598-2-4(Cl. 4.11): 1997 UL 1598 (Cl. 6.13): 2008 UL1993(Cl. 6.7): 2012"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	212 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2386	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Protection against Accidental Contact with live parts / Protections against electric shock	"IS 16102(part 1)(Cl. 7): 2012 IEC 62560(Cl. 7): 2012 EN 62560(Cl. 7): 2012 IS 16102 (Part 1)(Cl. 7): 2012 IEC 61347-2-13(Cl. 8): 2006 EN 61347-2-13(Cl. 8): 2006 IEC 60598-1(Cl. 8): 2014 IS 10322 (Part 1)(Cl. 8): 2014 EN 60598-1(Cl. 8): 2008 Amd. 11: 2009 IS 15885 (Part 2/Sec XIII)(Cl. 8) : 2012 IEC598-1(Cl. 8): 1979 CSA C22.2 No. 250-08CSA C22.2 NO. 1993-12 CSA C22.2 No.12: 2018"
2387	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Provision for Protective Earthing / Provision for Earthing	"IEC 60598-1(Cl. 7): 2014 EN 60598-1(Cl. 7): 2008 Amd. 11: 2009 IEC 598-1(Cl. 7): 1979 IEC 60598-2-1(Cl. 7): 1979 Amd 1: 1987 IS 10322 (Part 1)(Cl. 7): 2014 IS 10322(Part 5/Sec 3)(Cl. 9) : 2012 IS 10322(Part 5/Sec 2) (Cl. 9): 2012 IS 10322(Part 5/Sec 6) (Cl. 9): 2013 IS 10322(Part 5/Sec 5)(Cl. 9) : 2013 IS 10322 (Part 5/Sec1)(Cl. 9): 2012 IS 10322(Part 5/Sec 7)(Cl. 9) : 2013"
2388	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Provision for Protective Earthing / Provision for Earthing	"IEC 62560: 2011 EN 62560: 2012 IS 16102 (Part 1): 2012 EN 62031: 2008 UL1993: 2012 CSA C22.2 No. 250-08CSA C22.2 NO. 1993-12 CSA C22.2 No.12: 2018 IEC 62031: 2008 IS 16102(part 1): 2012"
2389	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Provision for Protective Earthing / Provision for Earthing	"IS 15885 (Part 2/Sec XIII) (Cl. 10): 2012 EN 61347-2-13(Cl. 10): 2006 IEC 61347-2-13(Cl. 10): 2006 UL 153(Cl. 136): 2002 UL 1598(Cl. 17.2): 2008 EN 60598-2-2(Cl. 2.8): 2012 IEC 60598-2-2(Cl. 2.8): 2011 EN 60598-2-2(Cl. 2.8): 1996 Amd 1: 1997 IEC 60598-2-2(Cl. 2.8): 1996, A1: 1997 EN 60598-2-4(Cl. 4.8): 1997 IEC 60598-2-4(Cl. 4.8): 1997"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	213 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2390	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Provision for Protective Earthing / Provision for Earthing	"IS 15885 Part 1(Cl. 9): 2011 IS 10322(Part 5/Sec 8)(Cl. 9) : 2013 IEC 61347-1(Cl. 9): 2007 Amd 1: 2010, Amd. 2: 2012 EN 61347-1(Cl. 9): 2008 Amd 1: 2011, Amd. 2: 2013 IS 16103 (Part 1)(Cl. 9): 2012 IEC 61347-1(Cl. 9): 2000"
2391	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Thermal and Endurance Test / Endurance test and thermal test / Thermal endurance test for windings of ballasts	"EN 60598-2-2(Cl. 2.7): 2012 EN 60598-2-2: 1996 Amd 1(Cl. 2.7): 1997 IEC 60598-2-2(Cl. 2.7): 2011 UL 1598(Cl. 6.11): 2008 IEC 62560(Cl. 14): 2011 EN 62560 (Cl. 14): 2012 IS 16102 (Part 1) (Cl. 14): 2012 IS 16102(part 1) (Cl. 14): 2012 UL 153(Cl. 24): 2002 IEC 60598-2-4(Cl. 4.7): 1997 EN 60598-2-4(Cl. 4.7): 1997 UL1993(Cl. 6.6): 2012 CSA C22.2 No. 250-08CSA C22.2 NO. 1993-12 CSA C22.2 No.12: 2018"
2392	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Thermal and Endurance Test / Endurance test and thermal test / Thermal endurance test for windings of ballasts	"IS 10322(Part 5/Sec 8)(Cl. 13) : 2013 IEC 60598-2-1: 1979 Amd 1 (Cl. 1.7): 1987 IEC598-1(Cl. 12): 1979 EN 60598-1(Cl. 12): 2008 Amd. 11: 2009 IS 16103 (Part 1)(Cl. 16): 2012 IEC 61347-1(Cl. 16): 2007 Amd 1: 2010, Amd. 2: 2012 EN 61347-1(Cl. 16): 2008 Amd 1: 2011, Amd. 2: 2013 IEC 61347-1(Cl. 16): 2000 IS 15885 Part 1(Cl. 16): 2011 IEC 61347-2-13(Cl. 18): 2006"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 214 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2393	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LAMPS, LUMINARIES AND ACCESSORIES Luminaries	Thermal and Endurance Test / Endurance test and thermal test / Thermal endurance test for windings of ballasts	IEC 60598-1: 2014 IS 10322 (Part 1)(Cl. 12): 2014 IEC 62031: 2008 EN 62031: 2008 IS 10322 (Part 5/Sec1)(Cl. 13): 2012 IS 10322(Part 5/Sec 6)(Cl. 13): 2013 IS 10322(Part 5/Sec 3) (Cl. 13): 2012 IS 10322(Part 5/Sec 5) (Cl. 13): 2013 IS 10322(Part 5/Sec 2) (Cl. 13): 2012 IS 10322(Part 5/Sec 7)(Cl. 13) : 2013 EN 61347-2-13(Cl. 18): 2006 IS 15885 (Part 2/Sec XIII)(Cl. 18) : 2012 IEC 60598-2-2: 1996, A1(Cl. 2.7): 1997
2394	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries and Accessories Safety of lamp control gear	Creepage Distances and Clearances Test	"EN 61347-2-13(Cl. 18) : 2014 IEC 61347-2-13 (Cl. 18): 2014 IS 15885 Part 1+A1(Cl. 16): 2016 IS 15885 (Part 2/Sec 13)+A1(Cl.17): 2015 "
2395	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries and Accessories Safety of lamp control gear	Electric Strength Test	"IS 15885(Cl. 12) – Part 2/sec13: 2012 IEC 61347-2-13(Cl. 12): 2014 EN 61347-2-13(Cl. 12) : 2014"
2396	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries and Accessories Safety of lamp control gear	Marking	"IEC 61347-2-13(Cl. 7) : 2014 IS 15885 – Part 2/sec13(Cl. 7) : 2012 EN 61347-2-13(Cl. 7) : 2014 IS 15885 Part 1+A1(Cl.7) : 2015"
2397	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries and Accessories Safety of lamp control gear	Moisture Resistance / Humidity Test	"IEC 61347-2-13(Cl. 11) : 2014 IS 15885 – Part 2/sec13(Cl. 11) : 2012 EN 61347-2-13 (Cl. 11): 2014 IS 15885 (Part 2/Sec 13)+A1(Cl. 11) : 2015 IS 15885 Part 1+A1(Cl. 11) : 2015"
2398	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries and Accessories Safety of lamp control gear	Protection against Accidental Contact with live parts / Protections against electric shock	"IS 15885 – Part 2/sec13(Cl. 8) : 2012 IEC 61347-2-13(Cl. 8) : 2014 EN 61347-2-13(Cl. 8) : 2014 IS 15885 Part 1+A1(Cl.10.1,10.2,10.3 &10.4) : 2015 IS 15885 (Part 2/Sec 13) + A1(Cl.8) : 2015"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 215 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2399	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries and Accessories Safety of lamp control gear	Provision for Protective Earthing / Provision for Earthing	"EN 61347-2-13(Cl. 10) : 2014 IEC 61347-2-13(Cl. 10) : 2014 IS 15885 – Part 2/sec13(Cl. 10) : 2012 IS 15885 (Part 2/Sec 13)+A1(Cl. 10): 2015 IS 15885 Part 1+A1(Cl.9) : 2015"
2400	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries and Accessories Safety of lamp control gear	Resistance to Corrosion	IS 15885 – Part 2/sec13 (Cl. 20): 2012 IEC 61347-2-13 (Cl. 21): 2014 EN 61347-2-13 (Cl. 21): 2014 IS 15885 Part 1+A1(Cl. 19): 2015
2401	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaries	Ball Pressure Test	"IS 10322 (Part 1)(Cl. 13.2.1): 2014 IS 10322(Part 5/Sec 3)(Cl. 13.2.1): 2012 IS 10322(Part 5/Sec 8)(Cl. 13.2.1): 2013 IS 10322(Part 5/Sec 7)(Cl. 13.2.1): 2013 IS 10322(Part 5/Sec 2)(Cl. 13.2.1): 2012 IS 10322 (Part 5 /Sec 1)(Cl. 13.2.1): 2012 IS 10322(Part 5/Sec 6)(Cl. 13.2.1): 2013 IS 10322(Part 5/Sec 5) (Cl. 13.2.1): 2013"
2402	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaries	Creepage Distances and Clearances Test	"IS 10322(Part 5/Sec 8)(Cl. 11): 2013 IS 10322(Part 5/Sec 3)(Cl. 11): 2012 IS 10322 (Part 5 /Sec 1)(Cl. 11): 2012 IS 10322 (Part 1)(Cl. 11): 2014 IS 10322(Part 5/Sec 5) (Cl. 11): 2013 IS 10322(Part 5/Sec 6)(Cl. 11): 2013 IS 10322(Part 5/Sec 2)(Cl. 11): 2012 IS 10322(Part 5/Sec 7)(Cl. 11): 2013"
2403	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaries	Electric Strength Test	IS 10322 (Part 5 /Sec 1)(Cl. 2.2): 2012 IS 10322(Part 5/Sec 2)(Cl. 2.2): 2012 IS 10322(Part 5/Sec 3)(Cl. 2.2): 2012 IS 10322(Part 5/Sec 8)(Cl. 2.2): 2013 IS 10322(Part 5/Sec 7)(Cl. 2.2): 2013 IS 10322 (Part 1)(Cl. 2.2) : 2014 IS 10322(Part 5/Sec 5)(Cl. 2.2) : 2013 IS 10322(Part 5/Sec 6)(Cl. 2.2): 2013

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 216 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2404	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaries	Impact Hammer /Construction / mechanical strength	"IS 10322 (Part 5 /Sec 1)(Cl. 4.3.1): 2012 IS 10322 (Part 1)(Cl. 4.3.1) : 2014 IS 10322(Part 5/Sec 5) (Cl. 4.3.1): 2013 IS 10322(Part 5/Sec 3)(Cl. 4.3.1): 2012 IS 10322(Part 5/Sec 8)(Cl. 4.3.1): 2013 IS 10322(Part 5/Sec 6)(Cl. 4.3.1): 2013 IS 10322(Part 5/Sec 7)(Cl. 4.3.1): 2013 IS 10322(Part 5/Sec 2)(Cl. 4.3.1): 2012"
2405	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaries	Insulation Resistance Test	IS 10322 (Part 1)(Cl. 10.2.1) : 2014 IS 10322(Part 5/Sec 5)(Cl. 10.2.1) : 2013 IS 10322(Part 5/Sec 2)(Cl. 10.2.1): 2012 IS 10322(Part 5/Sec 6)(Cl. 10.2.1): 2013 IS 10322(Part 5/Sec 3)(Cl. 10.2.1): 2012 IS 10322(Part 5/Sec 8)(Cl. 10.2.1): 2013 IS 10322 (Part 5 /Sec 1)(Cl. 10.2.1): 2012 IS 10322(Part 5/Sec 7)(Cl. 10.2.1): 2013
2406	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaries	Marking	IS 10322(Part 5/Sec 7)(Cl. 3.2): 2013 IS 10322(Part 5/Sec 5)(Cl. 3.2): 2013 IS 10322(Part 5/Sec 3)(Cl. 3.2): 2012 IS 10322(Part 5/Sec 6)(Cl. 3.2): 2013 IS 10322(Part 5/Sec 2)(Cl. 3.2): 2012 IS 10322 (Part 5 /Sec 1)(Cl. 3.2): 2012 IS 10322 (Part 1)(Cl. 3.2) : 2014 IS 10322(Part 5/Sec 8)(Cl. 3.2): 2013
2407	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaries	Protection against Accidental Contact with live parts / Protections against electric shock	"IS 10322 (Part 1)(Cl. 8.2.5) : 2014 IS 10322 (Part 5 /Sec 1)(Cl. 8.2.5): 2012 IS 10322(Part 5/Sec 5)(Cl. 8.2.5) : 2013 IS 10322(Part 5/Sec 3)(Cl. 8.2.5): 2012 IS 10322(Part 5/Sec 6)(Cl. 8.2.5): 2013 IS 10322(Part 5/Sec 7)(Cl. 8.2.5): 2013 IS 10322(Part 5/Sec 2)(Cl. 8.2.5): 2012 IS 10322(Part 5/Sec 8)(Cl. 8.2.5): 2013"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 217 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2408	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaries	Provision for Protective Earthing / Provision for Earthing	IS 10322 (Part 5 /Sec 1)(Cl. 7.2.3): 2012 IS 10322 (Part 1)(Cl. 7.2.3) : 2014 IS 10322(Part 5/Sec 8)(Cl. 7.2.3): 2013 IS 10322(Part 5/Sec 2)(Cl. 7.2.3): 2012 IS 10322(Part 5/Sec 7)(Cl. 7.2.3): 2013 IS 10322(Part 5/Sec 6)(Cl. 7.2.3): 2013 IS 10322(Part 5/Sec 3)(Cl. 7.2.3): 2012 IS 10322(Part 5/Sec 5) (Cl. 7.2.3): 2013
2409	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Moisture Resistance / Humidity Test	Moisture Resistance / Humidity Test	"IS 10322 (Part 1)(Cl. 9.3) : 2014 IS 10322 (Part 5 /Sec 1)(Cl. 9.3): 2012 IS 10322(Part 5/Sec 8)(Cl. 9.3): 2013 IS 10322(Part 5/Sec 2)(Cl. 9.3): 2012 IS 10322(Part 5/Sec 7)(Cl. 9.3): 2013 IS 10322(Part 5/Sec 6)(Cl. 9.3): 2013 IS 10322(Part 5/Sec 3)(Cl. 9.3): 2012 IS 10322(Part 5/Sec 5)(Cl. 9.3): 2013"
2410	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self-Ballasted LED lamps for general lighting services Part-1 Safety requirements	Ball Pressure Test	"IS 16102 – Part 1 (Cl. 11): 2012 EN 62560 (Cl. 11): 2012 IEC 62560(Cl. 11): 2011"
2411	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self-Ballasted LED lamps for general lighting services Part-1 Safety requirements	Creepage Distances and Clearances Test	"EN 62560(Cl. 14): 2012 IEC 62560(Cl. 14): 2011 IS 16102 – Part 1 (Cl. 14): 2012"
2412	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self-Ballasted LED lamps for general lighting services Part-1 Safety requirements	Insulation Resistance Test	"IEC 62560(Cl. 8): 2011 EN 62560(Cl. 8): 2012 IS 16102 – Part 1(Cl. 8) : 2012"
2413	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self-Ballasted LED lamps for general lighting services Part-1 Safety requirements	Marking	"IS 16102 – Part 1 (Cl. 5): 2012 EN 62560(Cl. 5): 2012 IEC 62560(Cl. 5): 2011"
2414	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self-Ballasted LED lamps for general lighting services Part-1 Safety requirements	Protection against Accidental Contact with live parts / Protections against electric shock	"IS 16102 – Part 1(Cl. 7) : 2012 IEC 62560(Cl. 7): 2011 EN 62560(Cl. 7): 2012"
2415	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	"Empty enclosures for low-voltage switchgear and controlgear assemblies — General requirements"	"Degree of protection against ingress of water as indicated by second characteristic numeral"	(Clause No. 9.8.2)IEC 62208
2416	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	"Empty enclosures for low-voltage switchgear and controlgear assemblies — General requirements"	Continuity of the protective circuit	(Clause No. 9.11)IEC 62208

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 218 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2417	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	"Empty enclosures for low-voltage switchgear and controlgear assemblies — General requirements"	Continuity of the protective circuitl	(Clause No. 9.11)EN 62208
2418	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	"Empty enclosures for low-voltage switchgear and controlgear assemblies — General requirements"	Degree of protection against external mechanical impacts (IK code)	(Clause No. 9.7)EN 62208
2419	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	"Empty enclosures for low-voltage switchgear and controlgear assemblies — General requirements"	Degree of protection against external mechanical impacts (IK code)	(Clause No. 9.7)IEC 62208
2420	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	"Empty enclosures for low-voltage switchgear and controlgear assemblies — General requirements"	Degree of protection against the ingress of solid foreign objects	(Clause No. 9.8.1.2) EN 62208
2421	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	"Empty enclosures for low-voltage switchgear and controlgear assemblies — General requirements"	Degree of protection against the ingress of solid foreign objects	(Clause No. 9.8.1.2)IEC 62208
2422	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	"Empty enclosures for low-voltage switchgear and controlgear assemblies — General requirements"	Enclosures without metal elements inside the protected space	(Clause No. 9.10.3) IEC 62208
2423	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	"Empty enclosures for low-voltage switchgear and controlgear assemblies — General requirements"	Enclosures without metal elements inside the protected space	(Clause No. 9.10.3)EN 62208
2424	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	"Empty enclosures for low-voltage switchgear and controlgear assemblies — General requirements"	Marking	(Clause No. 9.3)EN 62208
2425	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	"Empty enclosures for low-voltage switchgear and controlgear assemblies — General requirements"	Marking	Cl: 9.3 IEC 62208
2426	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies - Part 1: General rules	Clearance and Creepage distances (Clause No. 8.3.2 & 8.3.3)	EN 61439-1
2427	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies - Part 1: General rules	Clearance and Creepage distances (Clause No. 8.3.2 & 8.3.3)	IEC 61439-1
2428	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies - Part 1: General rules	Protection against Electric Shock (Earth Continuity Test) (Clause No. 8.4.3.2.2)	EN 61439-1
2429	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies - Part 1: General rules	Protection against Electric Shock (Earth Continuity Test) (Clause No. 8.4.3.2.2)	IEC 61439-1
2430	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies - Part 1: General rules	Temperature-rise limits (Clause No. 9.2)	EN 61439-1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 219 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2431	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies - Part 1: General rules	Temperature-rise limits (Clause No. 9.2)	IEC 61439-1
2432	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies	Clearance and Creepage distances (Clause No. 8.3.2 & 8.3.3)	EN 61439-2
2433	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies	Clearance and Creepage distances (Clause No. 8.3.2 & 8.3.3)	IEC 61439-2
2434	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies	Protection against Electric Shock (Earth Continuity Test) (Clause No. 8.4.3.2.2)	EN 61439-2
2435	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies	Protection against Electric Shock (Earth Continuity Test) (Clause No. 8.4.3.2.2)	IEC 61439-2
2436	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies	Temperature-rise limits (Clause No. 9.2)	EN 61439-2
2437	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies	Temperature-rise limits (Clause No. 9.2)	IEC 61439-2
2438	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Electrical connections and mechanical fixings	(Clause. 17)IS 616 : 2017 IEC 60065
2439	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Fault Condition /Electric shock hazard	(Clause. 11,11.1)IS 616 : 2017 IEC 60065
2440	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Fixing of actuating elements	(Clause 12.2) IS 616: 2017 IEC 60065
2441	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Resistance to external forces	(Clause. 9.1.7)IEC 60065 : 2014 IS 616
2442	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Resistance to fire	(Clause 20)IEC 60065 : 2014 IS 616
2443	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Telescoping or rod antennas	(clause 12.6,12.6.1,12.6.2) IS 616 : 2017 IEC 60065
2444	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Additional requirements for apparatus with protection against splashing water	(Clause. Annex A to A 10.3.2) IEC 60065 : 2014 IS 616
2445	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Antenna coaxial sockets mounted on the apparatus- (Endurance, Impact, Torque)	(clause 12.5) IEC 60065 : 2014 IS 61

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	220 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2446	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Apparatus to be connected to the TELECOMMUNICATION NEWTORKS	(Annex B) IEC 60065 :2014 IS 616
2447	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Battery mould stress relief	IEC 60065: (Clause 14.11.4)
2448	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Battery mould stress relief	(Clause 14.11.4) IEC 60065 : 2014 IS 616
2449	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Battery replacement test	(Clause. 12.7.3.3)IS 616 : 2017 IEC 60065
2450	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Bump Test	(clause 12.1.2) IS 616 : 2017 IEC 60065
2451	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Clearances and Creepage Distances	(Clause.13) IS 616 : 2017 IEC 60065
2452	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Clearances	(Clause. 13.3) IS 616 : 2017 IEC 60065
2453	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Constructional requirements with regard to the protection against electric shock	(Clause 8.3) IS 616: 2017 IEC 60065
2454	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Constructional requirements with regard to the protection against electric shock	(Clause.8.8, 8.9,8.10, 8.11, 8.18 & 8.21) IS 616 : 2017 IEC 60065
2455	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Creapage Distances	(Clause. 13.4) IEC 60065 : 2014 IS 616
2456	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Crush test	(Clause. 12.7.3.6) IS 616 :2017 IEC 60065
2457	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Determination of ACCESSIBLE parts	(Clause. 9.1.1.3) IS 616 : 2017 IEC 60065
2458	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Determination of HAZARDOUS LIVE parts	(Clause. 9.1.1.2) IS 616 : 2017 IEC 60065
2459	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Determination of working voltage	(Clause. 13.2) IEC 60065 : 2014 IS 616
2460	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Devices forming a part of the mains plug	(Clause 15.4,15.4.1) IS 616:2017 IEC 60065
2461	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Drawers	(Clause. 12.4) IS 616 :: 2017 IEC 60065:
2462	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Drop Test	(Clause. 12.1.5 & 12.7.3.4) IS 616: 2017 IEC 60065
2463	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	External flexible cords - Push Pull Test	(Clause 16.5)IS 616:2017 IEC 60065

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 221 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2464	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Fragmentation test	(Clause. 19.6.2) IS 616 :2017 IEC 60065
2465	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Heat resistance of insulating material	(Clause 7.2) IEC 60065:2014 IS 616::2017
2466	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Heat run test	(Clause. 8.17)IEC 60065 : 2014 IS 616
2467	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Heating	(Clause 11.2)IEC 60065 : 2014 IS 616
2468	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Heating under normal operating condition	(Clause. 7) IEC 60065: 2014 IS 616
2469	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Humidity Treatment	(Clause. 10.3) IEC 60065 : 2014 IS 616
2470	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Identifications and supply ratings	(Clause. 5.2) IS 616: 2017 IEC 60065
2471	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Impact Test	(Clause 12.1.4 & 12.7.3.5) IEC 60065 : 2014 IS 616
2472	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Insulation resistance and dielectric strength	(Clause. 10.4,10.4.1,10.4.2) IS 616 : 2017 IEC 60065
2473	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Jointed insulation / Enclosed and sealed parts	(Clause. 13.6 ,13.7 ,13.8) IS 616 :2017 IEC 60065
2474	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Markings and Instructions (Durability Test)	(Clause. 5)IS 616: 2017 IEC 60065
2475	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Mechanical strength of glass	(Clause 19.6 & 19.6.1) IS 616: :2017 IEC 60065
2476	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Mechanical Strength (Drop Test)	(Clause 15.4.3)IS 616: 2017 IEC 60065
2477	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Motor	(Clause. 14.10 ,14.10.1 ,14.10.4)IS 616: 2017 IEC 60065
2478	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Openings of the Enclosure	(Clause 9.1.3)IS 616: 2017 IEC 60065
2479	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Pre-set controls	(Clause. 9.1.5) IS 616: 2017 IEC 60065
2480	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	protection against electric shock - Access to live parts	(Clause 8.2, 8.13, 8.14)IS 616: 2017 IEC 60065
2481	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Provision for protective earthing (Earth bond test)	(Clause.15.2)IS 616: 2017 IEC 60065

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 222 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2482	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	REMOTE CONTROL devices held in hand	(Clause. 12.3)IS 616 : 2017 IEC 60065
2483	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Resistance to external forces	(Clause. 9.1.7) IS 616 :2017 IEC 60065 : 2014 EN 60065 : 2014
2484	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Stability and mechanical hazards	(Clause. 19.1,19.2,19.3,19.4) IS 616 : 2017 IEC 60065
2485	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Stress relief test	(Clause. 12.1.6 & 12.7.3.2) IS 616 : 2017 IEC 60065
2486	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Surge Test	(Clause. 10.2)IEC 60065 : 2014 IS 616
2487	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Terminals - Accessibility	(Clause 9.1.4) IEC 60065 : 2014 IS 616
2488	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	TERMINALS for external flexible cords and for permanent connection to the MAINS supply	(Clause. 15.3.2, 15.3.5 ,15.3.6 ,15.3.7)IS 616 : 2017 IEC 60065
2489	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Test of edges and corners	(Clause 19.5)IS 616: 2017 IEC 60065
2490	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Vibration test	(Clause 12.1.2)IEC 60065:2014 IS 616
2491	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Wall and ceiling mounting test/Requirements /Test methods / Compliance	(Clause. 19.7,19.7.1,19.7.2 ,19.7.3) IEC 60065:2014 IS 616
2492	ELECTRONICS- AUDIO EQUIPMENT	Audio, video and similar electronic apparatus - Safety requirements	Withdrawal of mains plug (Capacitor Discharge)	(Clause. 9.1.6) IS 616: 2017 IEC 60065
2493	ELECTRONICS- AUDIO EQUIPMENT	Audio/video, information and communication technology equipment	Devices forming a part of the mains plug	(Clause. 15.4.2) IEC 60065:2014 IS 616
2494	ELECTRONICS- AUDIO EQUIPMENT	CRT based data display monitor – monochrome (Computer Monitor)	Cold Test (Clause.10.4.5)	IS 14896
2495	ELECTRONICS- AUDIO EQUIPMENT	CRT based data display monitor – monochrome (Computer Monitor)	Damp Heat Test (Clause.10.4.4)	IS 14896
2496	ELECTRONICS- AUDIO EQUIPMENT	CRT based data display monitor – monochrome (Computer Monitor)	Dry Heat Test (Clause. 10.4.3)	IS 14896
2497	ELECTRONICS- AUDIO EQUIPMENT	Digital set top box for DTH	Cold Test (Clause.5.5)	IS 15245
2498	ELECTRONICS- AUDIO EQUIPMENT	Digital set top box for DTH	Cold Test (Clause.5.5)	IS 15377

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 223 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2499	ELECTRONICS- AUDIO EQUIPMENT	Digital set top box for DTH	Damp Heat Test (Clause.5.4)	IS 15245
2500	ELECTRONICS- AUDIO EQUIPMENT	Digital set top box for DTH	Damp Heat Test (Clause.5.4)	IS 15377
2501	ELECTRONICS- AUDIO EQUIPMENT	Digital set top box for DTH	Dry Heat Test (Clause.5.3)	IS 15245
2502	ELECTRONICS- AUDIO EQUIPMENT	Digital set top box for DTH	Dry Heat Test (Clause.5.3)	IS 15377
2503	ELECTRONICS- AUDIO EQUIPMENT	Digital set top box for DTH	Marking Test (Clause.4)	IS 15245
2504	ELECTRONICS- AUDIO EQUIPMENT	Digital set top box for DTH	Marking Test (Clause.4)	IS 15377
2505	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	"Conducted Emission Test (-160dBm to 30dBm)"	EN IEC 55025: 2022 (Cl. 6.3 and 6.4) CISPR 25:2021 (Cl. 6.3 and 6.4)
2506	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Emission Bandwidth	"FCC Part 15 Subpart E (Clause 15.407(a)): 2022 RSS 247 : 2015 WPC GSR No. 680 E: 2012 WPC GSR No. 1048 E: 2018 WPC GSR No. 673 E : 2008"
2507	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Operating Frequency Range	FCC (Part 18) Clause 18.301: 2021
2508	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	"Blocking and spurious response in EGPRS configuration Blocking and spurious response in DLMC configuration"	"ETSI EN 301 511 Clause 4.2.30: 2017 ETSI EN 301 511: Clause 4.2.31:2017"
2509	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	"Transmitter Radiated Power (ERP/EIRP) RF Output Power – Conducted Mode"	FCC Part 2 (Clasue 2.1046): 2022
2510	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	6 dB Bandwidth & Occupied Bandwidth	"RSS - 247 Issue 2 (Clause 5.2(a) & 6.2): 2017 FCC Part 15 Subpart E (Clause 15.407(e)): 2022 FCC (Part 15) Subpart C :(Cl. 15.247(a)(2): 2022"
2511	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	99% Occupied Bandwidth & X dB Bandwidth & Occupied Bandwidth	RSS- Gen Issue 5 &Amendment 2 (Clause 6.7): 2021
2512	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Adaptive frequency agility	ETSI EN 300 220-2: Clause 4.5.4:2017

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 224 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2513	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Adaptive Power Control	WPC GSR No. G.S.R. 853 E: 2021
2514	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Adaptivity	"ETSI EN 301 893 : Clause 4.2.7:2017 ETSI EN 300 328 : Clause 4.3.1.7 & 4.3.2.6:2019"
2515	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Additional requirements for FHSS equipment	ETSI EN 300 440: (Clause 4.2.6):2017
2516	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Adjacent Channel Power /TX Adjacent channel power at Extreme test condition	ETSI EN 300 220-3-1: Clause 4.2.5: 2016
2517	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Adjacent Channel Power	ETSI EN 300 220-2: Clause 4.5.4:2017
2518	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Adjacent channel rejection - control channels	ETSI EN 301 511: Clause 4.2.39:2017
2519	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Adjacent channel rejection - EGPRS	ETSI EN 301 511: Clause 4.2.40:2017
2520	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Adjacent channel rejection - speech channels (TCH/FS)	ETSI EN 301 511: Clause 4.2.38:2017
2521	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Adjacent channel rejection in DLMC configuration	ETSI EN 301 511: Clause 4.2.41:2017
2522	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Adjacent Chnnel Frequency Separation	WPC GSR No. G.S.R. 853 E : 2021
2523	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	AM suppression - control channels	ETSI EN 301 511 Clause 4.2.36: 2017
2524	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Band Edge Compliance	"FCC Part 22 Subpart H : (Cl. 22.917, 22.359):2022 FCC Part 24 Subpart E : (Cl. 24.238, 24.236):2022 FCC Part 27 Subpart M : (Cl. 5 "
2525	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Band Edge Compliance (Emissions in the Non Restricted Frequency Band)	RSS 247 : (Cl. 5.5):2015
2526	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Bandwidth Occupancy (20 dB Bandwidth) (Cl. 5.1(a)	RSS 247 : 2015
2527	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Bandwidth Occupancy (20 dB Bandwidth)	"RSS - 247 Issue 2 (Clause 5.1): 2017 FCC (Part 15) Subpart C: (Cl.15.247(a)(1)/15.215(c)/15.231(c) :2022 RSS- 210 Issue 10 & Amendment 1:(Cl. A.1.3) 2020"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 225 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2528	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Bandwidth Occupancy	RSS- 210 Issue 10 & Amendment 1 (Clause 7.1, Annex A to Annex K): 2020
2529	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Carrier bandwidth	WPC GSR No. 564 E: 2008
2530	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Carrier frequencies	ETSI EN 301 893 : Clause 4.2.1:2017
2531	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Carrier frequency separation	"FCC (Part 15) Subpart C :(Cl. 15.247(a)(1): 2022 RSS - 247 Issue 2 (Clause 5.1): 2017"
2532	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Clear channel assessment threshold	"ETSI EN 300 220-4: Clause 4.4.3:2017 ETSI EN 300 220-2: Clause 4.5.4:2017"
2533	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Compliance to 6LowPAN	IEEE 802.15.4: 2003
2534	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Condition for intentional Radiator to comply with periodic operation	"FCC Part 15 Subpart C: Cl. 15.231(a): 2022 RSS- 210 Issue 10 & Amendment 1:(Cl. A.1.1): 2020"
2535	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Conducted spurious emissions - MS in idle mode	ETSI EN 301 511 Clause 4.2.13: 2017
2536	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Control and monitoring functions (UE)	ETSI EN 301 908-1 (Clause 4.2.4):2021
2537	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Designated Frequencies	ETSI EN 302 208 V3.1.1 Cl. 4.2.2: 2020
2538	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Designation of Centre Frequencies & frequency error	ETSI EN 302 502 : Clause 4.2.1:2017
2539	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Duty cycle	WPC GSR No. 1047 E: 2018
2540	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Duty cycle	WPC GSR No. 1047 E: 2018
2541	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Duty cycle	WPC GSR No. 1047 E: 2018
2542	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Duty cycle	WPC GSR No. 1047 E: 2018
2543	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Duty cycle	WPC GSR No. 1047 E: 2018
2544	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Duty Cycle	WPC GSR No. G.S.R. 853 E: 2021

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 226 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2545	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Duty cycle, Tx-Sequence Tx-gap	ETSI EN 300 328 : Clause 4.3.1.3 & 4.3.2.4:2019
2546	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Dynamic Frequency Selection (DFS)	"ETSI EN 301 893 : (Cl. 4.2.6):2017 ETSI EN 302 502: Clause 4.2.6:2017"
2547	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Dynamic Frequency Selection (DFS)	"FCC Part 15 Subpart E (Clause 15.407(h)): 2022 RSS - 247 Issue 2 (Clause 6.3): 2017 WPC GSR No. 1048 E: 2018"
2548	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Effective Radiated Power (ERP)	FCC Part 22 Subpart H Clause 22.913 : 2021
2549	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	EGPRS Transmitter output power	ETSI EN 301 511 : Clause 4.2.28:2017
2550	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	EIRP	FCC Part 24 Subpart E Clause 24.232 (c): 2022
2551	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Emissions in the Non Restricted Frequency Band	FCC (Part 15) Subpart C: (Cl 15.247(d): 2022
2552	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Equivalent isotropically radiated power Measurement	ETSI EN 300 440 Clause 4.2.2 : 2017
2553	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Field Stregth of any emission within the band 13.553 to 13.567MHz	FCC Part 15 Subpart C (Clause 15.225(a)(b)(c)(d)): 2022
2554	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Field Strength of Spurious Radiation	"FCC Part 27 (Clause Cl. 27.53(h)): 2022 FCC Part 24 Subpart E Clause 24.238, 24.236: 20222 FCC Part 22 Subpart H Clause 22.917, 22.359: 2022FCC Part 2 Clause 2.1053(a): 2022"
2555	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Field strength	WPC GSR No. 1047 E: 2018

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	227 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2556	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Frequency band	"WPC GSR No. 34 E : 2007 WPC GSR No. 1047 E: 2018 WPC GSR No. 680 E: 2012 WPC GSR No. 36 E: 2007 WPC GSR No. G.S.R. 853 E : 2021 WPC GSR No. 35 E: 2007 WPC GSR No. 37 E : 2007 WPC GSR No. 884 E Clause No.1: 2010 WPC GSR No. 90 E Clause No.1: 2009 WPC GSR No. 673 E Clause No.1: 2008 WPC GSR No. 38 E Clause No.1: 2007 WPC GSR No. 45 E Clause No.3: 2005"
2557	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Frequency Block & Interoperability	RSS-130 (Clause 4.3 & 4.4): 2019
2558	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Frequency error and phase error in GPRS multislot configuration	ETSI EN 301 511 Clause 4.2.4: 2017
2559	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Frequency OccupationAccumulated Transmit Time & Hopping Sequence	ETSI EN 300 328 : Clause 4.3.1.4:2019
2560	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Frequency Stability	"FCC Part 22 Subpart H: (Cl. 22.355):2018 FCC Part 24 Subpart E :(Cl. 24.235): 2022 FCC Part 27 Sub part M : (Cl. 27.54):2022 RSS-132: (Cl. 5.3): 2013 RSS-133 : (Cl. 6.3):2018 RSS-139: (Cl. 6.4):2015 FCC Part 2 : (Cl.2.1055): 2022 RSS-130 (Clause 4.5): 2019 FCC Part 15 Subpart E (Clause 15.407(g): 2022 WPC GSR No. G.S.R. 853 E : 2021"
2561	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Frequency stability under low voltage conditions	ETSI EN 302 208 V3.1.1 Cl. 4.3.2: 2020
2562	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Frequency tolerance	"FCC Part 22 Subpart H (Clause 22.355): 2022 FCC Part 15 Subpart C :(Cl. 15.225(e) :2022 RSS- 210 Issue 10 & Amendment 1: (Cl. B.6):2020"
2563	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Geo-Location capability	"ETSI EN 301 893 : Clause 4.2.10:2017 ETSI EN 300 328 : Clause 4.3.1.13 & 4.3.2.12:2019"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 228 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2564	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	GPS in new mobile hand set	G.S.R 1441 (E) / G.S.R. 436 (E).: 2017
2565	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Hopping Frequency Separation	ETSI EN 300 328 : Clause 4.3.1.5:2019
2566	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Improved Receiver Blocking and spurious response - control channels for 2W MS supporting the R-GSM or ER-GSM frequency band not supporting speech	ETSI EN 301 511 : Clause 4.2.25:2017
2567	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Improved Receiver Blocking and spurious response - control channels for 8W MS supporting the R-GSM or ER-GSM frequency band not supporting speech	ETSI EN 301 511 : Clause 4.2.24:2017
2568	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Improved Receiver Blocking and spurious response - speech channels for 2W MS supporting the R-GSM or ER-GSM frequency band	ETSI EN 301 511 : Clause 4.2.23:2017
2569	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Improved Receiver Blocking and spurious response - speech channels for 8W MS supporting the R-GSM or ER-GSM frequency band	ETSI EN 301 511 : Clause 4.2.22:2017
2570	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Intermodulation rejection - control channels	ETSI EN 301 511: Clause 4.2.33:2017
2571	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Intermodulation rejection - EGPRS	ETSI EN 301 511: Clause 4.2.34:2017
2572	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Intermodulation rejection - speech channels	ETSI EN 301 511: Clause 4.2.32:2017
2573	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Interoperability Requirement	RSS-139 :(Cl. 6.8) 2015
2574	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Maximum conducted output power	"FCC Part 15 Subpart E (Clause 15.407(a)): 2022 RSS - 247 Issue 2 (Clause 5.1, 5.2, 5.4 & 6.2): 2017 FCC (Part 15) Subpart C : Cl. 15.247(b):2022"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 229 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2575	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Maximum Effective Radiated Power	"WPC GSR No. 564 E: 2008 WPC GSR No. 680 E: 2012 WPC GSR No. 90 E Clause No.2: 2009 WPC GSR No. 673 E Clause No.2: 2008 WPC GSR No. 38 E Clause No.3: 2007 WPC GSR No. 45 E Clause No.2: 2005"
2576	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Maximum out power of transmitter	"WPC GSR No. 90 E: 2009 WPC GSR No. 38 E Clause No.2: 2007 WPC GSR No. 45 E Clause No.1: 2005"
2577	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Maximum power spectral density	"FCC (Part 15) Subpart E: (Cl. 15.407(a):2022 FCC (Part 15) Subpart C : (Cl. 15.247(e) :2022 RSS - 247 Issue 2 (Clause 5.2, 5.3(b) & 6.2): 2017"
2578	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Maximun Conducted O/P Power	WPC GSR No. 1048 E: 2018
2579	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Maximun EIRP	"WPC GSR No. 34 E : 2007 WPC GSR No. 36 E: 2007 WPC GSR No. 1048 E: 2018 WPC GSR No. 35 E: 2007 WPC GSR No. 37 E : 2007"
2580	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Maximun electric or magnetic field strength	WPC GSR No. 884 E Clause No.2: 2010
2581	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Maximun Power of transmitter	"WPC GSR No. 36 E: 2007 WPC GSR No. 35 E: 2007 WPC GSR No. 37 E : 2007"
2582	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Medium Utilization	ETSI EN 300 328 : Clause 4.3.1.6 & 4.3.2.5:2019
2583	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Minimum Input level for Reference Performance - EGPRS	ETSI EN 301 511: Clause 4.2.45:2017
2584	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Minimum Input level for Reference Performance - GPRS	ETSI EN 301 511: Clause 4.2.44:2017
2585	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Modulation Bandwidth	ETSI EN 300 330: Clause 4.3.3:2017
2586	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Nominal and occupied channel bandwidth	ETSI EN 301 893 : Clause 4.2.2:2017

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	230 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2587	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Number of hopping channel	"FCC (Part 15) Subpart C : (Cl. 15.247 (a)(1):2022 RSS - 247 Issue 2 (Clause 5.1): 2017"
2588	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Occupied Bandwidth	FCC Part 2 (Clause 2.1049): 2022
2589	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Occupied Channel Bandwidth	ETSI EN 300 328 : Clause 4.3.1.8 & 4.3.2.7:2019
2590	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Opearating frequency	"ETSI EN 300 220-2: Clause 4.2.1:2017 ETSI EN 300 220-3-1: Clause 4.2.2:2016"
2591	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Opearating frequency	ETSI EN 300 220-3-2: Clause 4.2.1:2017
2592	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Opearating frequency	ETSI EN 300 220-4: Clause 4.2.1:2017
2593	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Operating Frequency Range	ETSI EN 300 330 : Clause 4.3.2:2017
2594	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Out of band emission	WPC GSR No. 1048 E: 2018
2595	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Out-of-synchronization handling of output power	ETSI EN 301 908-2 (Clause : 4.2.11): 2020
2596	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Output RF spectrum in EGPRS configuration	ETSI EN 301 511 Clause 4.2.29: 2017
2597	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Output RF spectrum in GPRS multislot configuration	ETSI EN 301 511 : Clause 4.2.11:2017
2598	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Panic button in new Mobile handset	G.S.R 1441 (E) / G.S.R. 436 (E).: 2017
2599	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Permitted range of operating frequencies	"ETSI EN 300 330 : Clause 4.3.1:2017 ETSI EN 300 440: Clause 4.2.3:2017"
2600	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Polite spectrum access timing parameters	"ETSI EN 300 220-4: Clause 4.4.4:2017 ETSI EN 300 220-2: Clause 4.5.3:2017"
2601	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Power Spectral Density	ETSI EN 300 328 : Clause 4.3.2.3:2019
2602	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Power spectral density	WPC GSR No. 1047 E: 2018
2603	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Radiated Emission Test	FCC (Part 18) Clause 18.305: 2021

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	231 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2604	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Radiated Emissions & Field Strength of Fundamental Emissions &Restricted Bands of Operation	RSS- Gen Issue 5 &Amendment 2 (Cl 8.9 & 8.10): 2021
2605	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Radiated Emissions & Field Strength of Fundamental Emissions	RSS- 210 Issue 10 & Amendment 1 (Clause 7.3): 2020
2606	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Radiated Emissions (BS & Repeater)	ETSI EN 301 908-1 (Clause 4.2.3):2021
2607	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Radiated emissions (UE)	ETSI EN 301 908-1 (Clause 4.2.2):2021
2608	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Radiated spurious emissions - MS allocated a channel	ETSI EN 301 511 Clause 4.2.16: 2017
2609	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Radiated Spurious Emissions - MS in idle Mode	ETSI EN 301 511 Clause 4.2.17: 2017
2610	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Radiated spurious emissions for MS supporting the RGSM or ER-GSM frequency band – MS allocated a channel	ETSI EN 301 511 Clause 4.2.18: 2017
2611	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Radiated spurious emissions for MS supporting the RGSM or ER-GSM frequency band – MS in idle mode	ETSI EN 301 511 Clause 4.2.19: 2017
2612	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver Adjacent Channel Selectivity (ACS)	"ETSI EN 301 908-2 (Clause 4.2.6): 2020 ETSI EN 301 908-13 (Clause 4.2.6): 2019 ETSI EN 302 208 : (Clause 4.4.1) :2020"
2613	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver Blocking	"ETSI EN 302 502: Clause 4.2.7:2017 ETSI EN 301 893 : Clause 4.2.8:2017 ETSI EN 300 328 : Clause 4.3.1.12 & 4.3.2.11:2019 ETSI EN 300 220-3-2: Clause 4.4.1:2017 ETSI EN 300 220-4: Clause 4.4.2:2017 ETSI EN 300 220-2: Clause 4.4.2:2017 ETSI EN 300 220-3-1: Clause 4.4.2/5.4.3/6.4.3:2016"
2614	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver Blocking and spurious response – speech channels	ETSI EN 301 511 : Clause 4.2.20:2017

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 232 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2615	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver Blocking and spurious response – speech channels for MS supporting the R-GSM or ER-GSM frequency band	ETSI EN 301 511 : Clause 4.2.21:2017
2616	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver blocking characteristics	"ETSI EN 301 908-2 (Clause : 4.2.7): 2020 ETSI EN 301 908-13 (Clause 4.2.7): 2019"
2617	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver blocking or desensitization	"ETSI EN 302 208 Clause 4.4.2 : 2020 ETSI EN 300 330: Clause 4.4.4:2017 ETSI EN 300 440 : Clause 4.3.4:2017"
2618	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver blocking	ETSI EN 303 413 V1.2.1 Clause 4.2.1 :2021
2619	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver Intermodulation characteristics	"ETSI EN 301 908-2 (Clause : 4.2.9): 2020 ETSI EN 301 908-13 (Clause 4.2.9): 2019"
2620	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver Radiated emissions	RSS- Gen Issue 5 &Amendment 2 (Clause 7.3): 2021
2621	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver Reference Sensitivity level	"ETSI EN 301 908-2 (Clause : 4.2.13): 2020 ETSI EN 301 908-13 (Clause 4.2.12): 2019"
2622	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver Selectivity	WPC GSR No. G.S.R. 853 E: 2021
2623	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver sensitivity	" ETSI EN 302 208: (Clause 4.4.5):2020 ETSI EN 300 220-2: Clause 4.4.1:2017 ETSI EN 300 220-4: Clause 4.4.1:2017"
2624	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver Sensitivity	WPC GSR No. G.S.R. 853 E: 2021
2625	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver Spurious emissions	"ETSI EN 302 502 Clause 4.2.5: 2017 ETSI EN 301 893 Clause 4.2.5: 2017 ETSI EN 300 328 Clause 4.3.1.11 and 4.3.2.10: 2019 ETSI EN 301 908-2 (Clause : 4.2.10): 2020 ETSI EN 301 908-13 (Clause 4.2.10): 2019 ETSI EN 302 208 V3.1.1 Cl. 4.4.3: 2020 ETSI EN 300 330 Clause 4.4.2: 2017"
2626	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver Spurious Emissions	"RSS-133 :Clause 6.6: 2018 RSS-132 :(Cl. 5.6): 2013 ETSI EN 303 413 V1.1.1 Clause 4.2.2 :2021"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 233 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2627	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver spurious response rejection	"ETSI EN 302 208 : (Clause 4.4.4) :2020 ETSI EN 300 220-3-1: Clause 5.4.5/6.4.5:2016"
2628	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver spurious response	"ETSI EN 301 908-2 (Clause : 4.2.8): 2020 ETSI EN 301 908-13 (Clause 4.2.8): 2019"
2629	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Receiver Total Radiated Sensitivity (TRS)	ETSI EN 301 908-2 (Clause : 4.2.14): 2020
2630	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Reference sensitivity - FACCH/F	ETSI EN 301 511: Clause 4.2.43:2017
2631	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Reference sensitivity - TCH/FS	ETSI EN 301 511: Clause 4.2.42:2017
2632	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Reference sensitivity - TCH/FS for MS supporting the R-GSM or ER-GSM band	ETSI EN 301 511: Clause 4.2.46:2017
2633	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	RF Output Power	ETSI EN 300 328 : Clause 4.3.1.2& 4.3.2.2:2019
2634	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	RF output power Transmit Power Control (TPC) Power Density	ETSI EN 301 893 : Clause 4.2.3:2017
2635	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Rx Adjacent Channel Saturation	ETSI EN 300 220-3-1: Clause 5.4.4/6.4.4:2016
2636	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Rx Adjacent Channel Selectivity	ETSI EN 300 220-3-1: Clause 5.4.2/6.4.2:2016
2637	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Rx Behaviour at high wanted signal level	ETSI EN 300 220-3-1: Clause 5.4.6/6.4.6:2016
2638	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	SAR Display for Mobile Handset	TEC/GR/SAR/001/01.MAR.09
2639	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Specific Absorption Rate (SAR)	"IEEE/IEC 62209-1528-2020 IEC 62209-1: 2005 IEC 62209-2: 2010 RSS 102 Issue 5 & Amendment 1: 2021"
2640	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Specific Absorption Rate (SAR)	EN 62209-1 : 2016
2641	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Spectrum access techniques	ETSI EN 300 440: Clause 4.4:2017

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	234 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2642	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Spurious Emissions at Antenna Terminal	"FCC Part 27 (Cluase 27.53): 2022 FCC Part 24 Subpart E (Clause 24.238, 24.236): 2022 FCC Part 22 Subpart H (Cluase 22.917, 22.359): 2022"
2643	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Spurious Emissions	FCC Part 2 (Cl. 2.1051): 2022
2644	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Spurious Radiated Emissions, Restricted Bands of Operation & Field Strength of Fundamental Emissions	"FCC Part 15 Subpart C (Clause 15.225 a,b,c,d), (15.231 (b)/ 15.209/15.205): 2022 FCC Part 15 Subpart E (Cl. 15.407 (b)): 2022"
2645	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Spurious radiation	ETSI EN 300 440 Clasue 4.3.5 : 2017
2646	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Tag Radiated power	ETSI EN 302 208 V3.1.1 Cl. 4.5.1: 2020
2647	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Tag Unwanted emissions	ETSI EN 302 208 V3.1.1 Cl. 4.5.2: 2020
2648	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Time of occupancy	"FCC (Part 15) Subpart C : (Cl. 15.247(a)(1):2022 RSS - 247 Issue 2 (Clause 5.1 & 5.3): 2017"
2649	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Total Radiated Power (TRP)	ETSI EN 301 908-2 (Clause : 4.2.15): 2020
2650	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	TPC	WPC GSR No. 1048 E: 2018
2651	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transient Power/TX Transient	"ETSI EN 300 220-2: Clause 4.3.6:2017 ETSI EN 300 220-3-1 Clause 4.2.7: 2016 ETSI EN 300 220-3-2: Clause 4.3.5:2017 ETSI EN 300 220-4 : Clause 4.3.5:2017"
2652	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmission spectrum masks	ETSI EN 302 208 V3.1.1 Cl. 4.3.5: 2020
2653	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmission spectrum masks	ETSI EN 302 208 V3.1.1 Cl. 4.3.5: 2020
2654	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmission times	ETSI EN 302 208 V3.1.1 Cl. 4.3.7: 2020
2655	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmit Power	WPC GSR No. 34 E: 2007

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	235 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2656	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter - Frequency error and phase error in HSCSD multislot configuration	ETSI EN 301 511 : Clause 4.2.3:2017
2657	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter – Output RF spectrum	ETSI EN 301 511 : Clause 4.2.6:2017
2658	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter – Output RF spectrum for MS supporting the RGSM or ER-GSM frequency band	ETSI EN 301 511 : Clause 4.2.9:2017
2659	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter – Output RF spectrum in HSCSD multislot configuration	ETSI EN 301 511 : Clause 4.2.8:2017
2660	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter Adjacent Channel Leakage power Ratio (ACLR)	ETSI EN 301 908-2 (Clause : 4.2.12): 2020
2661	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter adjacent channel leakage power ratio	ETSI EN 301 908-13 (Clause 4.2.11): 2019
2662	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter antenna beam-width	ETSI EN 302 208 V3.1.1 Cl. 4.3.4: 2020
2663	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter Conducted Spurious Emission	ETSI EN 300 330 : Clause 4.3.7:2017
2664	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter -Frequency error and phase error	ETSI EN 301 511 : Clause 4.2.1:2017
2665	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter -Frequency error under multipath and interference conditions	ETSI EN 301 511 : Clause 4.2.2:2017
2666	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter Frequency Stability	ETSI EN 300 330: Clause 4.3.10:2017
2667	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter H-Filed Requirements	ETSI EN 300 330 Clause 4.3.4 : 2017
2668	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter maximum output power	"ETSI EN 301 908-2 (Clause : 4.2.2): 2020 ETSI EN 301 908-13 (Clause 4.2.2) : 2019"
2669	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter minimum output power	"ETSI EN 301 908-2 (Clause : 4.2.5): 2020 ETSI EN 301 908-13 (Clause 4.2.5): 2019"
2670	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter Output Power & EIRP	"RSS - 132 Clause 5.4 : 2013 RSS-133 : (Cl. 4.1/6.4):2018 RSS - 139 Clause 6.5: 2015 WPC GSR No. 1047 E: 2018"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	236 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2671	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter output power and burst timing	ETSI EN 301 511 : Clause 4.2.5:2017
2672	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter output power and burst timing in HSCSD multislot configurations	ETSI EN 301 511 : Clause 4.2.7:2017
2673	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter output power in GPRS multislot configuration	ETSI EN 301 511 : Clause 4.2.10:2017
2674	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter Power control	ETSI EN 302 502: Clause 4.2.4:2017
2675	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter Power control	RSS-139 : (Cl. 6.7):2015
2676	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter Power	WPC GSR No. 564 E: 2008
2677	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter Radiated E-filed	ETSI EN 300 330: (Clause 4.3.6) :2017
2678	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter Radiated Power & effective Radiated Power	RSS-130 : (Cl. 4.6):2019
2679	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter Radiated Power (ERP/EIRP)	FCC Part 27 (Clause 27.50(d)(4)): 2022
2680	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter Radiated Spurious Domain Emission	ETSI EN 300 330 Clause 4.3.8 : 2017
2681	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter Radiated Spurious Domain Emission >30MHz	ETSI EN 300 330 Clause 4.3.9: 2017
2682	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter RF Carrier Current	ETSI EN 300 330: (Clause 4.3.5)2017
2683	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter RF Output Power, EIRP and EIRP Spectral Density	ETSI EN 302 502 : Clause 4.2.2:2017
2684	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter spectrum emission mask	"ETSI EN 301 908-2 (Clause : 4.2.3): 2020 ETSI EN 301 908-13 (Clause 4.2.3): 2019"
2685	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter Spurious Emission/ Transmitter unwanted emissions in the spurious domain	ETSI EN 300 328 Clause 4.3.1.10 and 4.3.2.9: 2019
2686	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter spurious emissions	"ETSI EN 301 908-2 (Clause : 4.2.4): 2020 ETSI EN 301 908-13 (Clause 4.2.4): 2019 ETSI EN 302 208 V3.1.1 Cl. 4.3.6: 2020"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	237 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2687	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter unwanted emissions in the OOB domain	ETSI EN 300 328 : Clause 4.3.1.9 & 4.3.2.8:2019
2688	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter unwanted emissions outside the 5 GHz RLAN bands	ETSI EN 301 893 Clause 4.2.4.1: 2017
2689	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter unwanted emissions within the 5 GHz RLAN bands	ETSI EN 301 893 : Clause 4.2.4.2:2017
2690	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter Unwanted Emissions	"RSS - 133 Clause 6.5 : 2018 RSS - 130 Clause 4.4 & 4.7 : 2019 RSS-132: (Cl. 5.5):2013 RSS-139 :(Cl. 6.6): 2015"
2691	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Transmitter unwanted emissions	ETSI EN 302 502 Clause 4.2.3: 2017
2692	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	TX Adaptive Power control	ETSI EN 300 220-2: Clause 4.3.9:2017
2693	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	TX behavior under low voltage conditions	"ETSI EN 300 220-3-1: Clause 4.2.8:2016 ETSI EN 300 220-3-2: Clause 4.3.7:2017 ETSI EN 300 220-4: Clause 4.3.7:2017 ETSI EN 300 220-2: Clause 4.3.8:2017"
2694	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	TX Duty cycle	"ETSI EN 300 220-3-1: Clause 4.2.42016 ETSI EN 300 220-4 : Clause 4.3.2:2017 ETSI EN 300 220-3-2: Clause 4.3.2:2017 ETSI EN 300 220-2: Clause 4.3.3:2017 ETSI EN 300 440: Clause 4.2.5.4:2017"
2695	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	TX effective radiated power	"ETSI EN 300 220-2 (Cl. 4.3.1): 2017 ETSI EN 302 208 V3.1.1 Cl. 4.3.3: 2020 ETSI EN 300 220-3-1 Clause 4.2.3: 2016 TSI EN 300 220-4 (Cl 4.3.1): 2017 ETSI EN 300 220-3-2 Clause 4.3.1: 2017"
2696	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	TX FHSS	ETSI EN 300 220-2: Clause 4.3.10:2017
2697	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Tx frequency error	"ETSI EN 300 220-3-1: Clause 4.2.6:2016 ETSI EN 302 208 V3.1.1 Cl. 4.3.1: 2020"
2698	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	TX Maximum e.r.p spectral density	ETSI EN 300 220-2: Clause 4.3.2:2017

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	238 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2699	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	TX Occupied Bandwidth	"ETSI EN 300 220-4: Clause 4.3.3:2017 ETSI EN 300 220-3-2: Clause 4.3.3:2017 ETSI EN 300 220-2: Clause 4.3.4:2017"
2700	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	TX out of band emissions	"ETSI EN 300 220-4: Clause 4.3.4:2017 ETSI EN 300 220-3-2 Clause 4.3.4: 2017 ETSI EN 300 220-2: Clause 4.3.5:2017"
2701	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	TX Short term behaviour	ETSI EN 300 220-2: Clause 4.3.11:2017
2702	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Unwanted emissions in the spurious domain	"ETSI EN 300 440 Clause 4.2.4 : 2017 ETSI EN 300 220-3- 2 Clasue 4.2.2 : 2017 ETSI EN 300 220-3-1 Clause 4.3.2 : 2016 ETSI EN 300 220-4 (Cl. 4.2.2): 2017 ETSI EN 300 220-3-2 Clause 4.2.2: 2017 ETSI EN 300 220-2 (Cl. 4.2.2): 2017"
2703	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Unwanted Emissions	"RSS - 247 Issue 2 (Clause 5.5 & 6.2.1.2): 2017 WPC GSR No. 36 E: 2007 WPC GSR No. 34 E : 2007 WPC GSR No. 35 E: 2007 WPC GSR No. 37 E : 2007"
2704	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	User Access Restrictions	"ETSI EN 302 502: Clause 4.2.8:2017 ETSI EN 301 893 : Clause 4.2.9:2017"
2705	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	User Access Restrictions	ETSI EN 301 893 : Clause 4.2.9:2017
2706	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	ZigBee Measurement/Testing	IEEE 802.15.4: 2003
2707	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	TX Adjacent channel power	"ETSI EN 300 220-4: Clause 4.3.6:2017 ETSI EN 300 220-3-2: Clause 4.3.6:2017"
2708	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	6 dB Bandwidth & Occupied Bandwidth	RSS 247 (Cl.5.2(a)): 2015
2709	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Acknowledgement	ETSI EN 300 220-3-1: Clause 6.2.2:2016
2710	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments- Radio	Adjacent channel selectivity	"ETSI EN 300 330: Clause 4.4.3:2017 ETSI EN 300 440: Clause 4.3.3:2017"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 239 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2711	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Humidity conditioning (Humidity Test) (Clause. 2.9.2)	IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2712	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Resistance to abnormal heat (Ball pressure test)	(Clause. 4.5.5) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2713	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Termination of conductors	(Clause. 3.1.9) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2714	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Conductor sizes to be connected / Wiring terminal sizes	(Clause. 3.3.4 / 3.3.5) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2715	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Conductor sizes to be connected / Wiring terminal sizes (Clause. 3.3.4 / 3.3.5)	CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2:
2716	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Limited current circuits	(Clause. 2.4) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	240 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2717	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Permanently connected equipment.	(Clause. 3.2.3) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2718	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Protection requirements	IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2719	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Protective earthing and bonding terminals	(Clause. 2.6.4.2) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2720	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Separation by a fire barrier (Clause 6.4.7.3)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2721	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Accessibility to electrical energy sources and safeguards - Compliance criteria (Clause 5.3.2.3)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	241 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2722	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Accessibility to electrical energy sources and safeguards - Contact requirements (Clause 5.3.2.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2723	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Additional safeguards for equipment containing a portable secondary lithium battery - Charging safeguards : Requirements and Compliance criteria (Annex M.4.2.1 and M.4.2.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2724	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Antenna interface test generator (Annex D.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2725	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Antenna terminal insulation - Test method (Clause 5.4.5.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2726	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Arcing PIS (Clause 6.2.3.1)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2727	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Audio amplifier abnormal operating conditions (Annex E.3)	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	242 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2728	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Audio amplifier normal operating conditions (Annex E.2)	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2729	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Audio signals (Clause 5.2.2.7)	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2730	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Backfeed safeguard in battery backed up supplies (Clause 5.8)	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2731	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Ball pressure test (Clause 5.4.1.10.3)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2732	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Battery replacement test (Clause 4.8.4.3)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2733	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Capacitance limits (Clause 5.2.2.3)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	243 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2734	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Capacitor discharge after disconnection of a connector (Clause 5.5.2.2)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2735	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Cart, stand or carrier impact test (Clause 8.10.4)	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2736	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Carts, stands, and similar carriers (Clause 8.10.3)	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2737	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Charge / discharge cycle test (Annex M.4.4.5)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2738	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Check of the charge / discharge function (Annex) M.4.4.4)	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2739	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Circuits intended for interconnection with building wiring - Limited power source (Test method and compliance criteria) (Annex Q.1.2)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 244 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2740	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Compliance criteria for crush test (Clause 4.8.5)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2741	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Compliance criteria for Equipment for direct insertion in to mains socket-outlets (Clause 4.7)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2742	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Compliance criteria for Fixing of conductors (Clause 4.6)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2743	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Consequence of entry test (Annex P.2.3.2)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2744	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Cord anchorages and strain relief for non-detachable power supply cords - Cord strain relief (Annex G.7.3.2.1)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 245 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2745	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Cord entry (Annex G.7.4)	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2746	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Cord strain relief - Strain relief and cord anchorage material (Annex G.7.3.2.4)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2747	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Cord strain relief - Strain relief mechanism failure (Annex G.7.3.2.2)	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2748	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Creepage distances (Clause 5.4.3.2)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2749	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Criteria for telephone ringing signals - Method A (Annex H.2)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2750	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Criteria for telephone ringing signals - Method B (Annex H.3 (H.3.1.1, H.3.1.2, H.3.1.3, H.3.1.4, H.3.2.1, H.3.2.2, H.3.2.3))	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	246 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2751	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Crush test (Clause 4.8.4.6)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2752	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Determining required withstand voltage (Clause 5.4.2.3.3)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2753	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Determining the adequacy of a clearance using an electric strength test (Clause 5.4.2.4)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2754	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Downward force test (Clause 8.11.3.1 & 8.6.2.3)	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2755	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Drop Test (Annex T.7 & Clause 4.8.4.4)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	247 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2756	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Durability, legibility and permanence of markings (Annex F.3.9)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2757	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Earthed accessible conductive parts (Clause 5.7.5)	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2758	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Electric strength of an insulating liquid (Clause 5.4.12.2)	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2759	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Electric strength test (Clause 5.4.9.1)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2760	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Electrical energy source classification for audio signals (Annex E.1)	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2761	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Enclosure impact test (Annex T.6)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	248 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2762	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Endurance requirement (Annex K.7.3 & K.7.4)	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2763	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Equipment containing work cells with MS3 parts (Clause 8.5.4.2)	IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2764	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Equipment identification markings (Annex F.3.2 (F.3.2.1 and F.3.2.2))	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2765	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Equipment IP rating marking (Annex F.3.7)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2766	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Equipment marking locations (Annex F.3.1)	IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2767	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Equipment markings related to equipment classification - Compliance criteria (Annex F.3.6.4)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	249 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2768	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Equipment mounted to a wall, ceiling or other structure (Clause 8.7.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2769	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Equipment rating markings (Annex F.3.3.8)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2770	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	External power supply output marking (Annex F.3.8)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2771	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Flammability test for fire enclosure and fire barrier integrity	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2772	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Flammability test for fire enclosure and fire barrier materials of equipment where the steady state power does not exceed 4000 W (Annex S.1)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	250 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2773	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Flammability test for fire enclosure materials of equipment with a steady state power exceeding 4000 W (Annex S.5)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2774	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Glass fragmentation test (Annex T.10)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2775	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Glass impact test (Annex T.9)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2776	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Glass slide test (Clause 8.6.4)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2777	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Handle strength (Clause 8.8.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2778	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Horizontal force test (Clause 8.6.5)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	251 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2779	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Humidity conditioning (Clause 5.4.8)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2780	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	IC that includes a capacitor discharge function (ICX) (Annex - G.16.3)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2781	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Impact test (Annex Y.6.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2782	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Impact test (Clause 4.8.4.5)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2783	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Impulse test (Annex D)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2784	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Impulse test generators (Annex D.1)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	252 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2785	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Input test (Annex B.2.5)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2786	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Instructions (Annex F.4)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2787	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Integrity of slide rail end stops (Clause 8.11.3.3)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2788	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Lateral push force test (Clause 8.11.3.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2789	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Letter symbols and graphical symbols - Compliance criteria (Annex F.2.3)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2790	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Limits for repetitive pulses (Clause 5.2.2.5)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	253 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2791	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Locked-rotor overload - Test method and Compliance criteria (Annex G.5.4.4)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2792	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Locked-rotor overload for DC motors - Alternative method (Annex G.5.4.6.3)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2793	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Locked-rotor overload for DC motors - Requirements and Test method and compliance criteria (Annex G.5.4.6)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2794	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Mandrel test (Clause 5.4.4.6.5)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2795	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Markings on terminals and operating devices (Annex F.3.5.7)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2796	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Maximum operating temperatures for materials, components and systems (Clause 5.4.1.4.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	254 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2797	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Measurement of touch current (Cl. 5.7.2.1)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2798	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Measurement of voltage (Clause 5.7.2.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2799	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Mechanical energy source classifications (Clause 8.2 (8.2.1, 8.2.2, 8.2.3, 8.2.4))	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2800	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Mechanical stability (Clause 8.10.5)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2801	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Metallized coatings and adhesives securing parts (Annex P.4.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2802	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Non-detachable cord bend protection - Requirements and Test method and compliance criteria (Annex G.7.5)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2803	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Overload test (Annex K.7.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	255 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2804	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Power measurement for worst-case fault (Clause 6.2.2.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2805	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Power measurement for worst-case power source fault (Clause 6.2.2.3)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2806	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Power source circuit classification - General (Clause 6.2.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2807	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Procedure 1 for determining clearance (Clause 5.4.2.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2808	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Prospective touch voltage and touch current associated with paired conductor cables (Clause 5.7.7.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	256 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2809	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Protection circuits for batteries provided within the equipment - Requirements, Test method and Compliance criteria (Annex M.3.1, M.3.2 and M.3.3)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2810	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Protection from electrolyte spillage (Annex M.9.1)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2811	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Protection from excessive dust - IP5X equipment (Annex Y.5.5.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2812	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Protection from excessive dust - IP6X equipment (Annex Y.5.5.3)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2813	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Protection from moisture (Annex Y.5.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2814	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Reduction of the likelihood of ignition under single fault conditions in PS2 circuits and PS3 circuits - Requirements, Test method and Compliance criteria (Clause 6.4.3 (6.4.3.1, 6.4.3.2 and 6.4.3.3))	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2815	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Relocation stability (Clause 8.6.3.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	257 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2816	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Requirements for a fire barrier (Clause 6.4.8.2.1)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2817	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Requirements for a fire enclosure (Clause 6.4.8.2.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2818	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Resistance of the protective bonding system - Test Method (Clause 5.6.6.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2819	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Resistance to corrosion (Annex Y.3)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2820	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Resistive PIS	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2821	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Resistor test (Annex G.10.3)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	258 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2822	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Ringing signals (Clause 5.2.2.6)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2823	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Risk of burn due to short-circuit during carrying (Annex M.5.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2824	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	RMS working voltage (Clause 5.4.1.8.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2825	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Running overload for DC motors - Alternative method (Annex G.5.4.5.3)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2826	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Running overload for DC motors - Requirements and Test method and compliance criteria (Annex G.5.4.5)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2827	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Running overload test and compliance criteria (Annex G.5.4.3)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2828	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Safeguards against entry of a foreign object (Annex P.2.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	259 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2829	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Safeguards against fire under normal operating conditions and abnormal operating conditions - Requirements and Compliance criteria (Clause 6.3 (6.3.1 and 6.3.2))	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2830	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Safeguards against fire under single fault conditions - General and Reduction of the likelihood of ignition under single fault conditions in PS1 circuits (Clause 6.4 (6.4.1 and 6.4.2))	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2831	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Safeguards against short-circuits (Annex M.6.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2832	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Safeguards against the consequences of entry of a foreign object - Safeguard requirements (Annex P.2.3.1)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2833	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Safeguards against transient voltages from external circuits - Impulse test (Clause 5.4.10.2.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 260 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2834	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Safeguards against transient voltages from external circuits - Steady state test (Clause 5.4.10.2.3)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2835	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Safeguards against transient voltages from external circuits -Compliance criteria (Clause 5.4.10)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2836	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Separation between external circuits and earth - Test method and compliance criteria (Clause 5.4.10.3)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2837	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Simulated abnormal operating conditions - Audio amplifier abnormal operating conditions (Annex B.3.7)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2838	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Simulated abnormal operating conditions - Covering of ventilation openings (Annex B.3.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2839	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Simulated abnormal operating conditions - DC mains polarity test (Annex B.3.3)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 261 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2840	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Simulated abnormal operating conditions - DC mains polarity test (Annex B.3.6)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2841	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Simulated abnormal operating conditions - Maximum load at output terminals (Annex B.3.5)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2842	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Simulated abnormal operating conditions - Setting of voltage selector (Annex B.3.4)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2843	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Simulated single fault conditions - Blocked motor test (Annex B.4.3.1)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2844	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Simulated single fault conditions - Clearances for functional insulation (Annex B.4.4.1)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 262 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2845	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Simulated single fault conditions - Continuous operation of components (Annex B.4.7)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2846	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Simulated single fault conditions - Creepage distances for functional insulation (Annex B.4.4.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2847	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Simulated single fault conditions - Functional insulation on coated printed boards (Annex B.4.4.3)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2848	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Simulated single fault conditions - Short-circuit and interruption of electrodes in tubes and semiconductors (Annex B.4.5)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1:2019 "
2849	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Simulated single fault conditions - Short-circuit or disconnection of passive components (Annex B.4.6)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	263 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2850	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Simulated single fault conditions - Temperature controlling device (Annex B.4.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2851	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Single pulse limits (Clause 5.2.2.4)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2852	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Static stability (Clause 8.6.2.1)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2853	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Static stability test (Clause 8.6.2.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2854	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Steady force test, 10 N (Annex T.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2855	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Steady force test, 100 N (Annex T.4)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	264 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2856	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Steady force test, 250 N (Annex T.5)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2857	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Steady force test, 30 N (Annex T.3)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2858	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Steady- state voltage and current limits (Clause 5.2.2.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2859	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Stress relief test (Annex T.8)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2860	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Stress relief test (Clause 4.8.4.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2861	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Summation of touch currents from external circuits (Clause 5.7.8)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	265 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2862	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Telescoping or rod antennas (Clause 8.12)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2863	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Terminals for connecting stripped wire (Clause 5.3.2.4)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2864	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Test for external circuits – paired conductor cable (Annex Q.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2865	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Test for telescoping or rod antennas (Annex T.11)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2866	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Test for the permanence of markings - Compliance criteria (Annex F.3.10.4)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2867	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Test for the permanence of markings - Testing procedure (Annex F.3.10.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 266 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2868	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Test method 1 – Surfaces and openings tested with jointed test probes (Annex V.1.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2869	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Test method 2 – Openings tested with straight unjointed test probes (Annex V.1.3)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2870	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Test method 3 – Plugs, jacks, connectors (Annex V.1.4)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2871	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Test method 4 – Slot openings (Annex V.1.5)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2872	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Test method 5 – Terminals intended to be used by an ordinary person	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2873	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Test method and compliance criteria for motors with capacitors (Annex G.5.4.7)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	267 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2874	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Test method and compliance criteria for series motors (Annex G.5.4.9)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2875	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Test method and compliance criteria for three-phase motors (Annex G.5.4.8)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2876	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Test procedure for routine tests	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2877	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Tests for semiconductor components and for cemented joints (Clause 5.4.7)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2878	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Tests on coated printed boards - Test method and compliance criteria (Clause G.13.6)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2879	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Thermal cycling test procedure (Clause 5.4.1.5.3)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2880	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Thermoplastic temperature stability (Clause 8.10.6)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	268 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2881	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Top openings and top opening properties (Clause 6.4.8.2.3)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2882	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Transformer Insulation - Requirements and Compliance criteria (Annex G.5.3.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2883	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Transformer overload tests - Alternative test method (Annex G.5.3.3.3)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2884	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Transformer overload tests - Test conditions and Compliance criteria (Annex G.5.3.3)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2885	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Tray for preventing electrolyte spillage	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2886	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Unearthed accessible parts (Clause 5.7.4)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	269 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2887	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Vicat test (Clause 5.4.1.10.2)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2888	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Voltage setting device (Annex F.3.4)	"IEC 62368-1: 2014 EN 62368-1:2014+A11:2017 CAN/CSA-C22.2 NO. 62368-1-14 UL 62368-1:2014 IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2889	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Voltage surge test (Clause G.10.4)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2890	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Water spray test (Annex Y.5.3)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2891	ELECTRONICS- IT EQUIPMENT	Audio/video, information and communication technology equipment	Wheels or casters attachment requirements (Clause 8.9.2)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2892	ELECTRONICS- IT EQUIPMENT	Color televisions	Power Efficiency Measurement Standby Mode ON Mode & Active Mode	Clause 5 IEC 62301
2893	ELECTRONICS- IT EQUIPMENT	Color televisions	Power Efficiency Measurement Standby Mode ON Mode & Active Mode	Clause 11 IEC 62087
2894	ELECTRONICS- IT EQUIPMENT	Color televisions	Power Efficiency Measurement Standby Mode ON Mode & Active Mode (Clause 11)	IEC 62087
2895	ELECTRONICS- IT EQUIPMENT	Color televisions	Power Efficiency Measurement Standby Mode ON Mode & Active Mode (Clause 5)	IEC 62301

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	270 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2896	ELECTRONICS- IT EQUIPMENT	Equipment having an electromechanical device for destruction of media	Equipment having an electromechanical device for destruction of media (Clause 8.5.4.3.4)	"IEC 62368-1:2018 EN IEC 62368-1:2020+A11:2020 IS/IEC 62368 : Part 1 : 2018 CSA C22.2 NO. 62368-1:19 UL 62368-1
2897	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Glowing/hot-wire based test methods – Glow-wire flammability index (GWFI) test method for materials	Evaluation of test results	IEC 60695-2-12:2010 +A1 (Clause 10)
2898	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 500 W flame test method	Bar test specimens	EN 60695-11-20 (Clause 7.2)
2899	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 500 W flame test method	Bar test specimens	IEC 60695-11-20 (Clause 7.3) (Clause 7.2)
2900	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 500 W flame test method	Classification	IEC 60695-11-20 (Clause 8.4)
2901	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 500 W flame test method	Conditioning of specimens in conditioning chamber(“As Received”)	IEC 60695-11-20 (Clause 8.1.2)
2902	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 500 W flame test method	Flame application and observations	EN 60695-11-20 Clause 8.3.3)
2903	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 500 W flame test method	Flame application and observations	IEC 60695-11-20 (Clause 8.2.3)
2904	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 500 W flame test method	Flame setup - bar test specimens	IEC 60695-11-20
2905	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 500 W flame test method	Flame setup - plate shaped test specimens	EN 60695-11-20 Clause 8.3.2)
2906	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 500 W flame test method	Flame setup - plate shaped test specimens	IEC 60695-11-20 (Clause 8.3.2)
2907	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 500 W flame test method	Flame setup- bar test specimens	EN 60695-11-20 (Clause 8.2.2)
2908	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 500 W flame test method	Plate test specimens	EN 60695-11-20 (Clause 7.3)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5688	**Page No**	271 of 514
Validity	24/04/2022 to 23/04/2024	**Last Amended on**	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2909	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 500 W flame test method	Plate test specimens	IEC 60695-11-20
2910	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 500 W flame test method	Thickness measurements	EN 60695-11-20 (Clause 7.5)
2911	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 500 W flame test method	Thickness measurements	IEC 60695-11-20 (Clause 7.5)
2912	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products (GWEPT)	Evaluation of test results	IEC 60695-2-11 (Clause 10)
2913	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products (GWEPT)	Observations and measurements	EN 60695-2-11 (Clause 9)
2914	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method A -Horizontal Burning test - Calculation	EN 60695-11-10 (Clause 8.3.1)
2915	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method A -Horizontal Burning test - Calculation	IEC 60695-11-10 (Clause 8.3.1)
2916	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method A -Horizontal Burning test - Classification	EN 60695-11-10 (Clause 8.4.1)
2917	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method A -Horizontal Burning test - Classification	IEC 60695-11-10 (Clause 8.4.1)
2918	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method A -Horizontal Burning test - Conditioning	EN 60695-11-10 (Clause 8.1.1)
2919	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method A -Horizontal Burning test - Conditioning	IEC 60695-11-10 (Clause 8.1.1)

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 272 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2920	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method A -Horizontal Burning test - Procedure	EN 60695-11-10 (Clause 8.2)
2921	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method A -Horizontal Burning test - Procedure	IEC 60695-11-10 (Clause 8.2)
2922	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method A -Horizontal Burning test - Specimen	EN 60695-11-10 (Clause 7.2)
2923	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method A -Horizontal Burning test - Specimen	IEC 60695-11-10 (Clause 7.2)
2924	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method B - Vertical Burning test - Calculation	EN 60695-11-10 (Clause 9.3)
2925	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method B - Vertical Burning test - Calculation	IEC 60695-11-10
2926	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method B - Vertical Burning test - Classification	EN 60695-11-10 (Clause 9.4)
2927	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method B - Vertical Burning test - Classification	IEC 60695-11-10
2928	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method B - Vertical Burning test - Conditioning	EC 60695-11-10 : (Clause 9.1)
2929	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method B - Vertical Burning test - Conditioning	EN 60695-11-10
2930	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method B - Vertical Burning test - Procedure	EC 60695-11-10 : (Clause 9.2)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	273 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2931	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - 50 W horizontal and vertical flame test methods	Test Method B - Vertical Burning test - Procedure	EN 60695-11-10 (Clause 9.2)
2932	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	Conditioning	EN 60695-11-5 (Clause 8.1)
2933	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	Conditioning	IEC 60695-11-5 (Clause 8.1)
2934	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	Evaluation of test results	IEC 60695-11-5 (Clause 11)
2935	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	Flame application times	EN 60695-11-5 (Clause 7)
2936	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	Flame application times	IEC 60695-11-5 (Clause 7)
2937	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	Observations and measurements	IEC 60695-11-5
2938	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) - Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	Test procedure	(Clause 8) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2: 2014
2939	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) -Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products (GWEPT)	Evaluation of test results	EN 60695-2-11 (Clause 10)
2940	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) – Glowing/hot-wire based test methods – Glow-wire flammability index (GWFI) test method for materials	Observations and measurements	IEC 60695-2-12:2010 +A1 (Clause 9)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5688	**Page No**	274 of 514
Validity	24/04/2022 to 23/04/2024	**Last Amended on**	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2941	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) – Glowing/hot-wire based test methods – Glow-wire flammability index (GWFI) test method for materials	Evaluation of test results	EN 60695-2-12 (Clause 10)
2942	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) – Glowing/hot-wire based test methods – Glow-wire flammability index (GWFI) test method for materials	Observations and measurements	EN 60695-2-12 (Clause 9)
2943	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) – Glowing/hot-wire based test methods – Glow-wire ignition temperature (GWIT) test method for materials	Evaluation of test results	EN 60695-2-13 (Clause 10)
2944	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) – Glowing/hot-wire based test methods – Glow-wire ignition temperature (GWIT) test method for materials	Evaluation of test results	IEC 60695-2-13:2010+A1 (Clause 10)
2945	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) – Glowing/hot-wire based test methods – Glow-wire ignition temperature (GWIT) test method for materials	Observations and measurements	EN 60695-2-13 (Clause 9)
2946	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3) – Glowing/hot-wire based test methods – Glow-wire ignition temperature (GWIT) test method for materials	Observations and measurements	IEC 60695-2-13:2010+A1 (Clause 9)
2947	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3)- Test flames - 500 W flame test method	Flame application and observations	EN 60695-11-20 (Clause 8.2.3)
2948	ELECTRONICS- IT EQUIPMENT	Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3)- Test flames - 500 W flame test method	Flame application and observations	IEC 60695-11-20 (Clause 8.3.3)
2949	ELECTRONICS- IT EQUIPMENT	Flammability Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3). Test flames 50 W flame Apparatus and confirmational test method	Confirmation of the test flame Principle	EC 60695-11-4 (Clause 4.4.1)
2950	ELECTRONICS- IT EQUIPMENT	Flammability Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3). Test flames 50 W flame Apparatus and confirmational test method	Confirmation of the test flame Principle	EN 60695-11-4 (Clause 4.4.1)
2951	ELECTRONICS- IT EQUIPMENT	Flammability Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3). Test flames 50 W flame Apparatus and confirmational test method	Procedure	EN 60695-11-4 (Clause 4.4.2)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5688	**Page No**	275 of 514
Validity	24/04/2022 to 23/04/2024	**Last Amended on**	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2952	ELECTRONICS- IT EQUIPMENT	Flammability Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3). Test flames 50 W flame Apparatus and confirmational test method	Procedure	IEC 60695-11-4 (Clause 4.4.2)
2953	ELECTRONICS- IT EQUIPMENT	Flammability Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3). Test flames 50 W flame Apparatus and confirmational test method	Verification	EN 60695-11-4 (Clause 4.4.3)
2954	ELECTRONICS- IT EQUIPMENT	Flammability Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3). Test flames 50 W flame Apparatus and confirmational test method	Verification	IEC60695-11-4 (Clause 4.4.3)
2955	ELECTRONICS- IT EQUIPMENT	Flammability Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3). Test flames 500 W flames . Apparatus and confirmational test methods	Confirmation of the test flame Principle	EN 60695-11-3 (Clause 4.4.1)
2956	ELECTRONICS- IT EQUIPMENT	Flammability Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3). Test flames 500 W flames . Apparatus and confirmational test methods	Confirmation of the test flame Principle	IEC 60695-11-3 (Clause 4.4.1)
2957	ELECTRONICS- IT EQUIPMENT	Flammability Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3). Test flames 500 W flames . Apparatus and confirmational test methods	Procedure	EN 60695-11-3 (Clause 4.4.2)
2958	ELECTRONICS- IT EQUIPMENT	Flammability Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3). Test flames 500 W flames . Apparatus and confirmational test methods	Procedure	IEC 60695-11-3 (Clause 4.4.2)
2959	ELECTRONICS- IT EQUIPMENT	Flammability Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3). Test flames 500 W flames . Apparatus and confirmational test methods	Verification	EN 60695-11-3 (Clause 4.4.3)
2960	ELECTRONICS- IT EQUIPMENT	Flammability Fire hazard testing (Solid and Cellular material of the product that has an apparent density of more than 250 kg/m3). Test flames 500 W flames . Apparatus and confirmational test methods	Verification	IEC 60695-11-3 (Clause 4.4.3)
2961	ELECTRONICS- IT EQUIPMENT	Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure	Test procedure	EN 60695-2-10 (Clause 8)
2962	ELECTRONICS- IT EQUIPMENT	Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure	Test procedure	IEC 60695-2-10 (Clause 8)
2963	ELECTRONICS- IT EQUIPMENT	Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products (GWEPT)	Observations and measurements	IEC 60695-2-11 (Clause 9)

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 276 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2964	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Test Method A – Horizontal Burning test - Specimen	IS 60695-11-10 (Clause 7.2)
2965	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Test Method B – Vertical Burning test - Classification	IS 60695-11-10 (Clause 9.4)
2966	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Test Method B – Vertical Burning test - Conditioning	IS 60695-11-10 (Clause 9.1)
2967	ELECTRONICS- IT EQUIPMENT	Information technology Equipment	Impact test	IS 13252 : Part 22 Cl.10.2
2968	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Limited current circuits in outdoor locations	IEC 60950-22 Cl.6.2
2969	ELECTRONICS- IT EQUIPMENT	Information technology Equipment	Limited current circuits in outdoor locations	IS 13252 : Part 22 Cl.6.2
2970	ELECTRONICS- IT EQUIPMENT	Information technology equipment	Markings & Instructions (Marking)	(Clause 1.7) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2971	ELECTRONICS- IT EQUIPMENT	Information technology equipment	Power input and current	(Clause. 1.6) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2972	ELECTRONICS- IT EQUIPMENT	Information technology equipment	Protection from electric shock & energy hazards (Protection against access to live parts)	(Clause. 2.1) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2973	ELECTRONICS- IT EQUIPMENT	Information technology Equipment	Protection from excessive dust - IP5X equipment	IS 13252 : Part 22 Cl.9.3.2
2974	ELECTRONICS- IT EQUIPMENT	Information technology Equipment	Protection from excessive dust - IP6X equipment	IS 13252 : Part 22 Cl.9.3.3
2975	ELECTRONICS- IT EQUIPMENT	Information technology Equipment	Protection from moisture	IS 13252 : Part 22 Cl.9.1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 277 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2976	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Resistance to corrosion	IEC 60950-22 Cl.8.3 (8.3.1, 8.3.2, 8.3.3, 8.3.4)
2977	ELECTRONICS- IT EQUIPMENT	Information technology Equipment	Resistance to corrosion	IS 13252 : Part 22 Cl.8.3 (8.3.1, 8.3.2, 8.3.3, 8.3.4)
2978	ELECTRONICS- IT EQUIPMENT	Information technology equipment	Touch Current & protective conductor current (Leakage current)	(Clause. 5.1) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2979	ELECTRONICS- IT EQUIPMENT	Information Technology Equipment	Voltage limits of user-accessible parts in outdoor locations	IEC 60950-22 Cl.6.1
2980	ELECTRONICS- IT EQUIPMENT	Information technology Equipment	Voltage limits of user-accessible parts in outdoor locations	IS 13252 : Part 22 Cl.6.1
2981	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Abnormal operating and fault conditions / Transformers / Motor tests under abnormal conditions	(Clause. 5.3 / Clause. Annex C/ Clause. Annex B.) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2982	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Adhesives for constructional purposes	(Clause. 4.6.5) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2983	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Clearances,Creepage distances and distances through insulation	IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	278 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2984	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Compliance Criteria (Insulation Resistance)	(Clause. 6.2.2.3) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd.
2985	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Cord anchorage and strain relief (Mechanical Strength)	(Clause. 3.2.6) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2986	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Direct plug-in equipment	(Clause. 4.3.6) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2987	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Discharge of Capacitors in Equipment (Capacitor discharge)	(Clause. 2.1.1.7) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2988	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Drop test	(Clause.4.2.6) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	279 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2989	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Electric strength (High Voltage test)	(Clause. 5.2) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2990	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Impact test (Ball Impact test)	(Clause. 4.2.5) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2991	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Impulse Test	IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2992	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Limited power sources	(Clause. 2.5) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2993	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Limits/Connection of TNV Circuits to other circuits (Limits of TNV circuits)	(Clause. 2.3.1/2.3.4) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2994	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Protection in operator access area (Protection against moving parts)	(Clause. 4.4.2) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 280 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
2995	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Protection in Restricted Access Area (Protection against hazardous moving parts)	(Clause. 4.4.3) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2996	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Protection in Restricted Access Area (Protection against hazardous moving parts)	(Clause. 4.4.3) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2: 2014
2997	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Resistance of Earthing Conductors and there terminations (Earth Bond Test)	(Clause. 2.6.3.4) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2998	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	RMS Working Voltage / Peak Working Voltage (Working Voltage)	(Clause. 2.10.2.2/2.10.2.3) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
2999	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Stability	(Clause. 4.1) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3000	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Steady force test, 10NSteady force test, 10N, 250 N & 30 N (Clause. 4.2.2, 4.2.4 & 4.2.3)	IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	281 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3001	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	steady force test, 30N (Clause. 4.2.3)	CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3002	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	steady force test, 30N (Clause. 4.2.3)	EN 60950-1: 2006+ Amd. 11: 2009 +Amd. 1: 2010+ Amd. 12: 2011 Amd. 2
3003	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	steady force test, 30N (Clause. 4.2.3)	IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2
3004	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	steady force test, 30N (Clause. 4.2.3)	UL 60950-1
3005	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Stress relief test	(Cl. 4.2.7) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3006	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Test for operating voltages generated externally	(Clause. 2.3.5) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3007	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Test for operating voltages generated externally (Clause. 2.3.5)	CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3008	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Test for operating voltages generated externally (Clause. 2.3.5)	EN 60950-1: 2006+ Amd. 11: 2009 +Amd. 1: 2010+ Amd. 12: 2011 Amd. 2
3009	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Test for operating voltages generated externally (Clause. 2.3.5)	IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2
3010	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Test for operating voltages generated externally (Clause. 2.3.5)	UL 60950-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	282 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3011	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Tests for resistance to heat and fire	(Annex A) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2: 2014: 2014
3012	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Voltage surge test	(Cl. 7.4.2) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3013	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Voltage under fault conditions/Connection of SELV circuits to other circuits	(Cl. 2.2.3/2.2.4) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3014	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Voltage under normal conditions	(Clause. 2.2.2) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3015	ELECTRONICS- IT EQUIPMENT	Information technology equipment (All Computer Peripherals/Mobiles/Laptops/ Printers/Servers/Network devices and Etc.)	Wall or ceiling mounted equipment	(Clause. 4.2.10) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5688	**Page No**	283 of 514
Validity	24/04/2022 to 23/04/2024	**Last Amended on**	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3016	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Handles and Manual controls	(Clause. 4.3.2) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3017	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Abrasion resistance test	(Clause. 2.10.8.4) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3018	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Batteries	(Clause. 4.3.8) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3019	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Beads and ceramic insulators	(Cl. 3.1.5) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3020	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Criteria for telephone ringing signals	(Annex M) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2:

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5688	**Page No**	284 of 514
Validity	24/04/2022 to 23/04/2024	**Last Amended on**	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3021	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Guidence on Protection against Ingress of Water	(Annex T) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3022	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Household and home/office document/media shredders	(Clause. Annex EE) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3023	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Material group and comparative tracking index	(Clause. 2.10.4.2) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3024	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Mounting means for Rack mounting equipments	(Annex DD) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3025	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Moving parts	(Clause. 2.8.5) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	285 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3026	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Non-separable Thin sheet material / Mandrel test	(Clause. 2.10.5.8 / Annex AA) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2: 2014
3027	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Openings in transportable equipment	(Clause. 4.6.4) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3028	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Protection of the telecommunication wiring system from overheating	(Clause. 6.3) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3029	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Protection of the telecommunication wiring system from overheating (Clause. 6.3)	EN 60950-1: 2006+ Amd. 11: 2009 +Amd. 1: 2010+ Amd. 12: 2011 Amd. 2:
3030	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Separation of TNV circuits from other circuits and from accessible parts	(Clause. 2.3.2) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3031	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Size of protective bonding conductors	(Clause. 2.6.3.3) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 286 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3032	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Size of protective bonding conductors (Clause. 2.6.3.3)	CAN/CSA-C22.2 NO. 60950-1-07 (R2016)
3033	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Size of protective bonding conductors (Clause. 2.6.3.3)	CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2:
3034	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Switches, relays and their related circuits	(Clause. 2.8.7) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3035	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Telecommunication network	(Cl. 6.1.2/6.2/ 6.2.1/ 6.2.2) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2:
3036	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Thermal cycling	(Clause. 2.10.9) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3037	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Top and side openings/ Bottom of fire enclosure	(Cl. 4.6.1/ 4.6.2) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	287 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3038	ELECTRONICS- IT EQUIPMENT	Information Technology Equipments like Printers,Laptos,Mobiles,Tablets,VDU.Monitors,Scanners,key boards,ADP,set-top box,Adaptors,mobile phones,VDu,CCTV Cameras,USB,Smart Watches Etc..	Transient voltages	(Cl 2.10.3.2) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3039	ELECTRONICS- IT EQUIPMENT	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	Comparative tracking and proof tracking test	EN 60112
3040	ELECTRONICS- IT EQUIPMENT	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	Comparative tracking and proof tracking test	IEC 60112:2003+A1 (Clause 5 to 11)
3041	ELECTRONICS- IT EQUIPMENT	Mobile Phones	Inputting of Text (Clause.5/5.1)	IS 16333(Part 3):
3042	ELECTRONICS- IT EQUIPMENT	Mobile Phones	Marking (Clause.6/6.1/6.2/6.2.1)	IS 16333(Part 3):
3043	ELECTRONICS- IT EQUIPMENT	Mobile Phones	Message readability (Clause.5/5.2)	IS 16333(Part 3):
3044	ELECTRONICS- IT EQUIPMENT	Office Equipments (Printers, Scanners, Copiers, Fax Machines and Multi Function Devices)	Power Efficiency Measurement Standby Mode / ON Mode / Active Mode (Clause 5)	IEC 62301
3045	ELECTRONICS- IT EQUIPMENT	Safety requirements for radio transmitting Equipment	Additional provisions	IEC 60215, (Cl. 7.3.4)
3046	ELECTRONICS- IT EQUIPMENT	Safety requirements for radio transmitting Equipment	Components	IEC 60215 (Cl.6.2)
3047	ELECTRONICS- IT EQUIPMENT	Safety requirements for radio transmitting Equipment	Dangerous short-circuiting of low voltage supplies	IEC 60215, (Cl. 8.7)
3048	ELECTRONICS- IT EQUIPMENT	Safety requirements for radio transmitting Equipment	Fault Test	IEC 60215 (Cl.5.3)
3049	ELECTRONICS- IT EQUIPMENT	Safety requirements for radio transmitting Equipment	General requirements concerning lasers	IEC 60215, (Cl. 8.5.4)
3050	ELECTRONICS- IT EQUIPMENT	Safety requirements for radio transmitting Equipment	Markings Relevant To Safety	IEC 60215, (Cl. 6.4)
3051	ELECTRONICS- IT EQUIPMENT	Safety requirements for radio transmitting Equipment	Permissible temperature rise under conditions of normal use	IEC 60215, (Cl. 8.2.1)
3052	ELECTRONICS- IT EQUIPMENT	Safety requirements for radio transmitting Equipment	Protection against harmful electric shock, and radio-frequency skin burns	IEC 60215, (Cl. 7.1)

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 288 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3053	ELECTRONICS- IT EQUIPMENT	Safety requirements for radio transmitting Equipment	Protection Against Harmful Electrical Shock -Mechanical Considerations	IEC 60215, (Cl. 7.4)
3054	ELECTRONICS- IT EQUIPMENT	Safety requirements for radio transmitting Equipment	Protection Against Harmful Electrical Shock -Wiring and termination	IEC 60215, (Cl. 7.5)
3055	ELECTRONICS- IT EQUIPMENT	Safety requirements for radio transmitting Equipment	Resistance to humidity	IEC 60215 (Cl.6.3.2)
3056	ELECTRONICS- IT EQUIPMENT	Safety requirements for radio transmitting Equipment	Safety devices relating to enclosures	IEC 60215, (Cl. 7.3.2)
3057	ELECTRONICS- IT EQUIPMENT	Safety requirements for radio transmitting Equipment	Temperature rise under fault conditions	IEC 60215, (Cl. 8.2.2)
3058	ELECTRONICS- IT EQUIPMENT	Safety requirements for radio transmitting Equipment	Voltages remaining on the equipment	IEC 60215, (Cl. 7.3.3)
3059	ELECTRONICS- IT EQUIPMENT	Thermal Requirements (Temperature Rise)	Thermal Requirements (Temperature Rise)	(Clause.4.5) IEC 60950-1: 2005+Amd. 1: 2009 +Amd. 2: 2013 IS 13252 (Part 1): 2010 Amd. 1: 2013 + Amd 2: 2015 UL 60950-1: 2007 R10.14 : 2014 CAN/CSA-C22.2 No.60950-1-07 Amd. 1: 2011 Amd. 2
3060	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT		Accessible parts including and Applied parts	Cl. 8.4.2 IEC 60601-2-16
3061	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Alarm systems in medical electrical equipment and medical electrical systems	Visual Alarm Signal Test	"IEC 60601-1-8 : 2006 + AMD1: 2012 EN 60601-1-8 : 2007 + A11
3062	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3063	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3064	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3065	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3066	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	289 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3067	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3068	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3069	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3070	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3071	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3072	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3073	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3074	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3075	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3076	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3077	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3078	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3079	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3080	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	290 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3081	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3082	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Mechanical Strength	Cl 15.3 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3083	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3084	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3085	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3086	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Power input	Cl. 4.11 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3087	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3088	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Single fault condition	Cl 13.2 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3089	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3090	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3091	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3092	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Trapping Zone	Cl 9.2.2 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3093	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"
3094	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ambulatory electrocardiographic systems	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-47: 2012 EN 60601-2-47: 2015 IS 13450 : Part 2 : Sec 47 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 291 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3095	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Accessible parts including and Applied parts	Cl. 8.4.2 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3096	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3097	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3098	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012
3099	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Cord Anchorage	Cl 8.11.3.5 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3100	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Cord Guard	Cl 8.11.3.6 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3101	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Creepage Distances and Air Clearances	Cl 8.9 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3102	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Defibrillation Protection	Cl. 8.5.5.1 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3103	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Determination of accessible parts	Cl 5.9.2 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3104	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Dielectric strength	Cl. 8.8.3 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3105	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Energy Reduction Test	Cl 8.5.5.2 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3106	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Excessive temperatures in ME equipment	Cl. 11.1 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 292 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3107	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Humidity preconditioning treatment	Cl. 5.7 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3108	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Impedance and current-carrying capability	Cl 8.6.4 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3109	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3110	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Instability – Overbalance	Cl 9.4.2 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3111	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3112	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Interruption of Power Supply	Cl 11.8 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3113	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3114	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Measurement of Thickness of solid insulation	Cl 8.8.2 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3115	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3116	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Mechanical Strength	Cl 15.3 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3117	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Mechanical strength and resistance to heat	Cl 8.8.4.1 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3118	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Medical equipment Identification, Marking and Documents	Cl 7 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 293 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3119	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Overflow in Medical equipment	Cl 11.6.2 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3120	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Power input	Cl. 4.11 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3121	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Residual voltage in attachment plug	Cl 8.4.3 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3122	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Single fault condition	Cl 13.2 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3123	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3124	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3125	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Systems with Mechanical protective Devices	Cl 9.8.4 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3126	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Trapping Zone	Cl 9.2.2 "ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3127	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Anesthetic systems	Working voltage measurement	Cl 8.5.4"ISO 80601-2-13:2011 +AMD1 : 2015 EN ISO 80601-2-13: 2012"
3128	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Accessible parts including and Applied parts	Cl. 8.4.2 IS 13450 : Part 2 : Sec 32
3129	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 IS 13450 : Part 2 : Sec 32
3130	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 IS 13450 : Part 2 : Sec 32
3131	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 IS 13450 : Part 2 : Sec 32
3132	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Cord Anchorage	Cl 8.11.3.5 IS 13450 : Part 2 : Sec 32

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 294 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3133	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Cord Guard	Cl 8.11.3.6 IS 13450 : Part 2 : Sec 32
3134	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Creepage Distances and Air Clearances	Cl 8.9 IS 13450 : Part 2 : Sec 32
3135	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Defibrillation Protection	Cl. 8.5.5.1 IS 13450 : Part 2 : Sec 32
3136	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Determination of accessible parts	Cl 5.9.2 IS 13450 : Part 2 : Sec 32
3137	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Dielectric strength	Cl. 8.8.3 IS 13450 : Part 2 : Sec 32
3138	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Energy Reduction Test	Cl 8.5.5.2 IS 13450 : Part 2 : Sec 32
3139	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Excessive temperatures in ME equipment	Cl. 11.1 IS 13450 : Part 2 : Sec 32
3140	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Humidity preconditioning treatment	Cl. 5.7 IS 13450 : Part 2 : Sec 32
3141	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Impedance and current-carrying capability	Cl 8.6.4 IS 13450 : Part 2 : Sec 32
3142	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 IS 13450 : Part 2 : Sec 32
3143	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Instability – Overbalance	Cl 9.4.2 IS 13450 : Part 2 : Sec 32
3144	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 IS 13450 : Part 2 : Sec 32
3145	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Interruption of Power Supply	Cl 11.8 IS 13450 : Part 2 : Sec 32
3146	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 IS 13450 : Part 2 : Sec 32
3147	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Measurement of Thickness of solid insulation	Cl 8.8.2 IS 13450 : Part 2 : Sec 32
3148	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 IS 13450 : Part 2 : Sec 32
3149	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Mechanical Strength	Cl 15.3 IS 13450 : Part 2 : Sec 32
3150	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 IS 13450 : Part 2 : Sec 32

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 295 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3151	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Medical equipment Identification, Marking and Documents	Cl 7 IS 13450 : Part 2 : Sec 32
3152	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Overflow in Medical equipment	Cl 11.6.2 IS 13450 : Part 2 : Sec 32
3153	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Power input	Cl. 4.11 IS 13450 : Part 2 : Sec 32
3154	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Residual voltage in attachment plug	Cl 8.4.3 IS 13450 : Part 2 : Sec 32
3155	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Single fault condition	Cl 13.2 IS 13450 : Part 2 : Sec 32
3156	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 IS 13450 : Part 2 : Sec 32
3157	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 IS 13450 : Part 2 : Sec 32
3158	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Systems with Mechanical protective Devices	Cl 9.8.4 IS 13450 : Part 2 : Sec 32
3159	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Trapping Zone	Cl 9.2.2 IS 13450 : Part 2 : Sec 32
3160	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Associated equipment of X-ray Equipment	Working voltage measurement	Cl 8.5.4 IS 13450 : Part 2 : Sec 32
3161	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Abnormal operation and fault conditions	Cl 52 IS 13450 Part 2 Sec 30: 2008
3162	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Accessible parts including and Applied parts	Cl. 8.4.2 IIEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3163	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	ACCURACY OF OPERATING DATA	Cl 50 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3164	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Actuating Parts of control	Cl 56.10 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3165	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3166	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Alarm systems	Cl. 201.12.3.101 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 296 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3167	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Alarms	Cl 101 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3168	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Batteries	Cl 56.7 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3169	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6. IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3170	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Connectors of Power Supply Cords	Cl 57.4 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3171	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Construction and Layout	Cl 59 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3172	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3173	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Continuous Leakage currents and Patient Auxiliary current	Cl 19 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3174	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Cord Anchorage	Cl 8.11.3.5 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3175	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Cord Guard	Cl 8.11.3.6 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3176	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Creepage and Clearances	Cl 57.10 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3177	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Creepage Distances and Air Clearances	Cl 8.9 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3178	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Cuff Pressure	Cl 22.4 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3179	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Defibrillation Protection	Cl. 8.5.5.1 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3180	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Determination of accessible parts	Cl 5.9.2 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 297 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3181	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Dielectric strength	Cl. 8.8.3 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3182	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Dielectric Strength Test	Cl 20.4 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3183	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Energy Reduction Test	Cl 8.5.5.2 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3184	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Excessive Temperatures	Cl 42 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3185	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Excessive temperatures in ME equipment	Cl. 11.1 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3186	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Humidity	Cl 44.5 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3187	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Humidity preconditioning treatment	Cl. 5.7 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3188	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Identification, marking and documents	Cl 6 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3189	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Impedance and current-carrying capability	Cl 8.6.4 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3190	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Ingress of Liquids	Cl 44.6 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3191	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3192	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Instability – Overbalance	Cl 9.4.2 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3193	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 298 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3194	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Internal electrical power source	Cl. 201.11.8.103 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3195	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Internal of the Power Supply	Cl 49 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3196	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Interruption of Power Supply	Cl 11.8 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3197	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3198	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Leakage	Cl 44.4 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3199	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Limits of the change in error of the blood pressure determination	Cl. 201.12.1.107 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3200	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Limits of the error of the manometer from environmental conditions	Cl. 201.12.1.102 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3201	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Long-Term Automatic Mode	Cl. 201.105.1 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3202	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Mains Supply Transformers	Cl 57.9 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3203	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Manometer test mode	Cl. 201.12.1.106 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3204	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Maximum inflating time	Cl. 201.104 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3205	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Maximum pressure in normal condition	Cl. 201.12.1.104IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 299 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3206	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Maximum pressure in single fault condition	Cl. 201.12.1.105 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3207	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Measurement of Thickness of solid insulation	Cl 8.8.2 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3208	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Measuring and display ranges	Cl. 201.12.1.101 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3209	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Mechanical Hazards associated with Moving parts	Cl 9.2.3 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3210	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Mechanical Strength	Cl 15.3 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3211	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Mechanical strength and resistance to heat	Cl 8.8.4.1 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3212	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Mechanical Strength Test	Cl 21 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3213	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Medical equipment Identification, Marking and Documents	Cl 7 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3214	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Nominal blood pressure indication range	Cl. 201.12.1.103 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3215	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Overflow	Cl 44.2 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3216	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Overflow in Medical equipment	Cl 11.6.2 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3217	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Power input	Cl 7 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3218	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Power input	Cl. 4.11 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 300 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3219	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Pressurization	Cl. 201.101.2 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3220	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	PROTECTION AGAINST HAZARDOUS OUTPUT	Cl 50 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3221	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Protective Earthing , functional earthing and potential equalization	Cl 18 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3222	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Residual voltage in attachment plug	Cl 8.4.3 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3223	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Self-Measurement Automatic Mode	Cl. 201.105.3 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3224	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Separation	Cl 17 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3225	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Short-Term Automatic Mode	Cl. 201.105.2 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3226	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Single fault condition	Cl 13.2 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3227	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Spillage	Cl 44.3 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3228	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Spillage on Medical Equipment and Medical System	Cl 11.6.3 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3229	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Stability	Cl 24 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3230	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3231	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	SUPPLY MAINS	Cl. 201.11.8.102 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 301 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3232	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Switching OFF	Cl. 201.11.8.101 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3233	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Systems with Mechanical protective Devices	Cl 9.8.4 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3234	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Trapping Zone	Cl 9.2.2 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3235	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Working voltage measurement	Cl 8.5.4 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3236	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Automated non-invasive sphygmomano meters	Working voltage measurement	Cl 8.5.4 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008
3237	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Abnormal operation and fault conditions	Cl 52 IS 13812 Part 19 : 1994
3238	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	ACCURACY OF OPERATING DATA	Cl 50 IS 13812 Part 19 : 1994
3239	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Actuating Parts of control	Cl 56.10 IS 13812 Part 19 : 1994
3240	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Batteries	Cl 56.7 IS 13812 Part 19 : 1994
3241	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Connectors of Power Supply Cords	Cl 57.4 IS 13812 Part 19 : 1994
3242	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Construction and Layout	Cl 59 IS 13812 Part 19 : 1994
3243	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Continuous Leakage currents and Patient Auxiliary current	Cl 19 IS 13812 Part 19 : 1994
3244	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Creepage and Clearances	Cl 57.10 IS 13812 Part 19 : 1994
3245	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Dielectric Strength Test	Cl 20.4 IS 13812 Part 19 : 1994
3246	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Excessive Temperatures	Cl 42 IS 13812 Part 19 : 1994
3247	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Fire Prevention	Cl 43 IS 13812 Part 19 : 1994
3248	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Humidity	Cl 44.5 IS 13812 Part 19 : 1994

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 302 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3249	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Identification, marking and documents	Cl 6 IS 13812 Part 19 : 1994
3250	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Ingress of Liquids	Cl 44.6 IS 13812 Part 19 : 1994
3251	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Internal of the Power Supply	Cl 49 IS 13812 Part 19 : 1994
3252	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Leakage	Cl 44.4 IS 13812 Part 19 : 1994
3253	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	LIMITATION OF VOLTAGE AND/OR ENERGY	Cl 15 IS 13812 Part 19 : 1994
3254	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Mains Supply Transformers	Cl 57.9 IS 13812 Part 19 : 1994
3255	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Mechanical Strength Test	Cl 21 IS 13812 Part 19 : 1994
3256	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Overflow	Cl 44.2 IS 13812 Part 19 : 1994
3257	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Power input	Cl 7 IS 13812 Part 19 : 1994
3258	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Protective Earthing , functional earthing and potential equalization	Cl 18 IS 13812 Part 19 : 1994
3259	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Separation	Cl 17 IS 13812 Part 19 : 1994
3260	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Spillage	Cl 44.3 IS 13812 Part 19 : 1994
3261	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Baby incubators	Stability and transportability	Cl 24 IS 13812 Part 19 : 1994
3262	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3263	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3264	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3265	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 303 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3266	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Cord Anchorage	Cl 8.11.3.5 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3267	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Cord Guard	Cl 8.11.3.6 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3268	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Creepage Distances and Air Clearances	Cl 8.9 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3269	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Defibrillation Protection	Cl. 8.5.5.1 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3270	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Determination of accessible parts	Cl 5.9.2 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3271	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Dielectric strength	Cl. 8.8.3 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3272	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Energy Reduction Test	Cl 8.5.5.2 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3273	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3274	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Humidity preconditioning treatment	Cl. 5.7 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3275	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Impedance and current-carrying capability	Cl 8.6.4 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3276	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"2
3277	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Instability – Overbalance	Cl 9.4.2 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3278	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 304 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3279	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Interruption of Power Supply	Cl 11.8 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3280	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3281	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3282	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3283	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Mechanical Strength	Cl 15.3 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3284	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3285	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3286	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Overflow in Medical equipment	Cl 11.6.2 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3287	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Power input	Cl. 4.11 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3288	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Residual voltage in attachment plug	Cl 8.4.3"IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3289	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Single fault condition	Cl 13.2 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3290	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3291	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3292	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	305 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3293	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Trapping Zone	Cl 9.2.2 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3294	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Blankets, pads and mattresses, intended for Heating	Working voltage measurement	Cl 8.5.4 "IEC 80601-2-35: 2009 + AMD1: 2016 EN 80601-2-35 :2009 + A1: 2016"
3295	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3296	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Accessible parts including and Applied parts	Cl. 8.4.2 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3297	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3298	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Batteries	Cl 201.15.4.3 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3299	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Charging time	Cl 201.101 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3300	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3301	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3302	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Cord Anchorage	Cl 8.11.3.5 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3303	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Cord Guard	Cl 8.11.3.6 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3304	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Creepage Distances and Air Clearances	Cl 8.9 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3305	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Defibrillation Protection	Cl. 8.5.5.1 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3306	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	DEFIBRILLATION-PROOF APPLIED PARTS	Cl 201.8.5.5 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 306 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3307	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	DEFIBRILLATOR ELECTRODES, high-voltage circuits and cables	Cl 201.8.9.1.101 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3308	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Determination of accessible parts	Cl 5.9.2 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3309	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Dielectric strength	Cl 201.8.8.3 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3310	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Dielectric strength	Cl. 8.8.3 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3311	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Disturbance to the MONITOR from charging or internal discharging	Cl 201.106 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3312	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Endurance	Cl 201.103 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3313	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Energy Reduction Test	Cl 8.5.5.2 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3314	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Excessive temperatures in ME equipment	Cl. 11.1 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3315	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Humidity preconditioning treatment	Cl. 5.7 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3316	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Impedance and current-carrying capability	Cl 8.6.4 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3317	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3318	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Instability – Overbalance	Cl 9.4.2 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3319	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3320	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	INTERNAL ELECTRICAL POWER SOURCE	Cl 201.102 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	307 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3321	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Interruption of Power Supply	Cl 11.8 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3322	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	LEAKAGE CURRENTS and PATIENT AUXILIARY CURRENTS	Cl 201.8.7 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3323	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac defibrillators	Leakage currents and Patient auxiliary currents	Cl 8.7.4.5 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3324	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Measurement of Thickness of solid insulation	Cl 8.8.2 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3325	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3326	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3327	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Mechanical Strength	Cl 15.3 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3328	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Medical Equipment identification, marking and documents	Cl 201.7 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3329	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac defibrillators	Medical equipment Identification, Marking and Documents	Cl 7 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3330	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Overflow in Medical equipment	Cl 11.6.2 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3331	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Power input	Cl. 4.11 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3332	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Recovery of the MONITOR and/or ECG input after defibrillation	Cl 201.105 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3333	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Residual voltage in attachment plug	Cl 8.4.3 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3334	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Single fault condition	Cl 13.2 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 308 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3335	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3336	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Systems with Mechanical protective Devices	Cl 9.8.4 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3337	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Trapping Zone	Cl 9.2.2 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3338	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Working voltage measurement	Cl 8.5.4 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3339	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Cardiac Defibrillators	Excessive Temperature Measurements	Cl 201.11.1.3 "IS 13450 Part 2 Sec 4: 2018 EN 60601-2-4 : 2011 IEC 60601-2-4
3340	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"
3341	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Accessible parts including and Applied parts	Cl. 8.4.2 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"
3342	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"
3343	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"
3344	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Cord Anchorage	Cl 8.11.3.5 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"
3345	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Cord Guard	Cl 8.11.3.6 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"
3346	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Creepage Distances and Air Clearances	Cl 8.9 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"
3347	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Defibrillation Protection	Cl. 8.5.5.1 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"
3348	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Determination of accessible parts	Cl 5.9.2 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 309 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3349	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Dielectric strength	Cl. 8.8.3 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"
3350	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Energy Reduction Test	Cl 8.5.5.2 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"
3351	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Excessive temperatures in ME equipment	Cl. 11.1 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"
3352	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Humidity preconditioning treatment	Cl. 5.7 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"
3353	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Impedance and current-carrying capability	Cl 8.6.4 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"
3354	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"
3355	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Clinical thermometers	Instability – Overbalance	Cl 9.4.2 "ISO 80601-2-56 : 2017 EN ISO 80601-2-56 : 2017"
3356	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 80601-2-60 : 2012 EN 80601-2-60
3357	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 80601-2-60 : 2012 EN 80601-2-60
3358	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 80601-2-60 : 2012 EN 80601-2-60
3359	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 80601-2-60: 2012 EN 80601-2-60
3360	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Cord Anchorage	Cl 8.11.3.5 "IEC 80601-2-60 : 2012 EN 80601-2-60
3361	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Cord Guard	Cl 8.11.3.6 "IEC 80601-2-60 : 2012 EN 80601-2-60
3362	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Creepage Distances and Air Clearances	Cl 8.9 "IEC 80601-2-60 : 2012 EN 80601-2-60
3363	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Defibrillation Protection	Cl. 8.5.5.1 "IEC 80601-2-60 : 2012 EN 80601-2-60

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 310 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3364	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Determination of accessible parts	Cl 5.9.2 "IEC 80601-2-60 : 2012 EN 80601-2-60
3365	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Dielectric strength	Cl. 8.8.3 "IEC 80601-2-60 : 2012 EN 80601-2-60
3366	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Energy Reduction Test	Cl 8.5.5.2 "IEC 80601-2-60 : 2012 EN 80601-2-60
3367	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 80601-2-60 : 2012 EN 80601-2-60
3368	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Humidity preconditioning treatment	Cl. 5.7 "IEC 80601-2-60 : 2012 EN 80601-2-60
3369	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Impedance and current-carrying capability	Cl 8.6.4 "IEC 80601-2-60 : 2012 EN 80601-2-60
3370	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 80601-2-60 : 2012 EN 80601-2-60
3371	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Instability – Overbalance	Cl 9.4.2 "IEC 80601-2-60 : 2012 EN 80601-2-60
3372	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 80601-2-60 : 2012 EN 80601-2-60
3373	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Interruption of Power Supply	Cl 11.8 "IEC 80601-2-60 : 2012 EN 80601-2-60
3374	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 80601-2-60 : 2012 EN 80601-2-60
3375	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 80601-2-60 : 2012 EN 80601-2-60
3376	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 80601-2-60 : 2012 EN 80601-2-60
3377	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Mechanical Strength	Cl 15.3 "IEC 80601-2-60 : 2012 EN 80601-2-60
3378	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 80601-2-60 : 2012 EN 80601-2-60
3379	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 80601-2-60 : 2012 EN 80601-2-60:
3380	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Overflow in Medical equipment	Cl 11.6.2 "IEC 80601-2-60 : 2012 EN 80601-2-60
3381	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Power input	Cl. 4.11 "IEC 80601-2-60 : 2012 EN 80601-2-60

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 311 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3382	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Residual voltage in attachment plug	Cl 8.4.3 "IEC 80601-2-60 : 2012 EN 80601-2-60
3383	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Single fault condition	Cl 13.2 "IEC 80601-2-60 : 2012 EN 80601-2-60
3384	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 80601-2-60 : 2012 EN 80601-2-60
3385	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 80601-2-60 : 2012 EN 80601-2-60
3386	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 80601-2-60 : 2012 EN 80601-2-60
3387	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Trapping Zone	Cl 9.2.2 "IEC 80601-2-60 : 2012 EN 80601-2-60
3388	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Dental equipment	Working voltage measurement	Cl 8.5.4 "IEC 80601-2-60 : 2012 EN 80601-2-60
3389	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electro cardiographic monitoring equipment	Leakage currents and Patient auxiliary currents	Cl 8.7.4.5 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3390	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3391	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Accuracy of signal reproduction	Cl.201.12.1.101.1 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3392	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3393	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Baseline reset	Cl.201.12.1.101.11 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3394	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Channel height and aspect ratio	Cl.201.12.1.101.16 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3395	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Characteristics of auditory ALARM SIGNALS	Cl.208.6.3.3.1 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 312 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3396	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3397	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Common mode rejection	Cl.201.12.1.101.10 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3398	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3399	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3400	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3401	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3402	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3403	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3404	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3405	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3406	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3407	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Frequency and impulse response	Cl.201.12.1.101.8 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3408	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	GAIN control and stability	Cl.201.12.1.101.6 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 313 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3409	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	GAIN INDICATOR	Cl.201.12.1.101.9 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3410	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Heart rate meter accuracy and response to irregular rhythm.	Cl.201.7.9.2.9.101 b) 4) "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3411	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Heart rate range, accuracy, and QRS detection range	Cl.201.12.1.101.15 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3412	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3413	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018
3414	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3415	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Input dynamic range and differential offset voltage	Cl.201.12.1.101.2 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3416	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Input impedance	Cl.201.12.1.101.3 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3417	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Input NOISE	Cl.201.12.1.101.4 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3418	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3419	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3420	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 314 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3421	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3422	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3423	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3424	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Mechanical Strength	Cl 15.3 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3425	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3426	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3427	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Multichannel crosstalk	Cl 201.12.1.101.5 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018
3428	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3429	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Pacemaker pulse display capability	Cl.201.12.1.101.12 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3430	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Power input	Cl. 4.11 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3431	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Rejection of pacemaker pulses	Cl.201.12.1.101.13 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3432	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3433	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Single fault condition	Cl 13.2 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 315 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3434	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3435	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3436	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Sweep speed	Cl.201.12.1.101.7 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3437	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Synchronizing pulse for cardioversion	Cl.201.12.1.101.14 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3438	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3439	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Tall T-wave rejection capability	Cl.201.12.1.101.17 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3440	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	TECHNICAL ALARM CONDITION indicating inoperable ME EQUIPMENT	Cl.208.6.6.2.104 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3441	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Time to alarm for heart rate ALARM CONDITIONS	Cl.208.6.6.2.103 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3442	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Time to alarm for tachycardia.	Cl.201.7.9.2.9.101 b) 6)"IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3443	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Trapping Zone	Cl 9.2.2 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3444	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographic monitoring equipment	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-27: 2011 EN 60601-2-27: 2014 IS 13450 : Part 2 : Sec 27 : 2018"
3445	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 316 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3446	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3447	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	CHANNEL crosstalk	Cl 201.12.4.106.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3448	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3449	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	COMMON MODE REJECTION	Cl 201.12.4.105.1 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3450	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3451	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3452	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3453	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3454	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3455	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3456	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3457	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3458	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 317 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3459	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	FILTERS (including line frequency interference FILTERS)	Cl 201.12.4.105.3 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3460	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Goldberger and Wilson LEADS	Cl 201.12.4.102.3.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3461	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	High frequency response	Cl 201.12.4.107.1.1.1 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3462	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3463	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3464	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Indication of inoperable ELECTROCARDIOGRAPH	Cl 201.12.4.101"IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3465	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3466	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Input impedance	Cl 201.12.4.103 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3467	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3468	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3469	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3470	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 318 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3471	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Linearity and dynamic range	Cl 201.12.4.107.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3472	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Low frequency (impulse) response	Cl 201.12.4.107.1.1.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3473	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3474	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3475	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Mechanical Strength	Cl 15.3 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3476	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3477	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3478	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Noise level	Cl 201.12.4.106.1 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3479	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3480	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Overload tolerance	Cl 201.12.4.105.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3481	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Power input	Cl. 4.11 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3482	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Recording speed	Cl 201.12.4.108.3.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 319 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3483	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Recovery time	Cl 201.12.4.102.4 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3484	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Requirements for absolute interval and wave duration measurements	Cl 201.12.1.101.3.1 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3485	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Requirements for amplitude measurements	Cl 201.12.1.101.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3486	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Requirements for interval measurements on biological ECGS	Cl 201.12.1.101.3.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3487	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3488	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Single fault condition	Cl 13.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3489	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3490	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3491	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3492	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Test with calibration ECGS	Cl 201.12.4.107.1.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3493	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Time and amplitude ruling	Cl 201.12.4.108.3.3 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3494	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Trapping Zone	Cl 9.2.2 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 320 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3495	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Use with cardiac pacemakers	Cl 201.12.4.109 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3496	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Electrocardiographs	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-25: 2011 EN 60601-2-25: 2015 IS 13450 : Part 2 : Sec 25: 2018"
3497	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3498	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3499	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3500	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3501	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3502	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3503	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3504	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3505	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3506	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3507	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 321 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3508	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3509	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3510	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3511	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3512	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3513	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3514	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5"IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3515	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3516	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3517	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Mechanical Strength	Cl 15.3 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3518	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3519	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3520	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3521	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Power input	Cl. 4.11 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 322 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3522	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Residual voltage in attachment plug	Cl 8.4.3"IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3523	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Single fault condition	Cl 13.2 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3524	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3525	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3526	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3"IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3527	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3528	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Trapping Zone	Cl 9.2.2 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3529	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3530	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Endoscopic equipment equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-18: 2009 EN 60601-2-18: 2015 IS 13450 : Part 2 : Sec 18 : 2014"
3531	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power source	Actuating parts of controls (knob pull and limitation of movement	Cl 15.4.6 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1 : 2011"
3532	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3533	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3534	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 323 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3535	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3536	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3537	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3538	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3539	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3540	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3541	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power source	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3542	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3543	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3544	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3545	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3546	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3547	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 324 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3548	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3549	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Mechanical Strength	Cl 15.3 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3550	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3551	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3552	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power source	Power input	Cl. 4.11 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3553	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power source	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3554	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Single fault condition	Cl 13.2 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3555	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3556	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3557	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3558	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power Source	Trapping Zone	Cl 9.2.2 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3559	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	External cardiac pacemakers with internal power source	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-31:2008 + AMD1: 2011 EN 60601-2-31: 2008 + A1: 2011"
3560	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 IEC 60601-2-16

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	325 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3561	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 IEC 60601-2-16
3562	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 IEC 60601-2-16:2018
3563	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Cord Anchorage	Cl 8.11.3.5 IEC 60601-2-16:2018
3564	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Cord Guard	Cl 8.11.3.6 IEC 60601-2-16: 2018
3565	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Creepage Distances and Air Clearances	Cl 8.9 IEC 60601-2-16: 2018
3566	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Defibrillation Protection	Cl. 8.5.5.1 IEC 60601-2-16: 2018
3567	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Determination of accessible parts	Cl 5.9.2 IEC 60601-2-16
3568	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Dielectric strength	Cl. 8.8.3 IEC 60601-2-16:2018
3569	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Energy Reduction Test	Cl 8.5.5.2 IEC 60601-2-16: 2018
3570	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Excessive temperatures in ME equipment	Cl. 11.1 IEC 60601-2-16: 2018
3571	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Humidity preconditioning treatment	Cl. 5.7 IEC 60601-2-16: 2018
3572	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Impedance and current-carrying capability	Cl 8.6.4 IEC 60601-2-16: 2018
3573	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 IEC 60601-2-16: 2018
3574	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Instability – Overbalance	Cl 9.4.2 IEC 60601-2-16: 2018
3575	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 IEC 60601-2-16: 2018
3576	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Interruption of Power Supply	Cl 11.8 IEC 60601-2-16: 2018
3577	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Leakage currents and Patient auxiliary currents Cl. 8.7.4.5	IEC 60601-2-16: 2018

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 326 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3578	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Measurement of Thickness of solid insulation	Cl 8.8.2 IEC 60601-2-16: 2018
3579	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 IEC 60601-2-16:2018
3580	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Mechanical Strength	Cl 15.3 IEC 60601-2-16: 2018
3581	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 IEC 60601-2-16: 2018
3582	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Medical equipment Identification, Marking and Documents	Cl 7 IEC 60601-2-16: 2018
3583	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Overflow in Medical equipment	Cl 11.6.2 IEC 60601-2-16: 2018
3584	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Power input	Cl. 4.11 IEC 60601-2-16: 2018
3585	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Residual voltage in attachment plug	Cl 8.4.3IEC 60601-2-16: 2018
3586	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Single fault condition	Cl 13.2 IEC 60601-2-16: 2018
3587	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 IEC 60601-2-16: 2018
3588	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 IEC 60601-2-16: 2018
3589	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Systems with Mechanical protective Devices	Cl 9.8.4IEC 60601-2-16: 2018
3590	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Trapping Zone	Cl 9.2.2IEC 60601-2-16: 2018
3591	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Hemodialysis, equipment	Working voltage measurement	Cl 8.5.4IEC 60601-2-16: 2018
3592	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3593	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3594	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 327 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3595	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3596	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3597	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3598	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3599	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3600	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3601	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 ""IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3602	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Energy Reduction Test	Cl 8.5.5.2"IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3603	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3604	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Humidity preconditioning treatment	Cl. 5.7"IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3605	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3606	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3607	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3608	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3609	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3610	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3611	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 328 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3612	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3613	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Mechanical Strength	Cl 15.3 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3614	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3615	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3616	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3617	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Power input	Cl. 4.11 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3618	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3619	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Single fault condition	Cl 13.2 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3620	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3621	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3622	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3623	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Trapping Zone	Cl 9.2.2 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3624	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High frequency surgical equipment	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-2: 2017 EN 60601-2-2: 2018 "
3625	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Actuating Parts of control	Cl 56.10 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3626	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Batteries	Cl 56.7 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3627	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Connectors of Power Supply Cords	Cl 57.4 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3628	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Construction and Layout	Cl 59IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3629	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Continuous Leakage currents and Patient Auxiliary current	Cl 19 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 329 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3630	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Creepage and Clearances	Cl 57.10 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3631	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Dielectric Strength Test	Cl 20.4 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3632	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Excessive Temperatures	Cl 42 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3633	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Fire Prevention	Cl 43 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3634	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Humidity	Cl 44.5 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3635	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Identification, marking and documents	Cl 6 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3636	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Ingress of Liquids	Cl 44.6 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3637	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Internal of the Power Supply	Cl 49 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3638	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Leakage	Cl 44.4 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3639	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	LIMITATION OF VOLTAGE AND/OR ENERGY	Cl 15 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3640	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Mains Supply Transformers	Cl 57.9IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3641	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Mechanical Strength Test	Cl 21 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3642	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Overflow	Cl 44.2 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3643	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Power input	Cl 7 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3644	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Protective Earthing , functional earthing and potential equalization	Cl 18 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3645	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Separation	Cl 17 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3646	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Spillage	Cl 44.3 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3647	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Stability and transportability	Cl 24IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 330 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3648	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	High-voltage generators of diagnostic X-ray generators	Abnormal operation and fault conditions	Cl 52 IS 13450 : Part 2 : Sec 7 : 2006 + A1: 2008 + A2
3649	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Accessible parts including and Applied parts	Cl 8.4.2 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3650	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Accuracy between SKIN TEMPERATURE and CONTROL TEMPERATURE	Cl 201.12.1.104 "IEC 60601-2-19; 2009 + A1: 2016 EN 60601-2-19:2009 + A1: 2016"
3651	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Accuracy of INCUBATOR TEMPERATURE control	Cl 201.12.1.106 "IEC 60601-2-19; 2009 + A1 : 2016 EN 60601-2-19:2009 + A1: 2016"
3652	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Accuracy of INCUBATOR TEMPERATURE indication	Cl 201.12.1.105 "IEC 60601-2-19; 2009 + A1 : 2016 EN 60601-2-19:2009 + A1: 2016"
3653	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Accuracy of indication of relative humidity	Cl 201.12.1.109 "IEC 60601-2-19; 2009 + A1 : 2016 EN 60601-2-19:2009 + A1: 2016"
3654	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Accuracy of SKIN TEMPERATURE SENSOR	Cl 201.12.1.103 "IEC 60601-2-19; 2009 + A1: 2016 EN 60601-2-19:2009 + A1: 2016"
3655	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3656	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Air velocity	Cl 201.12.1.111 "IEC 60601-2-19; 2009 + A1: 2016 EN 60601-2-19:2009 + A1: 2016"
3657	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Alarm systems	Cl 201.12.3 "IEC 60601-2-19; 2009 + A1: 2016 EN 60601-2-19:2009 + A1: 2016"
3658	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Barriers	Cl 201.9.8.3.101 "IEC 60601-2-19; 2009 + A1 : 2016 EN 60601-2-19:2009 + A1: 2016"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	331 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3659	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3660	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3661	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3662	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3663	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3664	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Defibrillation Protection	"IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3665	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018
3666	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3667	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Energy Reduction Test	"IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3668	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Excessive temperatures in ME equipment	"IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	332 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3669	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Humidity preconditioning treatment	Cl. 5.7"IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3670	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3671	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3672	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3673	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3674	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3675	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3676	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Leakage of liquid	Cl 201.13.2.6 "IEC 60601-2-19; 2009 + A1 : 2016 EN 60601-2-19:2009 + A1: 2016"
3677	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Mattress tray	Cl 201.9.8.3.102 "IEC 60601-2-19; 2009 + A1 : 2016 EN 60601-2-19:2009 + A1: 2016"
3678	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	333 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3679	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Mechanical Hazards associated with Moving parts	CL 9.2.3 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3680	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Mechanical Strength	Cl 15.3 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19: 2018"
3681	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19: 2018"
3682	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19: 2018"
3683	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Overflow in ME equipment	Cl 201.11.6.2 "IEC 60601-2-19; 2009 + A1 : 2016 EN 60601-2-19:2009 + A1: 2016"
3684	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19: 2018"
3685	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Overshoot of INCUBATOR TEMPERATURE	Cl 201.12.1.108 "IEC 60601-2-19; 2009 + A1 : 2016 EN 60601-2-19:2009 + A1: 2016"
3686	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Power input	Cl 4.11 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19 : 2018"
3687	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19: 2018"
3688	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Single fault condition	Cl 13.2 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19: 2018"
3689	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Spillage on ME equipment and ME systems	Cl 201.11.6.3 "IEC 60601-2-19; 2009 + A1 : 2016 EN 60601-2-19:2009 + A1: 2016"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 334 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3690	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19: 2018"
3691	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Stability of INCUBATOR TEMPERATURE	Cl 201.12.1.101 "IEC 60601-2-19; 2009 + A1 : 2016 EN 60601-2-19:2009 + A1: 2016"
3692	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19: 2018"
3693	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Supports and mounting brackets for accessories	Cl 201.9.8.101 "IEC 60601-2-19; 2009 + A1 : 2016 EN 60601-2-19:2009 + A1: 2016"
3694	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19: 2018"
3695	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Temperature and overload control devices	Cl 201.15.4.2 "IEC 60601-2-19; 2009 + A1 : 2016 EN 60601-2-19:2009 + A1: 2016"
3696	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Trapping Zone	Cl 9.2.2 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19: 2018"
3697	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Uniformity of INCUBATOR TEMPERATURE	Cl 201.12.1.102 "IEC 60601-2-19; 2009 + A1 : 2016 EN 60601-2-19:2009 + A1: 2016"
3698	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Warm-up time	Cl 201.12.1.107 "IEC 60601-2-19; 2009 + A1 : 2016 EN 60601-2-19:2009 + A1: 2016"
3699	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant incubators	Weighing scale	Cl 201.12.1.112 "IEC 60601-2-19; 2009 + A1 : 2016 EN 60601-2-19:2009 + A1: 2016"
3700	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Incubators	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-19: 2009 +AMD1: 2016 EN 60601-2-19: 2009 + A1: 2016 IS 13450 : Part 2 : Sec 19: 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 335 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3701	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3702	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3703	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3704	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3705	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3706	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3707	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3708	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3709	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3710	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3711	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 336 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3712	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3713	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3714	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3715	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Infrared radiation	Cl 201.10.6 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3716	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3717	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3718	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3719	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3720	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Interruption of the power supply / supply mains to me equipment	Cl. 11.8 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3721	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3722	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 337 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3723	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3724	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3725	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Mechanical Strength	Cl 15.3 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3726	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3727	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3728	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3729	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Power input	Cl. 4.11 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3730	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3731	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Single fault condition	Cl 13.2 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3732	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3733	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 338 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3734	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Strength of PATIENT or OPERATOR support or suspension systems	Cl 201.9.8.3 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3735	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3736	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Trapping Zone	Cl 9.2.2 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3737	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Ultraviolet Radiation	Cl 201.10.7 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3738	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant phototherapy equipment	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-50:2009+AMD1 : 2016 EN 60601-2-50:2009 + A1: 2016"
3739	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3740	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Accuracy of baby controlled radiant warmer operation	Cl 201.12.1.103 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3741	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Accuracy of distribution of irradiation to the mattress	Cl 201.12.1.102 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3742	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Accuracy of skin temperature sensor	Cl 201.12.1.101 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	339 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3743	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3744	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Alarm systems	Cl 201.12.3 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3745	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Application	Cl 201.15.4.2.1 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3746	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Audible alarms sound level	Cl 201.9.6.2.1.101 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3747	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Barriers	Cl 201.9.8.3.101 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3748	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3749	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3750	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3751	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	340 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3752	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3753	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3754	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3755	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3756	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3757	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3758	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3759	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3760	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Infrared radiation	Cl 201.10.6 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	341 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3761	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3762	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3763	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3764	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3765	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Interruption of the power supply	Cl 201.11.8 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3766	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant Radiant Warmers	Leakage currents and Patient auxiliary currents	"IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3767	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3768	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3769	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Mechanical Strength	Cl 15.3 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 342 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3770	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3771	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3772	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3773	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Power input	Cl. 4.11 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3774	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3775	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Single fault condition	Cl 13.2 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3776	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3777	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3778	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Supports and mounting brackets for accessories	Cl 201.9.8.101 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 343 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3779	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3780	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Time and irradiance limits in the manual mode	Cl 201.12.2.103 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3781	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Trapping Zone	Cl 9.2.2 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3782	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Weighing scale	Cl 201.12.1.105 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3783	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infant radiant warmers	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-21; 2009+ AMD1: 2016 EN 60601-2-21:2009 + A1: 2016 IS 13450 : Part 2 : Sec 21 : 2018"
3784	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3785	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3786	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3787	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3788	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3789	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 344 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3790	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3791	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3792	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3793	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3794	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3795	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3796	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3797	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Impedance and current-carrying capability Cl 8.6.4	"IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3798	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3799	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3800	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3801	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3802	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3803	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	345 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3804	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3805	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Mechanical Strength	Cl 15.3 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3806	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Mechanical strength and resistance to heat	Cl 8.8.4.1 Cl "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3807	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3808	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3809	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Power input	Cl. 4.11 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3810	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3811	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Single fault condition	Cl 13.2 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3812	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3813	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3814	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3815	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Trapping Zone	Cl 9.2.2 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3816	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Infusion pumps and Controllers	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-24 : 2011 EN 60601-2-24: 2015 IS 13450 : Part 2 : Sec 24 : 2009"
3817	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 346 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3818	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3819	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3820	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3821	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3822	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3823	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3824	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3825	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3826	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3827	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3828	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3829	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3830	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3831	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3832	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3833	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3834	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 347 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3835	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3836	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3837	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3838	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Mechanical Strength	Cl 15.3 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3839	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3840	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3841	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3842	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Power input	Cl. 4.11 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3843	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3844	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Single fault condition	Cl 13.2 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3845	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3846	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3847	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3848	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Trapping Zone	Cl 9.2.2 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3849	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Invasive blood pressure monitoring Equipment	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-34: 2011 EN 60601-2-34: 2014"
3850	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Accessible parts including and Applied parts	Cl. 8.4.2 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3851	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 348 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3852	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3853	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "ISO 80601-2-12: : 2011 EN ISO 80601-2-12: 2011"
3854	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Cord Anchorage	Cl 8.11.3.5 "ISO 80601-2-12: : 2011 EN ISO 80601-2-12: 2011"
3855	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Cord Guard	Cl 8.11.3.6 "ISO 80601-2-12: : 2011 EN ISO 80601-2-12: 2011"
3856	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Creepage Distances and Air Clearances	Cl 8.9 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3857	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Defibrillation Protection	Cl. 8.5.5.1 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3858	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Determination of accessible parts	Cl 5.9.2 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3859	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Dielectric strength	Cl. 8.8.3 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3860	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Energy Reduction Test	Cl 8.5.5.2 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3861	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Excessive temperatures in ME equipment	Cl. 11.1 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3862	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Humidity preconditioning treatment	Cl. 5.7 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3863	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Impedance and current-carrying capability	Cl 8.6.4 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3864	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3865	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Instability – Overbalance	Cl 9.4.2 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3866	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 349 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3867	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Interruption of Power Supply	Cl 11.8 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3868	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3869	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Measurement of Thickness of solid insulation	Cl 8.8.2 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3870	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3871	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Mechanical Strength	Cl 15.3"ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3872	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Mechanical strength and resistance to heat	Cl 8.8.4.1 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3873	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Medical equipment Identification, Marking and Documents	Cl 7 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3874	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Overflow in Medical equipment	Cl 11.6.2 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3875	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Power input	Cl. 4.11 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3876	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Residual voltage in attachment plug	Cl 8.4.3 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3877	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Single fault condition	Cl 13.2 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3878	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3879	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3880	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Systems with Mechanical protective Devices	Cl 9.8.4 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3881	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Trapping Zone	Cl 9.2.2 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"
3882	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Lung Ventilators	Working voltage measurement	Cl 8.5.4 "ISO 80601-2-12: 2011 EN ISO 80601-2-12: 2011"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 350 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3883	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3884	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3885	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3886	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3887	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3888	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3889	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3890	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3891	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3892	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3893	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 351 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3894	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3895	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3896	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3"IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3897	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3898	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3899	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3900	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3901	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Mechanical Strength	Cl 15.3 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3902	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3903	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3904	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 352 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3905	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Power input	Cl. 4.11 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3906	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3907	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Single fault condition	Cl 13.2 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3908	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3909	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3910	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3911	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Trapping Zone	Cl 9.2.2 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3912	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3913	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic resonance equipment	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3914	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Magnetic Resonance Imaging system (MRI)	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3"IEC 60601-2-33 : 2010 + AMD1 : 2013 + AMD2: 2015 EN 60601-2-33: 2010 + A12: 2016"
3915	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Accessible parts including and Applied parts	Cl. 8.4.2 EN 60601-2-52: 2010 + AMD1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 353 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3916	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3917	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3918	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3919	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3920	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3921	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3922	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3923	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3924	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3925	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3926	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3927	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3928	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3929	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 354 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3930	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3931	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3932	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3933	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3934	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3935	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3936	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Mechanical Strength	Cl 15.3 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3937	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3938	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3939	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3940	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Power input	Cl. 4.11 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3941	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3942	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Single fault condition	Cl 13.2 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3943	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 355 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3944	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3945	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3946	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Trapping Zone	Cl 9.2.2 "IEC 60601-2-52: 2009 + AMD1 EN 60601-2-52: 2010 + AMD1
3947	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical beds	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-52: 2009 + AMD1: 2015 EN 60601-2-52: 2010 + AMD1
3948	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3949	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3950	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3951	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	356 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3952	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3953	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3954	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Determination of accessible parts	Cl 5.9.2 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3955	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Dielectric strength	Cl. 8.8.3 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3956	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	357 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3957	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3958	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3959	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3960	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3961	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Interruption of Power Supply	Cl 11.8 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	358 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3962	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3963	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3964	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Mechanical Strength	Cl 15.3 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3965	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3966	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	359 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3967	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Power input	Cl. 4.11 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3968	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3969	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Single fault condition	Cl 13.2 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3970	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3971	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Working voltage measurement	Cl 8.5.4 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	360 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3972	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Trapping Zone Test	"IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3973	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Electrical Equipment	Trapping Zone Test	Cl 9.2.2 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3974	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Product	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3975	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Product	Cord Guard	Cl 8.11.3.6 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3976	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Product	Instability – Overbalance	Cl 9.4.2 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	361 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3977	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Product	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3978	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Product	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3979	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Product	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3980	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Medical Product	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-1: 2005 + AMD1 : 2012 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014 IS 13450 : Part 1 : 2018 IEC 60601-1:2005+AMD1:2012 +AMD2:2020 EN 60601-1: 2006 + A11: 2011 + A1: 2013+ A12 : 2014+ A2: 2021"
3981	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3982	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3983	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3984	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 362 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3985	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3986	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3987	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3988	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3989	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3990	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3991	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3992	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3993	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3994	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3995	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3996	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3997	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
3998	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 363 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
3999	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
4000	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
4001	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
4002	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Mechanical Strength	Cl 15.3 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
4003	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
4004	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
4005	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
4006	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Power input	Cl. 4.11 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
4007	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
4008	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Single fault condition	Cl 13.2 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
4009	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
4010	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
4011	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
4012	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Trapping Zone	Cl 9.2.2 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 364 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4013	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Multifunction patient Monitoring equipment	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-49: 2011 EN 60601-2-49: 2015 13450 : Part 2 : Sec 49 : 2018"
4014	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4015	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4016	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4017	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4018	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4019	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4020	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4021	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Defibrillation Protection	Cl. 8.5.5.1"IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4022	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4023	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4024	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 365 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4025	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4026	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4027	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4028	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4029	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4030	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"`
4031	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4032	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4033	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4034	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4035	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Mechanical Strength	Cl 15.3 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4036	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4037	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 366 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4038	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4039	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Power input	Cl. 4.11 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4040	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4041	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Single fault condition	Cl 13.2 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4042	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4043	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4044	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4045	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Trapping Zone	Cl 9.2.2 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4046	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Nerve and muscle Stimulators	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-10:2012 + AMD1: 2016 EN 60601-2-10: 2015 + A1: 2016"
4047	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-57 : 2011 EN 60601-2-57 : 2011"
4048	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-57 : 2011 EN 60601-2-57 : 2011"
4049	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-57 : 2011 EN 60601-2-57 : 2011"
4050	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use	Trapping Zone	Cl 9.2.2 "IEC 60601-2-57 : 2011 EN 60601-2-57 : 2011"
4051	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-57 : 2011 EN 60601-2-57 : 2011"
4052	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Noninvasive Blood PressureAutomated non-invasive sphygmomano meters	LIMITATION OF VOLTAGE AND/OR ENERGY	Cl 15 IEC 80601-2-30 : 2009 + AMD1: 2013 IS 13450 Part 2 Sec 30: 2008

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 367 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4053	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Accessible parts including and Applied parts	Cl. 8.4.2 IEC 60601-2-46: 2016
4054	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 IEC 60601-2-46: 2016
4055	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 IEC 60601-2-46: 2016
4056	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 IEC 60601-2-46: 2016
4057	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Cord Anchorage	Cl 8.11.3.5 IEC 60601-2-46: 2016
4058	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Cord Guard	Cl 8.11.3.6 IEC 60601-2-46: 2016
4059	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Creepage Distances and Air Clearances	Cl 8.9 IEC 60601-2-46: 2016
4060	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Defibrillation Protection	Cl. 8.5.5.1 IEC 60601-2-46: 2016
4061	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Determination of accessible parts	Cl 5.9.2 IEC 60601-2-46: 2016
4062	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Dielectric strength	Cl. 8.8.3 IEC 60601-2-46: 2016
4063	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Energy Reduction Test	Cl 8.5.5.2 IEC 60601-2-46: 2016
4064	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Excessive temperatures in ME equipment	Cl. 11.1 IEC 60601-2-46: 2016
4065	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Humidity preconditioning treatment	Cl. 5.7 IEC 60601-2-46: 2016
4066	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Impedance and current-carrying capability	Cl 8.6.4 IEC 60601-2-46: 2016
4067	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 IEC 60601-2-46: 2016
4068	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Instability – Overbalance	Cl 9.4.2 IEC 60601-2-46: 2016
4069	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 IEC 60601-2-46: 2016

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 368 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4070	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Interruption of Power Supply	Cl 11.8 IEC 60601-2-46: 2016
4071	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 IEC 60601-2-46: 2016
4072	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Measurement of Thickness of solid insulation	Cl 8.8.2 IEC 60601-2-46: 2016
4073	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Mechanical Hazards associated with Moving parts	Cl 9.2.3 IEC 60601-2-46: 2016
4074	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Mechanical Strength	Cl 15.3 IEC 60601-2-46: 2016
4075	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Mechanical strength and resistance to heat	Cl 8.8.4.1 IEC 60601-2-46: 2016
4076	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Medical equipment Identification, Marking and Documents	Cl 7 IEC 60601-2-46: 2016
4077	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Overflow in Medical equipment	Cl 11.6.2 IEC 60601-2-46: 2016
4078	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Power input	Cl. 4.11IEC 60601-2-46: 2016
4079	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Residual voltage in attachment plug	Cl 8.4.3 IEC 60601-2-46: 2016
4080	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Single fault condition	Cl 13.2 IEC 60601-2-46: 2016
4081	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Spillage on Medical Equipment and Medical System	Cl 11.6.3IEC 60601-2-46: 2016
4082	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 IEC 60601-2-46: 2016
4083	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Systems with Mechanical protective Devices	Cl 9.8.4 IEC 60601-2-46: 2016
4084	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Trapping Zone	Cl 9.2.2 IEC 60601-2-46: 2016
4085	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Operating Tables	Working voltage measurement	Cl 8.5.4 IEC 60601-2-46: 2016
4086	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Single fault condition	Cl 13.2IEC 60601-2-39: 2018
4087	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Accessible parts including and Applied parts	Cl. 8.4.2IEC 60601-2-39 : 2018

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 369 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4088	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 IEC 60601-2-39 : 2018
4089	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 IEC 60601-2-39 : 2018
4090	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 IEC 60601-2-39 : 2018
4091	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Cord Anchorage	Cl 8.11.3.5 IEC 60601-2-39 : 2018
4092	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Cord Guard	Cl 8.11.3.6 IEC 60601-2-39 : 2018
4093	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Creepage Distances and Air Clearances	Cl 8.9 IEC 60601-2-39 : 2018
4094	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Defibrillation Protection	Cl. 8.5.5.1 IEC 60601-2-39 : 2018
4095	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Determination of accessible parts	Cl 5.9.2 IEC 60601-2-39 : 2018
4096	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Dielectric strength	Cl. 8.8.3 IEC 60601-2-39: 2018
4097	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Energy Reduction Test	Cl 8.5.5.2 IEC 60601-2-39: 2018
4098	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Excessive temperatures in ME equipment	Cl. 11.1 IEC 60601-2-39: 2018
4099	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Humidity preconditioning treatment	Cl. 5.7 IEC 60601-2-39: 2018
4100	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Impedance and current-carrying capability	Cl 8.6.4 IEC 60601-2-39: 2018
4101	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 IEC 60601-2-39: 2018
4102	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Instability – Overbalance	Cl 9.4.2IEC 60601-2-39: 2018
4103	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 IEC 60601-2-39: 2018
4104	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Interruption of Power Supply	Cl 11.8 IEC 60601-2-39: 2018

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 370 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4105	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 IEC 60601-2-39: 2018
4106	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Measurement of Thickness of solid insulation	Cl 8.8.2 IEC 60601-2-39: 2018
4107	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 IEC 60601-2-39: 2018
4108	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Mechanical Strength	Cl 15.3 IEC 60601-2-39: 2018
4109	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 IEC 60601-2-39: 2018
4110	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Medical equipment Identification, Marking and Documents	Cl 7 IEC 60601-2-39: 2018
4111	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Power input	Cl. 4.11 IEC 60601-2-39: 2018
4112	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Residual voltage in attachment plug	Cl 8.4.3 IEC 60601-2-39: 2018
4113	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 IEC 60601-2-39: 2018
4114	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 IEC 60601-2-39: 2018
4115	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Systems with Mechanical protective Devices	Cl 9.8.4 IEC 60601-2-39: 2018
4116	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Peritoneal dialysis equipment	Working voltage measurement	Cl 8.5.4 IEC 60601-2-39: 2018
4117	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Physiologic closed-loop controllers	Requirements for PHYSIOLOGIC CLOSED-LOOP CONTROLLER (PCLC) development	Cl 8 "IEC 60601-1-10:2007 / AMD1: 2013 EN 60601-1-10:2008+A1: 2015"
4118	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Humidity preconditioning treatment	Cl. 5.7 ISO 80601-2-61 : 2011
4119	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Accessible parts including and Applied parts	Cl. 8.4.2 ISO 80601-2-61 : 2011
4120	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 ISO 80601-2-61 : 2011
4121	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 ISO 80601-2-61 : 2011

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 371 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4122	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 ISO 80601-2-61 : 2011
4123	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Cord Anchorage	Cl 8.11.3.5 ISO 80601-2-61 : 2011
4124	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Cord Guard	Cl 8.11.3.6 ISO 80601-2-61 : 2011
4125	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Creepage Distances and Air Clearances Cl 8.9	Cl 8.9 ISO 80601-2-61 : 2011
4126	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Defibrillation Protection	Cl. 8.5.5.1 ISO 80601-2-61 : 2011
4127	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Determination of accessible parts	Cl 5.9.2 ISO 80601-2-61 : 2011
4128	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Dielectric strength	Cl. 8.8.3 ISO 80601-2-61 : 2011
4129	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Energy Reduction Test	Cl 8.5.5.2 ISO 80601-2-61 : 2011
4130	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Excessive temperatures in ME equipment	Cl. 11.1 ISO 80601-2-61 : 2011
4131	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Impedance and current-carrying capability	Cl 8.6.4 ISO 80601-2-61 : 2011
4132	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 ISO 80601-2-61 : 2011
4133	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Instability – Overbalance	Cl 9.4.2 ISO 80601-2-61 : 2011
4134	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 ISO 80601-2-61 : 2011
4135	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Interruption of Power Supply	Cl 11.8 ISO 80601-2-61 : 2011
4136	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 ISO 80601-2-61 : 2011
4137	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Measurement of Thickness of solid insulation	Cl 8.8.2 ISO 80601-2-61 : 2011
4138	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Mechanical Hazards associated with Moving parts	Cl 9.2.3 ISO 80601-2-61 : 2011
4139	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Mechanical Strength	Cl 15.3 ISO 80601-2-61 : 2011

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 372 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4140	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Mechanical strength and resistance to heat	Cl 8.8.4.1ISO 80601-2-61 : 2011
4141	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Medical equipment Identification, Marking and Documents	Cl 7 ISO 80601-2-61 : 2011
4142	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Overflow in Medical equipment	Cl 11.6.2 ISO 80601-2-61 : 2011
4143	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Power input	Cl. 4.11 ISO 80601-2-61 : 2011
4144	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Residual voltage in attachment plug	Cl 8.4.3 ISO 80601-2-61 : 2011
4145	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Single fault condition	Cl 13.2 ISO 80601-2-61 : 2011
4146	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Spillage on Medical Equipment and Medical System	Cl 11.6.3 ISO 80601-2-61 : 2011
4147	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 ISO 80601-2-61 : 2011
4148	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Systems with Mechanical protective Devices	Cl 9.8.4 ISO 80601-2-61 : 2011
4149	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Trapping Zone	Cl 9.2.2ISO 80601-2-61 : 2011
4150	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Pulse Oximeter	Working voltage measurement	Cl 8.5.4 ISO 80601-2-61 : 2011
4151	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Radiation protection in diagnostic X-ray equipment	Focal spot to image receptor distance	(Cl. 8.5.2) "EN 60601-1-3:2008 + A11: 2016 IS 13450 : Part 1 : Sec 3 : 2014 IEC 60601-1-3:2008 + AMD1
4152	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Accessible parts including and Applied parts	Cl. 8.4.2 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4153	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4154	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4155	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 373 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4156	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Cord Anchorage	Cl 8.11.3.5 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4157	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Cord Guard	Cl 8.11.3.6"ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4158	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Creepage Distances and Air Clearances	Cl 8.9 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4159	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Defibrillation Protection	Cl. 8.5.5.1"ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4160	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Determination of accessible parts	Cl 5.9.2 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4161	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Dielectric strength	Cl. 8.8.3 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4162	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Energy Reduction Test	Cl 8.5.5.2 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4163	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Excessive temperatures in ME equipment	Cl. 11.1 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4164	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Humidity preconditioning treatment	Cl. 5.7 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4165	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Impedance and current-carrying capability	Cl 8.6.4 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4166	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4167	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Instability – Overbalance	Cl 9.4.2 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4168	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4169	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Interruption of Power Supply	Cl 11.8 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4170	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4171	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Measurement of Thickness of solid insulation	Cl 8.8.2 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4172	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4173	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Mechanical Strength	Cl 15.3 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 374 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4174	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Mechanical strength and resistance to heat	Cl 8.8.4.1 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4175	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Medical equipment Identification, Marking and Documents	Cl 7 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4176	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Overflow in Medical equipment	Cl 11.6.2 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4177	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Power input	Cl. 4.11 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4178	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Residual voltage in attachment plug	Cl 8.4.3 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4179	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Single fault condition	Cl 13.2 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4180	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4181	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4182	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Systems with Mechanical protective Devices	Cl 9.8.4 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4183	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Trapping Zone	Cl 9.2.2 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4184	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Respiratory gas monitors	Working voltage measurement	Cl 8.5.4 "ISO 80601-2-55 : 2018 EN 80601-2-55 : 2018"
4185	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4186	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4187	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4188	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4189	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 375 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4190	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4191	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4192	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4193	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4194	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4195	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4196	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4197	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4198	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4199	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4200	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4201	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4202	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4203	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 376 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4204	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4205	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Mechanical Strength	Cl 15.3 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4206	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4207	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4208	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4209	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Power input	Cl. 4.11 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4210	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4211	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Single fault condition	Cl 13.2 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4212	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4213	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4214	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4215	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Trapping Zone	Cl 9.2.2 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4216	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Surgical, Cosmetic, Therapeutic and diagnostic Laser equipment	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-22: 2007+AMD1: 2012 EN 60601-2-22: 2013"
4217	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 377 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4218	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4219	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4220	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4221	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4222	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4223	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4224	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4225	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4226	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4227	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4228	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4229	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4230	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4231	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	378 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4232	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4233	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4234	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4235	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4236	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4237	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4238	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4239	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Mechanical Strength	Cl 15.3 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4240	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4241	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4242	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Power input	Cl. 4.11 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4243	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4244	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4245	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Single fault condition	Cl 13.2 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 379 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4246	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4247	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4248	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4249	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Trapping Zone	Cl 9.2.2 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4250	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Therapeutic X-ray equipment	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-8:2010 + AMD1: 2015 EN 60601-2-8:2015 + A1
4251	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4252	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4253	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4254	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4255	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4256	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4257	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	380 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4258	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4259	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4260	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4261	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4262	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4263	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4264	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4265	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4266	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4267	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4268	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	381 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4269	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4270	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4271	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Mechanical Strength	Cl 15.3 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4272	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4273	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4274	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Overflow in Medical equipment	Cl 11.6.2 IEC 60601-2-39: 2018
4275	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4276	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Power input	Cl. 4.11 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4277	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Protective against excessive temperature and other hazard	Cl 201.11 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4278	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4279	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Single fault condition	Cl 13.2 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4280	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 382 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4281	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4282	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4283	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Thermal Cycling	Cl 201.8.9.3.4 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4284	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Trapping Zone	Cl 9.2.2 IEC 60601-2-39: 2018
4285	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Trapping Zone	Cl 9.2.2 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4286	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic medical diagnostic and monitoring equipment	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-37:2007+ AMD1 : 2015 EN 60601-2-37:2008+ A1: 2015"
4287	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4288	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4289	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4290	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4291	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4292	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	383 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4293	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4294	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4295	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018
4296	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4297	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4298	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4299	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4300	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4301	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4302	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4303	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4304	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4305	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4306	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 384 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4307	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4308	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Mechanical Strength	Cl 15.3 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4309	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4310	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4311	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4312	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Power input	Cl. 4.11 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4313	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4314	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Single fault condition	Cl 13.2 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4315	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4316	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4317	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4318	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Trapping Zone	Cl 9.2.2 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"
4319	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	Ultrasonic physiotherapy equipment	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-5: 2009 EN 60601-2-5: 2015 IS 13450 : Part 2 : Sec 5 : 2018"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	385 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4320	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-45: 2011 +AMD1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015 EN 60601-2-45: 2011 + A1 : 2015"
4321	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-45: 2011 +AMD1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015 EN 60601-2-45: 2011 + A1 : 2015"
4322	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4323	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4324	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4325	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4326	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4327	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4328	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4329	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 386 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4330	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4331	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4332	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4333	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4334	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4335	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4336	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4337	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4338	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4339	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 387 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4340	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4341	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Mechanical Strength	Cl 15.3 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4342	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4343	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4344	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4345	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Power input	Cl. 4.11 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4346	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4347	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Single fault condition	Cl 13.2 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4348	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4349	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 388 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4350	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4351	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Trapping Zone	Cl 9.2.2 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4352	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment and mammographic stereotactic devices	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-45: 2011 +AMD1 : 2015 EN 60601-2-45: 2011 + A1 : 2015 IS 13450 : Part 2 : Sec 45 : 2015"
4353	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4354	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4355	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4356	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4357	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4358	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4359	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4360	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	389 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4361	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4362	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4363	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4364	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4365	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4366	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4367	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4368	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1:
4369	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4370	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4371	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 390 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4372	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4373	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4374	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Mechanical Strength	Cl 15.3 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4375	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4376	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4377	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4378	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Power input	Cl. 4.11 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4379	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4380	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Single fault condition	Cl 13.2 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4381	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4382	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 391 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4383	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4384	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Trapping Zone	Cl 9.2.2 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4385	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for interventional procedures	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-43: 2010 + AMD1 : 2017 IS 13450 : Part 2 : Sec 43 : 2016 EN 60601-2-43: 2010 + A1
4386	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Accessible parts including and Applied parts	Cl. 8.4.2 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4387	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1
4388	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4389	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4390	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Cord Anchorage	Cl 8.11.3.5 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4391	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Cord Guard	Cl 8.11.3.6 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4392	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Creepage Distances and Air Clearances	Cl 8.9 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 392 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4393	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Defibrillation Protection	Cl. 8.5.5.1 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4394	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Determination of accessible parts	Cl 5.9.2 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4395	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Dielectric strength	Cl. 8.8.3 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4396	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Energy Reduction Test	Cl 8.5.5.2 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4397	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Excessive temperatures in ME equipment	Cl. 11.1 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4398	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Humidity preconditioning treatment	Cl. 5.7 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4399	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Impedance and current-carrying capability	Cl 8.6.4 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4400	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4401	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Instability – Overbalance	Cl 9.4.2 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4402	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Instability from unwanted lateral movement (Including Sliding	Cl 9.4.3 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 393 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4403	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Interruption of Power Supply	Cl 11.8 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4404	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4405	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Measurement of Thickness of solid insulation	Cl 8.8.2 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4406	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Mechanical Hazards associated with Moving parts	Cl 9.2.3 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4407	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Mechanical Strength	Cl 15.3 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4408	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Mechanical strength and resistance to heat	Cl 8.8.4.1 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4409	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Medical equipment Identification, Marking and Documents	Cl 7 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4410	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Overflow in Medical equipment	Cl 11.6.2 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4411	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Power input	Cl. 4.11 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4412	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Residual voltage in attachment plug	Cl 8.4.3 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	394 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4413	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Single fault condition	Cl 13.2 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4414	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Spillage on Medical Equipment and Medical System	Cl 11.6.3 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4415	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4416	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Systems with Mechanical protective Devices	Cl 9.8.4 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4417	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Trapping Zone	Cl 9.2.2 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4418	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray equipment for radiography and radioscopy	Working voltage measurement	Cl 8.5.4 "IEC 60601-2-54:2009 + AMD1:2015 + AMD 2 : 2018 EN 60601-2-54:2009 + AMD1: 2015 IS 13450 : Part 2 : Sec 54
4419	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Accessible parts including and Applied parts	Cl. 8.4.2 IEC 60601-2-28
4420	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Actuating parts of controls (knob pull and limitation of movement)	Cl 15.4.6 IEC 60601-2-28
4421	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Cleaning and disinfection of Medical equipment and medical Systems	Cl 11.6.6 IEC 60601-2-28
4422	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Constructional requirements for fire enclosures of Medical equipment	Cl 11.3 IEC 60601-2-28
4423	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Cord Anchorage	Cl 8.11.3.5 IEC 60601-2-28
4424	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Cord Guard	Cl 8.11.3.6 IEC 60601-2-28
4425	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Creepage Distances and Air Clearances	Cl 8.9 IEC 60601-2-28

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 395 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4426	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Defibrillation Protection	Cl. 8.5.5.1 IEC 60601-2-28
4427	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Determination of accessible parts	Cl 5.9.2 IEC 60601-2-28
4428	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Dielectric strength	Cl. 8.8.3 IEC 60601-2-28
4429	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Energy Reduction Test	Cl 8.5.5.2 IEC 60601-2-28
4430	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Excessive temperatures in ME equipment	Cl. 11.1 IEC 60601-2-28
4431	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Humidity preconditioning treatment	Cl. 5.7 IEC 60601-2-28
4432	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Impedance and current-carrying capability	Cl 8.6.4 IEC 60601-2-28
4433	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Ingress of water or particulate matter into ME equipment and ME systems	Cl 11.6.5 IEC 60601-2-28
4434	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Instability – Overbalance	Cl 9.4.2 IEC 60601-2-28
4435	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Instability from unwanted lateral movement (Including Sliding)	Cl 9.4.3 IEC 60601-2-28
4436	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Interruption of Power Supply	Cl 11.8 IEC 60601-2-28
4437	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Leakage currents and Patient auxiliary currents	Cl. 8.7.4.5 IEC 60601-2-28
4438	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Measurement of Thickness of solid insulation	Cl 8.8.2 IEC 60601-2-28
4439	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Mechanical Hazards associated with Moving parts	Cl 9.2.3 IEC 60601-2-28
4440	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Mechanical Strength	Cl 15.3 IEC 60601-2-28
4441	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Mechanical strength and resistance to heat	Cl 8.8.4.1IEC 60601-2-28
4442	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Medical equipment Identification, Marking and Documents	Cl 7 IEC 60601-2-28
4443	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Overflow in Medical equipment	Cl 11.6.2 IEC 60601-2-28

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 396 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4444	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Power input	Cl. 4.11 IEC 60601-2-28
4445	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Residual voltage in attachment plug	Cl 8.4.3 IEC 60601-2-28
4446	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Single fault condition	Cl 13.2 IEC 60601-2-28
4447	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Spillage on Medical Equipment and Medical System	Cl 11.6.3 IEC 60601-2-28
4448	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Strength of Patient or Operator support for Suspension systems	Cl 9.8.3 IEC 60601-2-28
4449	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Systems with Mechanical protective Devices	Cl 9.8.4 IEC 60601-2-28
4450	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Trapping Zone	Cl 9.2.2 IEC 60601-2-28
4451	ELECTRONICS- MEDICAL ELECTRICAL EQUIPMENT	X-ray tube assemblies for medical diagnosis	Working voltage measurement	Cl 8.5.4 IEC 60601-2-28
4452	ELECTRONICS- MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Cable anchorage test for armoured cable	(Clause No. 9.4) EN 62444
4453	ELECTRONICS- MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Cable anchorage test for armoured cable	(Clause No. 9.4) IEC 62444
4454	ELECTRONICS- MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Cable anchorage test for non-armoured cable	(Clause No. 9.3) EN 62444
4455	ELECTRONICS- MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Cable anchorage test for non-armoured cable	(Clause No. 9.3) IEC 62444
4456	ELECTRONICS- MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Cable retention test	(Clause No. 9.2) IEC 62444
4457	ELECTRONICS- MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Cable retention test	(Clause No. 9.2) EN 62444
4458	ELECTRONICS- MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Degree of protection against foreign solid objects	(Clause No. 12.1.2) IEC 62444

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	397 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4459	ELECTRONICS-MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Degree of protection against foreign solid objects	(Clause No. 12.1.2) EN 62444
4460	ELECTRONICS-MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Degree of protection against ingress of water	(Clause No. 12.1.3) EN 62444
4461	ELECTRONICS-MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Degree of protection against ingress of water	(Clause No. 12.1.3) IEC 62444
4462	ELECTRONICS-MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Durability and legibilit	(Clause No.7.2) IEC 62444
4463	ELECTRONICS-MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Durability and legibility	(Clause No.7.2) EN 62444
4464	ELECTRONICS-MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Equipotential bonding to electrical equipment	(Clause No. 10.1) EN 62444
4465	ELECTRONICS-MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Equipotential bonding to electrical equipment	(Clause No. 10.1) IEC 62444
4466	ELECTRONICS-MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Equipotential bonding to metallic layer(s) of cable	(Clause No. 10.2) EN 62444
4467	ELECTRONICS-MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Equipotential bonding to metallic layer(s) of cable	(Clause No. 10.2) IEC 62444
4468	ELECTRONICS-MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Marking	(Clause No.7.1) IEC 62444
4469	ELECTRONICS-MISCELLANEOUS PRODUCTS	Cable glands for electrical installations	Marking	(Clause No.7.1) EN 62444
4470	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Bending test (Clause.6.5 Test Phase C1)	IEC 62852:2014/AMD1
4471	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Clearances and Creepage distances (Clause.6.5, Test phase A1.2)	IEC 62852:2014/AMD1
4472	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Degree of protection (Clause.6.5 Test Phase F1)	IEC 62852:2014/AMD1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	398 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4473	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Degree of protection IP code (Clause.6.5 Test Phase F2)	IEC 62852:2014/AMD1
4474	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Dielectric strength (Clause.6.5 Test Phase F3)	IEC 62852:2014/AMD1
4475	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Dielectric strength (Clause.6.5 Test Phase G2)	IEC 62852:2014/AMD1
4476	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Durability of marking (Clause.6.5, Test phase A2)	IEC 62852:2014/AMD1
4477	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Final measurement of Contact resistance (Clause.6.5 Test Phase B3)	IEC 62852:2014/AMD1
4478	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Final measurement of Contact resistance (Clause.6.5 Test Phase C2)	IEC 62852:2014/AMD1
4479	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Flammability (Clause.6.5 Test Phase G3)	IEC 62852:2014/AMD1
4480	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Flammability (Clause.6.5 Test Phase G4)	IEC 62852:2014/AMD1
4481	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Initial measurement of Contact resistance (Clause.6.5 Test Phase B1)	IEC 62852:2014/AMD1
4482	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Mechanical strength at lower temperature (Clause.6.5, Test Phase A8)	IEC 62852:2014/AMD1
4483	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Mechanical strength impact (Clause.6.5 Test Phase A7)	IEC 62852:2014/AMD1
4484	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Temperature rise test (Clause.6.5, Test Phase D2)	IEC 62852:2014/AMD1
4485	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for DC-application in photovoltaic systems	Visual and dimensional examination (Clause.6.5, Test Phase A 1.1)	IEC 62852:2014/AMD1
4486	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for Photovoltaic Systems-safety requirements and tests	Damp heat (Clause.6.5, Test Phase E3)	IEC 62852:2014/AMD1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	399 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4487	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for Photovoltaic Systems-safety requirements and tests	Dielectric Strength (Clause.6.5, Test Phase E4, Voltage proof)	IEC 62852:2014/AMD1
4488	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for Photovoltaic Systems-safety requirements and tests	Dry heat (Clause.6.5, Test Phase D3)	IEC 62852:2014/AMD1
4489	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for Photovoltaic Systems-safety requirements and tests	Final measurement of Contact resistance (Clause.6.5 Test Phase D4)	IEC 62852:2014/AMD1
4490	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for Photovoltaic Systems-safety requirements and tests	Final measurement of Contact resistance (Clause.6.5 Test Phase E6)	IEC 62852:2014/AMD1
4491	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for Photovoltaic Systems-safety requirements and tests	Initial measurement of Contact resistance (Clause.6.5 Test Phase E1)	IEC 62852:2014/AMD1
4492	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for Photovoltaic Systems-safety requirements and tests	Initial measurement of Contact resistance (Clause.6.5 Test Phase D1)	IEC 62852:2014/AMD1
4493	ELECTRONICS-MISCELLANEOUS PRODUCTS	Connectors for Photovoltaic Systems-safety requirements and tests	Visual and dimensional examination (Clause.6.5 Test Phase A1.1)	IEC 62852: 2014+Amd 1
4494	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic systems - Power conditioners - Procedure for measuring Efficiency	No-load loss	IEC 61683:1999 / BS EN 61683:2000 (Cl.7.1), IS/IEC 61683:1999 (Cl.7.1)
4495	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic systems - Power conditioners - Procedure for measuring Efficiency	Resistive loads/utility grid	IEC 61683:1999 / BS EN 61683:2000 (Cl.4.6), IS/IEC 61683:1999 (Cl.4.6)
4496	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic systems - Power conditioners - Procedure for measuring Efficiency	Ripple and distortion	IEC 61683:1999 / BS EN 61683:2000 (Cl.4.5), IS/IEC 61683:1999 (Cl.4.5)
4497	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic Systems - Power conditioners - Procedure for measuring efficiency	Input Voltage	IEC 61683:1999 / BS EN 61683:2000 (Cl.4.4), IS/IEC 61683:1999 (Cl.4.4)
4498	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic systems - Power conditioners - Procedure for measuring Efficiency	Reactive load	IEC 61683:1999 / BS EN 61683:2000 (Cl.4.7), IS/IEC 61683:1999 (Cl.4.7)
4499	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic systems - Power conditioners - Procedure for measuring Efficiency	standby loss	IEC 61683:1999 / BS EN 61683:2000 (Cl.7.2), IS/IEC 61683:1999 (Cl.7.2)
4500	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Backfeed voltage protection	IEC 62109-1 (Cl. 4.6)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	400 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4501	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Backfeed voltage protection	IS 16221(Part 1) (Cl. 4.6)
4502	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Chemical hazards	IEC 62109-1 (Cl. 12/12.1)
4503	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Chemical hazards	IS 16221(Part 1) (Cl. 12/12.1)
4504	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Clearance & Creepage distance determination for frequencies greater than 30KHz	IEC 62109-1 Cl. Annex G
4505	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Clearance & Creepage distance determination for frequencies greater than 30KHz	IS 16221(Part 1) Cl. Annex G
4506	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Components	IEC 62109-1 (Cl. 14)
4507	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Components	IS 16221(Part 1) (Cl.14)
4508	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Electrical rating tests	IEC 62109-1 (Cl. 4.7)
4509	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Electrical rating tests	IS 16221(Part 1) (Cl. 4.7)
4510	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Environmental requirements and conditions	IEC 62109-1 (Cl. 6)
4511	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Environmental requirements and conditions	IS 16221(Part 1) (Cl.6)
4512	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Examples of protection, insulation & Overvoltage category requirements for PCE	IEC 62109-1 Cl. Annex I
4513	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Examples of protection, insulation & Overvoltage category requirements for PCE	IS 16221(Part 1) Cl. Annex I
4514	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	General Testing Requirements	IEC 62109-1 Clause 4

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	401 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4515	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	General Testing Requirements	IS 16221(Part 1) Clause 4
4516	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Humidity preconditioning	IEC 62109-1 (Cl. 4.5)
4517	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Humidity preconditioning	IS 16221(Part 1) (Cl.4.5)
4518	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Marking and documentation	IEC 62109-1 (Cl. 5)
4519	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Marking and documentation	IS 16221(Part 1) (Cl.5)
4520	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Maximum temperatures	IEC 62109-1 (Cl. 4.3)
4521	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Maximum temperatures	IS 16221(Part 1) (Cl.4.3)
4522	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Measurement of clearances and creepage distances	IEC 62109-1 (Cl. Annex A)
4523	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Measurement of clearances and creepage distances	IS 16221(Part 1) (Cl. Annex A)
4524	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Physical requirements	IEC 62109-1 (Cl.13)
4525	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Physical requirements	IS 16221(Part 1) (Cl.13)
4526	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Programmable equipment	IEC 62109-1 (Cl. Annex B)
4527	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Programmable equipment	IS 16221(Part 1) (Cl. Annex B)
4528	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Protection against electric shock and energy hazards	IEC 62109-1 (Cl. 7)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	402 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4529	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Protection against electric shock and energy hazards	IS 16221(Part 1) (Cl. 7)
4530	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Protection against Fire hazards	IEC 62109-1 (Cl. 9)
4531	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Protection against Fire hazards	IS 16221(Part 1) (Cl.9)
4532	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Protection against liquid hazards	IEC 62109-1 (Cl. 11)
4533	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Protection against liquid hazards	IS 16221(Part 1) (Cl.11)
4534	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Protection against mechanical hazards	IEC 62109-1 (Cl. 8)
4535	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Protection against mechanical hazards	IS 16221(Part 1) (Cl. 8)
4536	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Protection against sonic pressure hazards	IEC 62109-1 (Cl.10)
4537	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Protection against sonic pressure hazards	IS 16221(Part 1) (Cl.10)
4538	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	RCD'S	IEC 62109-1 Cl. Annex E
4539	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	RCD'S	IS 16221(Part 1) Cl. Annex E
4540	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Software and firmware performing safety functions	IEC 62109-1 (Cl. 15)
4541	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Software and firmware performing safety functions	IS 16221(Part 1) (Cl. 15)
4542	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Symbols to be used in equipment markings	IS 16221(Part 1) (Cl. Annex C)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	403 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4543	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Test probes for determining access	IEC 62109-1 (Cl. Annex D)
4544	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Test probes for determining access	IS 16221(Part 1) (Cl. Annex D)
4545	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Testing in single fault condition	IEC 62109-1 (Cl.4.4)
4546	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Testing in single fault condition	IS 16221(Part 1) (Cl.4.4)
4547	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Ultraviolet light conditioning test	IEC 62109-1 Cl. Annex J
4548	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Ultraviolet light conditioning test	IS 16221(Part 1) Cl. Annex J
4549	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part :1 General Requirements	Symbols to be used in equipment markings	IEC 62109-1 (Cl. Annex C)
4550	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	30 mA touch current type test for isolated inverters	IEC 62109-2 (Cl. 4.8.3.2)
4551	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	30 mA touch current type test for isolated inverters	IS 16221: (Part 2) (Cl. 4.8.3.2)
4552	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Additional tests for grid interactive inverters	IEC 62109-2 (Cl. 4.8)
4553	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Additional tests for grid interactive inverters	IS 16221: (Part 2) (Cl. 4.8)
4554	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Array insulation resistance detection for inverters for grounded arrays	IEC 62109-2 (Cl. 4.8.2.2)
4555	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Array insulation resistance detection for inverters for grounded arrays	IS 16221: (Part 2) (Cl. 4.8.2.2)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	404 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4556	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Array insulation resistance detection for inverters for ungrounded and functionally grounded arrays	IEC 62109-2 (Cl. 4.8.2)
4557	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Array insulation resistance detection for inverters for ungrounded and functionally grounded arrays	IS 16221: (Part 2) (Cl. 4.8.2)
4558	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Array insulation resistance detection for inverters for ungrounded arrays	IEC 62109-2 (Cl. 4.8.2.1)
4559	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Array insulation resistance detection for inverters for ungrounded arrays	IS 16221: (Part 2) (Cl. 4.8.2.1)
4560	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Array Residual current detection	IEC 62109-2 (Cl. 4.8.3)
4561	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Array Residual current detection	IS 16221: (Part 2) (Cl. 4.8.3)
4562	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Automatic checking of the disconnect means	IEC 62109-2 (Cl. 4.4.4.15.2.3)
4563	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Automatic checking of the disconnect means	IS 16221: (Part 2) (Cl. 4.4.4.15.2.3)
4564	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Components	IEC 62109-2 (Cl. 14)
4565	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Components	IS 16221: (Part 2) (Cl. 14)
4566	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Cooling system failure - Blanketing test	IEC 62109-2 (Cl. 4.4.4.17)
4567	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Cooling system failure - Blanketing test	IS 16221: (Part 2) (Cl. 4.4.4.17)
4568	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Design of insulation or separation	IEC 62109-2 (Cl. 4.4.4.15.2.2)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	405 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4569	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Design of insulation or separation	IS 16221: (Part 2) (Cl. 4.4.4.15.2.2)
4570	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Electrical ratings	IEC 62109-2 (Cl. 4.7)
4571	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Electrical ratings	IS 16221: (Part 2) (Cl. 4.7)
4572	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Environmental requirements and conditions	IEC 62109-2 (Cl. 6)
4573	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Environmental requirements and conditions	IS 16221: (Part 2) (Cl. 6)
4574	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Fault tolerance of automatic disconnecting means	IEC 62109-2 (Cl. 4.4.4.15.2)
4575	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Fault tolerance of automatic disconnecting means	IS 16221: (Part 2) (Cl. 4.4.4.15.2)
4576	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Fault tolerance of residual current monitoring	IEC 62109-2 (Cl. 4.4.4.15.1)
4577	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Fault tolerance of residual current monitoring	IS 16221: (Part 2) (Cl. 4.4.4.15.1)
4578	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Fault-tolerance of protection for grid-interactive inverters	IEC 62109-2
4579	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Fault-tolerance of protection for grid-interactive inverters	IS 16221: (Part 2)
4580	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Fire hazard residual current type test for	IEC 62109-2 (Cl. 4.8.3.3)
4581	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Fire hazard residual current type test for	IS 16221: (Part 2) (Cl. 4.8.3.3)
4582	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	General	IS 16221: (Part 2) (Cl. 4.7.5.3.1)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	406 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4583	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	General	IS 16221: (Part 2) (Cl. 4.8.3.5.1)
4584	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	General requirements regarding inverter isolation and array grounding	IEC 62109-2 (Cl. 4.8.1)
4585	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	General requirements regarding inverter isolation and array grounding	IS 16221: (Part 2) (Cl. 4.8.1)
4586	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Load step response of the output voltage at nominal DC input	IEC 62109-2
4587	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Load step response of the output voltage at nominal DC input	IS 16221: (Part 2)
4588	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Marking and documentation	IEC 62109-2 (Cl. 5)
4589	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Marking and documentation	IS 16221: (Part 2) (Cl. 5)
4590	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Measurement for AC output ports	IEC 62109-2 (Cl. 4.7.3)
4591	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Measurement for AC output ports	IS 16221: (Part 2) (Cl. 4.7.3)
4592	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Non-sinusoidal output wave form requirements	IEC 62109-2 (Cl. 4.7.5.3)
4593	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Non-sinusoidal output wave form requirements	IS 16221: (Part 2) (Cl. 4.7.5.3)
4594	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Output voltage waveform requirements for inverters for dedicated loads	IEC 62109-2 (Cl. 4.7.5.4)
4595	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Output voltage waveform requirements for inverters for dedicated loads	IEC 62109-2 (Cl. 4.7.5.5)
4596	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Output voltage waveform requirements for inverters for dedicated loads	IS 16221: (Part 2) (Cl. 4.7.5.4)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	407 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4597	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Output voltage waveform requirements for inverters for dedicated loads	IS 16221: (Part 2) (Cl. 4.7.5.5)
4598	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Peak Voltage	IEC 62109-2 (Cl. 4.7.5.3.4)
4599	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Peak Voltage	IS 16221: (Part 2) (Cl. 4.7.5.3.4)
4600	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Physical requirements	IEC 62109-2 (Cl. 13 /13.9)
4601	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Physical requirements	IS 16221: (Part 2) (Cl. 13)
4602	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection against chemical hazards	IEC 62109-2 (Cl. 12)
4603	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection against chemical hazards	IS 16221: (Part 2) (Cl. 12)
4604	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection against electric shock and energy hazards	IEC 62109-2 (Cl. 7)
4605	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection against electric shock and energy hazards	IS 16221: (Part 2) (Cl. 7 /7.3 /7.3.10 /7.3.11)
4606	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection against fire hazards	IEC 62109-2 Cl. 9 /9.3 /9.3.4)
4607	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection against fire hazards	IS 16221: (Part 2) (Cl. 9)
4608	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection against liquid hazards	IEC 62109-2 (Cl. 11)
4609	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection against liquid hazards	IS 16221: (Part 2) (Cl. 11)
4610	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection against mechanical hazards	IEC 62109-2 (Cl. 8)

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 408 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4611	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection against mechanical hazards	IS 16221: (Part 2) (Cl. 8)
4612	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection against sonic pressure hazards	IEC 62109-2 (Cl. 10)
4613	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection against sonic pressure hazards	IS 16221: (Part 2) (Cl. 10)
4614	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection by application of RCD'S	IEC 62109-2 (Cl. 4.8.3.4)
4615	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection by application of RCD'S	IS 16221: (Part 2) (Cl. 4.8.3.4)
4616	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection by residual current monitoring	IEC 62109-2 (Cl. 4.8.3.5)
4617	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Protection by residual current monitoring	IS 16221: (Part 2) (Cl. 4.8.3.5)
4618	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Sinusoidal output voltage waveform requirements	IEC 62109-2 (Cl. 4.7.5.2)
4619	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Sinusoidal output voltage waveform requirements	IS 16221: (Part 2) (Cl. 4.7.5.2)
4620	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Stand-alone Inverter AC output voltage and frequency	IEC 62109-2 (Cl. 4.7.4)
4621	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Stand-alone Inverter AC output voltage and frequency	IS 16221: (Part 2) (Cl. 4.7.4)
4622	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Stand-alone inverter output voltage waveform	IEC 62109-2 Cl. 4.7.5.1)
4623	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Stand-alone inverter output voltage waveform	IS 16221: (Part 2) (Cl. 4.7.5.1)
4624	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Standalone inverters - Load transfer test	IEC 62109-2 (Cl. 4.4.4.16)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	409 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4625	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Standalone inverters - Load transfer test	IS 16221: (Part 2) (Cl. 4.4.4.16)
4626	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Steady state output frequency	IEC 62109-2
4627	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Steady state output frequency	IS 16221: (Part 2)
4628	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Steady state output voltage across the DC input range	IEC 62109-2
4629	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Steady state output voltage across the DC input range	IS 16221: (Part 2) (Cl. 4.7.4.3)
4630	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Steady state output voltage at nominal DC input	IEC 62109-2 (Cl. 4.7.4.2)
4631	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Steady state output voltage at nominal DC input	IS 16221: (Part 2) (Cl. 4.7.4.2)
4632	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Systems located in closed electrical operating areas	IEC 62109-2 (Cl. 4.8.3.6)
4633	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Systems located in closed electrical operating areas	IS 16221: (Part 2) (Cl. 4.8.3.6)
4634	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Test for detection of excessive continuous residual current	IEC 62109-2 (Cl. 4.8.3.5.2)
4635	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Test for detection of excessive continuous residual current	IS 16221: (Part 2) (Cl. 4.8.3.5.2)
4636	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Test for detection of sudden changes in residual current	IEC 62109-2 (Cl. 4.8.3.5.3)
4637	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Test for detection of sudden changes in residual current	IS 16221: (Part 2) (Cl. 4.8.3.5.3)
4638	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Total Harmonic Distortion	IEC 62109-2 (Cl. 4.7.5.3.2)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	410 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4639	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Total Harmonic Distortion	IS 16221: (Part 2) (Cl. 4.7.5.3.2)
4640	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Waveform slope	IEC 62109-2 (Cl. 4.7.5.3.3)
4641	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of Power Converters for use in Photovoltaic Power Systems Part 2: Particular requirements for Inverters	Waveform slope	IS 16221: (Part 2) (Cl. 4.7.5.3.3)
4642	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of power transformer, power supplies, reactors and similar products	Clearance, creepage distances (26.1)	EN 61558-1(2005)+a1
4643	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of power transformer, power supplies, reactors and similar products	Clearance, creepage distances (26.1)	EN/IEC 61558-2-6:
4644	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of power transformer, power supplies, reactors and similar products	Dielectric strength (26.1)	EN 61558-1(2005)+a1
4645	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of power transformer, power supplies, reactors and similar products	Dielectric strength (26.1)	EN/IEC 61558-2-6:
4646	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of power transformer, power supplies, reactors and similar products	Insulation Resistance (18.2)	EN 61558-1(2005)+a1
4647	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of power transformer, power supplies, reactors and similar products	Insulation Resistance (18.2)	IEC 61558-2-6:
4648	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of power transformer, power supplies, reactors and similar products	Marking (8.15)	EN 61558-1(2005)+a1
4649	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety of power transformer, power supplies, reactors and similar products	Marking (8.15)	EN/IEC 61558-2-6:
4650	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Ball Impact Test (Clause.8.2.2)	EN 61010-2-081
4651	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Ball Impact Test (Clause.8.2.2)	IEC 61010-2-081

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	411 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4652	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Bonding impedance (Clause 6.5.2.4)	EN 61010-2-081
4653	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Bonding impedance (Clause 6.5.2.4)	IEC 61010-2-081
4654	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Capacitor Discharge Test (Clause.6.10.3)	EN 61010-2-081
4655	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Capacitor Discharge Test (Clause.6.10.3)	IEC 61010-2-081
4656	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Cord anchorage (Clause 6.10.2.2)	EN 61010-2-081
4657	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Cord anchorage (Clause 6.10.2.2)	IEC 61010-2-081
4658	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Creepage distances, clearances and distances through insulation (Clause.6.7)	EN 61010-2-081
4659	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Creepage distances, clearances and distances through insulation (Clause.6.7)	IEC 61010-2-081
4660	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Dielectric strength (Clause.6.8)	EN 61010-2-081
4661	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Dielectric strength (Clause.6.8)	IEC 61010-2-081
4662	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Durability of Markings (Clause 5.3)	EN 61010-2-081

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	412 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4663	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Durability of Markings (Clause 5.3)	IEC 61010-2-081
4664	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Heating (Maximum Temperature) (Clause 10)	EN 61010-2-081
4665	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Heating (Maximum Temperature) (Clause 10)	IEC 61010-2-081
4666	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Humidity Preconditioning test (Clause.6.8.2)	EN 61010-2-081
4667	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Humidity Preconditioning test (Clause.6.8.2)	IEC 61010-2-081
4668	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Mains Supply (Clause 5.1.3)	EN 61010-2-081
4669	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Mains Supply (Clause 5.1.3)	IEC 61010-2-081
4670	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Protection against electric shock (Clause 6)	EN 61010-2-081
4671	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Protection against electric shock (Clause 6)	IEC 61010-2-081
4672	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Resistance to heat (Clause.10.5)	EN 61010-2-081
4673	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Resistance to heat (Clause.10.5)	IEC 61010-2-081

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 413 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4674	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Resistance to Heat Mould Stress Test (Clause.10..5.2)	IEC 61010-2-081
4675	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Resistance to Heat Mould Stress Test (Clause.10.5.2)	EN 61010-2-081
4676	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Resistance to mechanical stress (Dynamic, Drop,Static Test) (Clause.8)	EN 61010-2-081
4677	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Resistance to mechanical stress (Dynamic, Drop,Static Test) (Clause.8)	IEC 61010-2-081
4678	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Bonding impedance of permanently connected equipment (Clause 6.5.2.5)	EN 61010-2-101: 2017 IEC 61010-2-101
4679	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Ball pressure test (Clause.10.5.3 1))	EN 61010-2-101: 2017 IEC 61010-2-101
4680	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Batteries and battery charging (Clause 13.2.2)	EN 61010-2-101: 2017 IEC 61010-2-101
4681	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Cleaning (Clause 11.2)	EN 61010-2-101: 2017 IEC 61010-2-101
4682	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Connection to external circuits (Clause 6.6.1)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4683	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Cord entry test (Clause 6.10.2.1)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4684	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Current or voltage limiting devices (Clause 6.5.6)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 414 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4685	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Determination of accessible parts (Clause. 6.2, Annex B)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4686	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Distance between terminal and foil (Clause 6.8.1)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4687	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Drop test (Clause 8.3)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4688	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Gap limitations between moving parts (Clause 7.3.5)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4689	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Insulation requirements not covered by 6.7 (Clause Annex K)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4690	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Limitation of force and pressure (Clause 7.3.4)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4691	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Mains transformers tested outside equipment (Clause 14.6)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4692	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Measuring circuits for touch current (Clause Annex A)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4693	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Motors (Clause 14.2)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4694	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Overflow (Clause 11.4)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4695	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Overtemperature protection device (Clause 14.3)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	415 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4696	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Protection against spread of fire (Clause 9)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4697	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Protective impedance (Clause 6.5.4)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4698	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Reliability (Interlocks) (Clause 15.3)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4699	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Resistance method temperature test (Clause 10.2)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4700	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Sound level measurement (Clause 12.5.1)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4701	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Spillage (Clause 11.3)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4702	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Stability (Clause 7.4)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4703	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Static test (Clause 8.2.1)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4704	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Strength of handles (Clause 7.5)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4705	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Terminals for external circuit (Clause 6.6.2)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4706	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Testing in single fault condition (Clause. 4.4)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	416 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4707	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Tightening torque test (Clause 6.5.2.3)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4708	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Transformer protective bonding screen (Clause 6.5.2.6)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4709	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Transient over voltage (Clause 14.8)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4710	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Values in normal condition (Clause 6.3.1)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4711	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Values in single fault condition (Clause 6.3.2)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4712	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Wall mount test (Clause 7.6)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018
4713	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Ball Impact Test (Clause.8.2.2)	EN 61010-2-101
4714	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Ball Impact Test (Clause.8.2.2)	IEC 61010-2-101
4715	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Capacitor Discharge Test (Clause.6.10.3)	IEC 61010-2-101
4716	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Dielectric strength (Clause.6.8)	EN 61010-2-101
4717	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Dielectric strength (Clause.6.8)	IEC 61010-2-101

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	417 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4718	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Mains Supply (Clause 5.1.3)	EN 61010-2-101
4719	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Mains Supply (Clause 5.1.3)	IEC 61010-2-101
4720	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Protection against electric shock (Clause 6)	EN 61010-2-101
4721	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Protection against electric shock (Clause 6)	IEC 61010-2-101
4722	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Resistance to heat (Clause.10.5)	EN 61010-2-101
4723	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Resistance to heat (Clause.10.5)	IEC 61010-2-101
4724	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Resistance to Heat Mould Stress Test (Clause.10)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018: 2018
4725	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Resistance to Heat Mould Stress Test (Clause.10)	IEC 61010-2-101
4726	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment	Resistance to mechanical stress (Dynamic, Drop,Static Test) (Clause.8)	EN 61010-2-101: 2017 IEC 61010-2-101: 2018: 2018
4727	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Ball pressure test (Clause.10.5.3 1)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4728	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Batteries and battery charging (Clause 13.2.2)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	418 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4729	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Bonding impedance of permanently connected equipment (Clause 6.5.2.5)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4730	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Cleaning (Clause 11.2)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4731	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Connection to external circuits (Clause 6.6.1)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4732	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Cord entry test (Clause 6.10.2.1)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4733	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Current or voltage limiting devices (Clause 6.5.6)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4734	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Determination of accessible parts (Clause. 6.2, Annex B)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4735	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Distance between terminal and foil (Clause 6.8.1)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4736	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Drop test (Clause 8.3)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4737	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Gap limitations between moving parts (Clause 7.3.5)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4738	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Insulation requirements not covered by 6.7 (Clause Annex K)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4739	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Limitation of force and pressure (Clause 7.3.4)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4740	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Mains transformers tested outside equipment (Clause 14.6)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4741	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Measuring circuits for touch current (Clause Annex A)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4742	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Motors (Clause 14.2)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5688	**Page No**	419 of 514
Validity	24/04/2022 to 23/04/2024	**Last Amended on**	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4743	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Overflow (Clause 11.4)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4744	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Overtemperature protection device (Clause 14.3)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4745	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Protection against spread of fire (Clause 9)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4746	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Protective impedance (Clause 6.5.4)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4747	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Reliability (Interlocks) (Clause 15.3)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4748	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Resistance method temperature test (Clause 10.2)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4749	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Resistance to mechanical stress (Clause.8)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4750	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Sound level measurement (Clause 12.5.1)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4751	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Spillage (Clause 11.3)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4752	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Stability (Clause 7.4)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4753	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Static test (Clause 8.2.1)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4754	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Strength of handles (Clause 7.5)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4755	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Terminals for external circuit (Clause 6.6.2)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4756	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Testing in single fault condition (Clause. 4.4)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	420 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4757	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Tightening torque test (Clause 6.5.2.3)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4758	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Transformer protective bonding screen (Clause 6.5.2.6)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4759	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Transient over voltage (Clause 14.8)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4760	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Values in normal condition (Clause 6.3.1)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4761	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Values in single fault condition (Clause 6.3.2)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4762	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Wall mount test (Clause 7.6)	IEC 61010-1:2010/A1: 2016 EN 61010-1:2010/A1
4763	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Ball Impact Test (Dynamic test)	(Clause.8.2.2) EN 61010-2-081: 2015 IEC 61010-2-081:2019
4764	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Bonding impedance (Clause 6.5.2.4)	EN 61010-1:2010/A1
4765	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Capacitor Discharge Test (Clause.6.10.3)	IEC 61010-1:2010/A1
4766	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Cord anchorage (Clause 6.10.2.2)	EN 61010-1:2010/A1
4767	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Cord anchorage (Clause 6.10.2.2)	IEC 61010-1:2010/A1
4768	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Creepage distances, clearances and distances through insulation (Clause.6.7)	EN 61010-1:2010/A1
4769	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Creepage distances, clearances and distances through insulation (Clause.6.7)	IEC 61010-1:2010/A1
4770	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Durability of Markings (Clause 5.3)	EN 61010-1:2010/A1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	421 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4771	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Durability of Markings (Clause 5.3)	IEC 61010-1:2010/A1
4772	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Heating (Maximum Temperature) (Clause 10)	EN 61010-1:2010/A1
4773	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Heating (Maximum Temperature) (Clause 10)	IEC 61010-1:2010/A1
4774	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Humidity Preconditioning test (Clause.6.8.2)	EN 61010-1:2010/A1
4775	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Humidity Preconditioning test (Clause.6.8.2)	IEC 61010-1:2010/A1
4776	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Mains Supply (Clause 5.1.3)	EN 61010-1:2010/A1
4777	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Mains Supply (Clause 5.1.3)	IEC 61010-1:2010/A1
4778	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Protection against electric shock (Clause 6)	EN 61010-1:2010/A1
4779	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Protection against electric shock (Clause 6)	IEC 61010-1:2010/A1
4780	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Resistance to heat (Clause.10.5)	EN 61010-1:2010/A1
4781	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Resistance to heat (Clause.10.5)	IEC 61010-1:2010/A1
4782	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Resistance to Heat Mould Stress Test (Clause.10)	EN 61010-1:2010/A1
4783	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Resistance to Heat Mould Stress Test (Clause.10)	IEC 61010-1:2010/A1
4784	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	Resistance to mechanical stress (Dynamic, Drop,Static Test) (Clause.8)	IEC 61010-1:2010/A1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 422 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4785	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Batteries and battery charging (Clause 13.2.2)	IEC 61010-2-030
4786	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Input mismatches (Clause 101.3)	IEC 61010-2-030
4787	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Testing in single fault condition (Clause. 4.4)	IEC 61010-2-030
4788	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Ball Impact Test (Dynamic test) (Clause.8.2.2)	IEC 61010-2-030
4789	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Ball pressure test (Clause.10.5.3 1))	IEC 61010-2-030
4790	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Bonding impedance of permanently connected equipment (Clause 6.5.2.5)	IEC 61010-2-030
4791	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Bonding impedance of plug connected equipment (Clause 6.5.2.4)	IEC 61010-2-030
4792	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Capacitor Discharge Test (Clause.6.10.3)	IEC 61010-2-030
4793	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Cleaning (Clause 11.2)	IEC 61010-2-030
4794	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Connection to external circuits (Clause 6.6.1)	IEC 61010-2-030
4795	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Cord anchorage test (Clause 6.10.2.2)	IEC 61010-2-030

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5688	**Page No**	423 of 514
Validity	24/04/2022 to 23/04/2024	**Last Amended on**	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4796	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Cord entry test (Clause 6.10.2.1)	IEC 61010-2-030
4797	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Creepage distances, clearances and distances through insulation (Clause.6.7)	IEC 61010-2-030
4798	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Current measuring circuits (Clause 101.2)	IEC 61010-2-030
4799	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Current or voltage limiting devices (Clause 6.5.6)	IEC 61010-2-030
4800	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Determination of accessible parts (Clause. 6.2, Annex B)	IEC 61010-2-030
4801	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Dielectric strength (Clause.6.8.3)	IEC 61010-2-030
4802	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Distance between terminal and foil (Clause 6.8.1)	IEC 61010-2-030
4803	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Drop test (Clause 8.3)	IEC 61010-2-030
4804	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Durability of Markings (Clause 5.3)	IEC 61010-2-030
4805	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Gap limitations between moving parts (Clause 7.3.5)	IEC 61010-2-030
4806	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Heating (Temperature test) (Clause 10)	IEC 61010-2-030

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	424 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4807	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Humidity Preconditioning test (Clause.6.8.2)	IEC 61010-2-030
4808	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Insulation requirements not covered by 6.7 (Clause Annex K)	IEC 61010-2-030
4809	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Limitation of force and pressure (Clause 7.3.4)	IEC 61010-2-030
4810	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Mains Supply (Clause 5.1.3c))	IEC 61010-2-030
4811	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Mains transformers tested outside equipment (Clause 14.6)	IEC 61010-2-030
4812	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Measuring circuits for touch current (Clause Annex A)	IEC 61010-2-030
4813	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Motors (Clause 14.2)	IEC 61010-2-030
4814	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Over Temperature protection device (Clause 14.3)	IEC 61010-2-030
4815	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Overflow (Clause 11.4)	IEC 61010-2-030
4816	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Protection against electric shock (Clause 6)	IEC 61010-2-030
4817	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Protection against spread of fire (Clause 9)	IEC 61010-2-030

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5688	**Page No**	425 of 514
Validity	24/04/2022 to 23/04/2024	**Last Amended on**	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4818	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Protective impedance (Clause 6.5.4)	IEC 61010-2-030
4819	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Reliability (Interlocks) (Clause 15.3)	IEC 61010-2-030
4820	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Resistance method temperature test (Clause 10.2)	IEC 61010-2-030
4821	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Resistance to heat (Clause.10.5)	IEC 61010-2-030
4822	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Resistance to heat (Mould stress relief test) (Clause.10.5.2)	IEC 61010-2-030
4823	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Resistance to mechanical stress(Clause.8)	IEC 61010-2-030
4824	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Sound level measurement (Clause 12.5.1)	IEC 61010-2-030
4825	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Spillage (Clause 11.3)	IEC 61010-2-030
4826	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Stability (Clause 7.4)	IEC 61010-2-030
4827	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Static test (Clause 8.2.1)	IEC 61010-2-030
4828	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Strength of handles (Clause 7.5)	IEC 61010-2-030

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	426 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4829	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Terminals for external circuit (Clause 6.6.2)	IEC 61010-2-030
4830	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Tightening torque test (Clause 6.5.2.3)	IEC 61010-2-030
4831	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Transformer protective bonding screen (Clause 6.5.2.6)	IEC 61010-2-030
4832	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Transient over voltage (Clause 14.8)	IEC 61010-2-030
4833	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Transient overvoltage (Clause 14.101)	IEC 61010-2-030
4834	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Wall mount test (Clause 7.6)	IEC 61010-2-030
4835	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Over-range indication	IEC 61010-2-030:2017
4836	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	Protection against mains overvoltages	IEC 61010-2-030:2017
4837	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Ball pressure test (Clause.10.5.3 1))	EN 61010-2-081: 2015 IEC 61010-2-081
4838	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Batteries and battery charging (Clause 13.2.2)	EN 61010-2-081: 2015 IEC 61010-2-081
4839	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Bonding impedance of permanently connected equipment (Clause 6.5.2.5)	EN 61010-2-081: 2015 IEC 61010-2-081

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5688	**Page No**	427 of 514
Validity	24/04/2022 to 23/04/2024	**Last Amended on**	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4840	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Bonding impedance of plug connected equipment (Clause 6.5.2.4)	EN 61010-2-081: 2015 IEC 61010-2-081
4841	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Capacitor Discharge Test (Clause.6.10.3)	EN 61010-2-081: 2015 IEC 61010-2-081
4842	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Cleaning (Clause 11.2)	EN 61010-2-081: 2015 IEC 61010-2-081
4843	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Connection to external circuits (Clause 6.6.1)	EN 61010-2-081: 2015 IEC 61010-2-081
4844	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Cord anchorage test (Clause 6.10.2.2)	EN 61010-2-081: 2015 IEC 61010-2-081
4845	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Cord entry test (Clause 6.10.2.1)	EN 61010-2-081: 2015 IEC 61010-2-081
4846	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Creepage distances, clearances and distances through insulation (Clause.6.7)	IEC 61010-2-081: 2015 EN 61010-2-081: 2015 IEC 61010-2-081
4847	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Current or voltage limiting devices (Clause 6.5.6)	EN 61010-2-081: 2015 IEC 61010-2-081
4848	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Determination of accessible parts (Clause. 6.2, Annex B)	EN 61010-2-081: 2015 IEC 61010-2-081
4849	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Dielectric strength (Clause.6.8.3)	EN 61010-2-081: 2015 IEC 61010-2-081
4850	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Distance between terminal and foil (Clause 6.8.1)	EN 61010-2-081: 2015 IEC 61010-2-081

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	428 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4851	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Drop test (Clause 8.3)	EN 61010-2-081: 2015 IEC 61010-2-081
4852	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Drop test (Clause 8.3)	EN 61010-2-081: 2015 IEC 61010-2-081
4853	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Durability of Markings (Clause 5.3)	EN 61010-2-081: 2015 IEC 61010-2-081
4854	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Heating (Temperature Test) (Clause 10)	EN 61010-2-081: 2015 IEC 61010-2-081
4855	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Humidity Preconditioning test (Clause.6.8.2)	EN 61010-2-081: 2015 IEC 61010-2-081
4856	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Insulation requirements not covered by 6.7 (Clause Annex K)	EN 61010-2-081: 2015 IEC 61010-2-081
4857	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Limitation of force and pressure (Clause 7.3.4)	EN 61010-2-081: 2015 IEC 61010-2-081
4858	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Mains transformers tested outside equipment (Clause 14.6)	EN 61010-2-081: 2015 IEC 61010-2-081
4859	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Measuring circuits for touch current (Clause Annex A)	EN 61010-2-081: 2015 IEC 61010-2-081
4860	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Motors (Clause 14.2)	EN 61010-2-081: 2015 IEC 61010-2-081
4861	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Overflow (Clause 11.4)	EN 61010-2-081: 2015 IEC 61010-2-081

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	429 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4862	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Overtemperature protection device (Clause 14.3)	EN 61010-2-081: 2015 IEC 61010-2-081
4863	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Protection against spread of fire (Clause 9)	EN 61010-2-081: 2015 IEC 61010-2-081
4864	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Protective impedance (Clause 6.5.4)	EN 61010-2-081: 2015 IEC 61010-2-081
4865	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Reliability (Interlocks) (Clause 15.3)	EN 61010-2-081: 2015 IEC 61010-2-081
4866	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Resistance method temperature test (Clause 10.2)	EN 61010-2-081: 2015 IEC 61010-2-081
4867	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Terminals for external circuit (Clause 6.6.2)	EN 61010-2-081: 2015 IEC 61010-2-081
4868	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Tightening torque test (Clause 6.5.2.3)	EN 61010-2-081: 2015 IEC 61010-2-081
4869	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Transformer protective bonding screen (Clause 6.5.2.6)	EN 61010-2-081: 2015 IEC 61010-2-081
4870	ELECTRONICS-MISCELLANEOUS PRODUCTS	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	Transient over voltage (Clause 14.8)	EN 61010-2-081: 2015 IEC 61010-2-081
4871	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility-Interconnected Photovoltaic Inverters - Test Procedures of Islanding Prevention	Test for single or multi-phase Inverter - Pass/Fail criteria	IS 16169:2014 / IEC 62116:2008 (Cl. 6.2) IS 16169:2019 / IEC 62116:2014 (Cl. 6.2) IEC 62116:2014 / EN 62116:2014 (Cl. 6.2)

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 430 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4872	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility-Interconnected Photovoltaic Inverters - Test Procedures of Islanding Prevention	Test for single or multi-phase Inverter - Test Procedure / Test Method -Islanding as it applies to PV System	IS 16169:2014 / IEC 62116:2008 (Cl. 6 to 6.1, Annex A, Annex B - B.4) IS 16169:2019 / IEC 62116:2014 (Cl. 6 to 6.1,Annex A, Annex B - B.4) IEC 62116:2014 / EN 62116:2014 (Cl. 6 to 6.1, Annex A, Annex B - B.4)
4873	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility-Interconnected Photovoltaic Inverters / Photovoltaic (PV) systems — Characteristics of the utility interface	DC injection	IEC 61727:2004 (Cl.4.4)
4874	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility-Interconnected Photovoltaic Inverters / Photovoltaic (PV) systems — Characteristics of the utility interface	Direct-current isolation	EN 61727:1996 / IEC 61727:1995 (Cl 5.4)
4875	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility-Interconnected Photovoltaic Inverters / Photovoltaic (PV) systems — Characteristics of the utility interface	Harmonics	EN 61727:1996 / IEC 61727:1995 (Cl 4.4)
4876	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility-Interconnected Photovoltaic Inverters / Photovoltaic (PV) systems — Characteristics of the utility interface	Harmonics and waveform distortion	IEC 61727:2004 (Clause 4.6)
4877	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility-Interconnected Photovoltaic Inverters / Photovoltaic (PV) systems — Characteristics of the utility interface	Islanding protection	IEC 61727:2004 (Cl 5.3)
4878	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility-Interconnected Photovoltaic Inverters / Photovoltaic (PV) systems — Characteristics of the utility interface	Over/under frequency	IEC 61727:2004 (Cl. 5.2.2), BS EN 61727:1996/IEC 61727:1995 (Cl. 5.2.2)
4879	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility-Interconnected Photovoltaic Inverters / Photovoltaic (PV) systems — Characteristics of the utility interface	Over/under voltage	IEC 61727:2004 (Cl. 5.2.1), BS EN 61727:1996/IEC 61727:1995 (Cl. 5.2.1)
4880	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility-Interconnected Photovoltaic Inverters / Photovoltaic (PV) systems — Characteristics of the utility interface	Power factor	IEC 61727:2004 (Cl. 4.7), BS EN 61727:1996/IEC 61727:1995 (Cl. 4.5)
4881	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility-Interconnected Photovoltaic Inverters / Photovoltaic (PV) systems — Characteristics of the utility interface	Response to utility recovery	IEC 61727:2004 (Cl. 5.4)
4882	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility-Interconnected Photovoltaic Inverters / Photovoltaic (PV) systems — Characteristics of the utility interface	Service voltage, current and power	BS EN 61727:1996/IEC 61727:1995 (Cl. 4.1)
4883	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility-Interconnected Photovoltaic Inverters / Photovoltaic (PV) systems — Characteristics of the utility interface	Utility recovery	BS EN 61727:1996/IEC 61727:1995 (Cl. 5.3)

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 431 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4884	ELECTRONICS- MISCELLANEOUS PRODUCTS	Utility-Interconnected Photovoltaic Inverters / Photovoltaic (PV) systems — Characteristics of the utility interface	Voltage, current and frequency	IEC 61727:2004 (Cl 4.1)
4885	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Temperature Rise (Maximum Temperature)	(Clause. 7.7) EN 62040-1 : 2008 IS 16242 (Part 1) : 2014 IEC 62040-1
4886	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	a.c. or d.c. voltage test	(Clause. 5.2.3.4) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4887	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Abnormal operation test	(Clause. 5.2.4) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4888	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Capacitor discharge test	(Clause. 5.2.3.8) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4889	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Clearance and Creepage Distance test	(Clause. 5.2.2.1) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4890	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Dry & Damp Heat Test	(Clause. 5.2.6.3.1, 5.2.6.3.2) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4891	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Enclosure integrity Test	(Clause. 5.2.2.4) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4892	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Handles and manual control securement test	(Clause. 5.2.2.7) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4893	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Impulse voltage test	(Clause. 5.2.3.2) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4894	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Ingress protection test (IP rating)	(Clause. 5.2.2.3) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4895	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Limited power source test	(Clause. 5.2.3.9) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4896	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Non accessibility test	(Clause. 5.2.2.2) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4897	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Protective equipotential bonding test	(Clause. 5.2.3.11) IEC 62477(Part 1): 2012, EN 62477(Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 432 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4898	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Protective Impedance test	(Clause. 5.2.3.6) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4899	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Salt mist test	(Clause. 5.2.6.5) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4900	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Stability Test	(Clause. 5.2.2.5) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4901	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Temperature rise test	(Clause. 5.2.3.10) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4902	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Touch current measurements test	(Clause. 5.2.3.7) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4903	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Power Converter systems & Equipment	Wall or Ceiling mounted equipment test	(Clause.5.2.2.6) IEC 62477(Part 1): 2012, EN 62477(Part 1)
4904	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Abnormal operation and simulated faults tests	(Clause. 5.2.4.4) IEC 62040(Part 1): 2017+ AMD1
4905	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Backfeed protection test	(Clause. 5.2.3.101) IEC 62040(Part 1): 2017+ AMD1
4906	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Capacitor discharge	(Clause. 5.2.3.8) IEC 62040(Part 1): 2017+ AMD1
4907	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Drop test	(Clause. 5.2.2.4.4) IEC 62040(Part 1): 2017+ AMD1
4908	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Information and marking requirements Durability	(Clause. 6.1.101) IEC 62040(Part 1): 2017+ AMD1
4909	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Input current	(Clause. 5.2.3.102) IEC 62040(Part 1): 2017+ AMD1:2021
4910	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Limited power source, test including energy hazards test	(Clause. 5.2.3.9) IEC 62040(Part 1): 2017+ AMD1
4911	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Non accessibility test	(Clause. 5.2.2.2) IEC 62040(Part 1): 2017+ AMD1
4912	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Salt mist test	(Clause. 5.2.6.5) IEC 62040(Part 1): 2017+ AMD1
4913	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Temperature rise test	(Clause. 5.2.3.10) IEC 62040(Part 1): 2017+ AMD1
4914	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Transformer protection test	(Clause. 5.2.3.104) IEC 62040(Part 1): 2017+ AMD1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 433 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4915	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Wall or Ceiling mounted equipment test	(Clause.5.2.2.6) IEC 62040(Part 1): 2017+ AMD1
4916	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Wiring test, Cord guard & strain relief	(Clause. 5.2.2.101) IEC 62040(Part 1): 2017+ AMD1
4917	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Abnormal operating and fault conditions	(Clause. 8.3.1 to 8.3.3):IEC 62040-1 : 2008, IS 16242 (Part 1): 2014, EN 62040-1
4918	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Backfeed Protections	(Clause No. 5.1.4/Annex I2/I3) IS 16242 (Part 1): 2014, EN62040-1: 2008, IEC 62040-1
4919	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Case insulation	(Clause. 4.102.4) IEC 62040(Part 1): 2017+ AMD1
4920	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Clearances, Creepage distance and distance through Insulation	(Clause.5.7) IEC 62040-1:2008, IS 16242 (Part 1) : 2014, EN 62040-1
4921	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Connections to telecommunication network	(Clause. 9) IS 16242 (Part 1):2014, IEC 62040-1: 2008, EN 62040-1
4922	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Construction details (Ball pressure test)	(Clause.7.4) IS 16242 (Part 1):2014, EN 62040-1: 2008, IEC 62040-1
4923	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Durability of marking	(Clause. 4.7.16) IEC 62040-1: 2008, EN 62040-1: 2008, IS 16242 (Part 1)
4924	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Electric strength	(Clause.8.2) IS 16242 (Part 1): 2014, IEC 62040-1: 2008, EN 62040-1
4925	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	General Provisions for connection to power (Cord anchorage and strain relief)	(Clause.6.2.1) EN 62040-1: 2008, IS 16242 (Part 1): 2014, IEC 62040-1
4926	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	General provisions for Earth leakage (Leakage current)	(Clause. 8.1) EN 62040-1: 2008, IEC 62040-1: 2008, IS 16242 (Part 1)
4927	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Guidance on protection against ingress of water and foreign objects	(Annex H) EN 62040-1: : 2008, IS 16242 (Part 1): : 2014, IEC 62040-1
4928	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Limited current circuits	(Clause No. 5.2.3) IEC 62040-1: 2008, EN 62040-1: : 2008, IS 16242 (Part 1)

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 434 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4929	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Limited power sources	(Clause No. 5.2.5) IS 16242 (Part 1): : 2014, EN 62040-1: : 2008, IEC 62040-1
4930	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Mechanical strength	(Clause. 7.3) IEC 62040-1: : 2008, EN 62040-1: : 2008, IS 16242 (Part 1)
4931	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Motor tests under abnormal conditions	(Annex B) IS 16242 (Part 1):: 2014, EN 62040-1:2008 , IEC 62040-1
4932	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Over current and earth fault protection	(Clauses. 5.5.1/5.5.2) IS 16242 (Part 1): : 2014, IEC 62040-1: : 2008, EN 62040-1
4933	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Power interfaces (Power input and current) (Clause. 4.4)	IS 16242 (Part 1)
4934	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Power interfaces	(Clause. 4.6) IS 16242 (Part 1): 2014, IEC 62040-1: 2008, EN 62040-1
4935	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Protection for UPS intended to be used in operator access areas (Capacitor discharge)	(Clause.5.1) IEC 62040-1: 2008, IS 16242 (Part 1): 2014, EN 62040-1
4936	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Protection for UPS intended to be used in operator access areas(Access to energized part)	(Clause. 5.1.1) EN 62040-1: 2008, IS 16242 (Part 1) : 2014, IEC 62040-1
4937	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Protection for UPS intended to be used in restricted access areas:	(Clause No. 5.1.3) IEC 62040-1: : 2008, IS 16242 (Part 1): : 2014, EN 62040-1
4938	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Protection for UPS intended to be used in service access areas:	(Clause No. 5.1.2) IEC 62040-1: : 2008, EN 62040-1: : 2008, IS 16242 (Part 1)
4939	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Protective Earthing and Bonding (Earth Bond test)	(Clause.5.3) IS 16242 (Part 1): 2014, IEC 62040-1: 2008, EN 62040-1
4940	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Resistance to fire	(Clause. 7.5) EN 62040-1: : 2008, IS 16242 (Part 1): : 2014, IEC 62040-1
4941	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Stability	(Clause. 7.2) IS 16242 (Part 1): : 2014, EN 62040-1: : 2008, IEC 62040-1
4942	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Telephone network voltage circuits - TNV circuits	(Clause. 5.2.2) IS 16242 (Part 1): : 2014, EN 62040-1: : 2008, IEC 62040-1

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	435 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
4943	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Transformers	(Annex C) IS 16242 (Part 1): : 2014, EN 62040-1: : 2008, IEC 62040-1
4944	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Ventilation	(Clause. 7.6.7/M.2) EN 62040-1: : 2008, IS 16242 (Part 1): : 2014, IEC 62040-1
4945	ELECTRONICS- POWER SUPPLIES & STABILIZERS	Uninterruptible Power Systems (UPS) and Inverter	Wiring terminals for external power conductors	(Clause. 6.3) IS 16242 (Part 1): : 2014, IEC 62040-1: : 2008, EN 62040-1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 436 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
LOCATION 2 - TUV RHEINLAND (INDIA) PVT. LTD. PV MODULE TESTING LABORATORY, GROUND FLOOR, NO. 27/B, 2ND CROSS ROAD,ELECTRONIC CITY PHASE-1, BANGALORE – 560 100, INDIA, BENGALURU, KARNATAKA, INDIA Permanent Facility				
1	ELECTRONICS-MISCELLANEOUS PRODUCTS	Grid-tied Inverters	Anti -Islanding Test Clause.5.7.1	IEEE 1547.1
2	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Dielectric strength (impulse)	IEC 62790: 2020 (Cl. 5.3.6a), EN IEC 62790: (Cl. 5.3.6a)
3	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Fixing of lid on rewirable junction box	IEC 62790: 2020 (Cl. 5.3.3), EN IEC 62790: (Cl. 5.3.3)
4	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Measurement of clearance and creepage distances	IEC 62790: 2020 (Cl. 5.3.5), EN IEC 62790: (Cl. 5.3.5)
5	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Measurement of contact resistance	IEC 62790: 2020 (Cl. 5.3.19), EN IEC 62790: (Cl. 5.3.19)
6	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Mechanical strength at lower temperature	IEC 62790: 2020 (Cl. 5.3.8), EN IEC 62790: (Cl. 5.3.8)
7	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Protection against electric shock	IEC 62790: 2020 (Cl. 5.3.4), EN IEC 62790: (Cl. 5.3.4)
8	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Resistance to corrosion	IEC 62790: 2020 (Cl. 5.3.7), EN IEC 62790: (Cl. 5.3.7)
9	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Retention of mounting surface	IEC 62790: 2020 (Cl. 5.3.22), EN IEC 62790: (Cl. 5.3.22)
10	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Test of cord anchorage	IEC 62790: 2020 (Cl. 5.3.21), EN IEC 62790: (Cl. 5.3.21)
11	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Bypass diode thermal test	IEC 62790: 2020 (Cl. 5.3.18), EN IEC 62790: (Cl. 5.3.18)
12	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Cold conditioning	IEC 62790: (Table B.1): 2020, EN IEC 62790: (Table B.1)
13	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Damp heat test	IEC 62790: 2020 (Cl. 5.3.10), EN IEC 62790: (Cl. 5.3.10)

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 437 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
14	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Dry heat	IEC 62790: (Table B.1): 2020, EN IEC 62790: (Table B.1)
15	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Durability of marking	IEC 62790: 2020 (Cl. 5.3.2), EN IEC 62790: (Cl. 5.3.2)
16	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Humidity freeze test	IEC 62790: 2020 (Cl. 5.3.17), EN IEC 62790: (Cl. 5.3.17)
17	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Resistance against ageing	IEC 62790: 2020 (Cl. 5.3.15), EN IEC 62790: (Cl. 5.3.15)
18	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Reverse current test at junction box	IEC 62790: 2020 (Cl. 5.3.23), EN IEC 62790: (Cl. 5.3.23)
19	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	RMS withstand voltage test	IEC 62790: 2020 (Cl. 5.3.6b), EN IEC 62790: (Cl. 5.3.6b)
20	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Thermal cycle test	IEC 62790: 2020 (Cl. 5.3.9), EN IEC 62790: (Cl. 5.3.9)
21	ELECTRONICS-MISCELLANEOUS PRODUCTS	Junction boxes for Photovoltaic (PV) modules	Wet leakage current test	IEC 62790: 2020 (Cl. 5.316), EN IEC 62790: (Cl. 5.3.16)
22	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) module	Power rating at HTC (High Temperature Condition)	IEC 61853-1: 2011 (Cl. 7.5), EN 61853-1: 2011 (Cl. 7.5), IS 16170 (Part 1): (Cl. 7.5)
23	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Cut susceptibility test	IEC 61730-2: 2016 (Cl. 10.10), IS/IEC 61730-2: 2016 (Cl.10.10), UL 61730-2: 2017 (Cl. 10.10), IS/IEC 61730-2: 2004+Amd 1: 2017 (Cl. 10.3), EN 61730-2: 2018 (Cl. 10.10), UL 61730-2: (Cl. 10.10)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	438 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
24	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Humidity freeze test	IEC 61215-2: 2016 (Cl. 4.12) (withdrawn), UL 61215-2: 2017 (Cl. 4.12), EN 61215-2: 2018 (Cl. 4.12), IS 14286: 2010 (Cl. 10.12), IEC 61730-2: 2016 (Cl. 10.29), IS/IEC 61730-2: 2016 (Cl.10.29), UL 61730-2: 2017 (Cl. 10.29), EN 61730-2: 2018 (Cl. 10.29), 2 PfG 2665/06.18: 2018 (Cl. 8.6), IS 14286 (Part 2): 2019 (Cl. 4.12), UL 61730-2: (Cl. 10.29): 2020, UL 61215-2: 2021 (Cl. 4.12), EN IEC 61215-2: 2021 (Cl. 4.12), IEC TS 63209-1: 2021 (Cl. 5.11), IEC 61215-2: (Cl. 4.12)
25	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Procedure for the measurement of incident angle effects	IEC 61853-2: 2016 (Cl. 7), EN 61853-2: (Cl. 7)
26	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Thermal cycling test	IEC 61215-2: 2016 (Cl. 4.11) (withdrawn), UL 61215-2: 2017 (Cl. 4.11), EN 61215-2: 2018 (Cl. 4.11), IS 14286: 2010 (Cl. 10.11), IEC 61730-2: 2016 (Cl. 10.28), IS/IEC 61730-2: 2016 (Cl.10.28), UL 61730-2: 2017 (Cl. 10.28), EN 61730-2: 2018 (Cl. 10.28), 2 PfG 2665/06.18: 2018 (Cl. 8.5), IS 14286 (Part 2): 2019 (Cl. 4.11), UL 61730-2: (Cl. 10.28): 2020, UL 61215-2: 2021 (Cl. 4.11), EN IEC 61215-2: 2021 (Cl. 4.11), IEC TS 63209-1: 2021 (Cl. 5.10), IEC 61215-2: (Cl. 4.11)
27	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Accessibility test	IEC 61730-2: 2016 (Cl. 10.9) (withdrawn), IS/IEC 61730-2: 2016 (Cl.10.9), UL 61730-2: 2017 (Cl. 10.9), IS/IEC 61730-2: 2004+Amd 1: 2017 (Cl. 10.2), EN 61730-2: 2018 (Cl. 10.9), UL 61730-2: (Cl. 10.9)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	439 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
28	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Bypass diode functionality test	IEC 61730-2: 2016 (Cl. 10.8), IS/IEC 61730-2: 2016 (Cl.10.8), UL 61730-2: 2017 (Cl. 10.8), EN 61730-2: 2018 (Cl. 10.8), IEC 61215-2: 2016 (Cl. 4.18.2) (withdrawn), UL 61215-2: 2017 (Cl. 4.18.2), EN 61215-2: 2018 (Cl. 4.18.2), IS/IEC 61701: 2011 (Cl. 4.2), IEC 61701: 2011 (Cl. 4.2) (withdrawn), IS 14286 (Part 2): 2019 (Cl. 4.18.2), UL 61730-2: 2020 (Cl. 10.8), UL 61215-2: 2021 (Cl. 4.18.2), EN IEC 61215-2: 2021 (Cl. 4.18.2), IEC 61701: 2020 (Cl. 6.8.3), EN IEC 61701: 2020 (Cl. 6.8.3), IEC 61215-2
29	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Dielectric withstand test	IS/IEC 61730-2: 2004+Amd 1: (Cl. 10.6)
30	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Durability of markings	IEC 61730-2: 2016 (Cl. 10.6), IS/IEC 61730-2: 2016 (Cl.10.6), UL 61730-2: 2017 (Cl. 10.6), EN 61730-2: 2018 (Cl. 10.6), UL 61730-2: (Cl. 10.6)
31	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Fire test	IEC 61730-2: 2016 (Cl. 10.17), IS/IEC 61730-2: 2016 (Cl.10.17), UL 61730-2: 2017 (Cl. 10.17DV), EN 61730-2: 2018 (Cl. 10.17), ANSI/UL 790: 2018, IS/IEC 61730-2: 2004+Amd 1: 2017 (Cl. 10.8), UL 61730-2: (Cl. 10.17)
32	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Ground continuity Test/Continuity test of equipotential bonding	IEC 61730-2: 2016 (Cl. 10.11), IS/IEC 61730-2: 2016 (Cl.10.11), UL 61730-2: 2017 (Cl. 10.11), IS/IEC 61730-2: 2004+Amd 1: 2017 (Cl. 10.4), EN 61730-2: 2018 (Cl. 10.11), UL 61730-2: (Cl. 10.11)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	440 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
33	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Hail test	IEC 61215-2: 2016 (Cl. 4.17) (withdrawn), IS 14286 (Part 2): 2019 (Cl. 4.17), UL 61215-2: 2017 (Cl. 4.17), IS 14286: 2010 (Cl. 10.17), EN 61215-2: 2018 (Cl. 4.17), UL 61215-2: 2021 (Cl. 4.17), EN IEC 61215-2: 2021 (Cl. 4.17), IEC 61215-2: (Cl. 4.17)
34	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Hot-spot endurance test	IEC 61215-2: 2016 (Cl. 4.9) (withdrawn), UL 61215-2: 2017 (Cl. 4.9), EN 61215-2: 2018 (Cl. 4.9), IS 14286: 2010 (Cl. 10.9), IEC 61730-2: 2016 (Cl. 10.16), IS/IEC 61730-2: 2016 (Cl.10.16), UL 61730-2: 2017 (Cl. 10.16), EN 61730-2: 2018 (Cl. 10.16), 2 PfG 2665/06.18: 2018 (Cl. 8.3), IS 14286 (Part 2): 2019 (Cl. 4.9), UL 61730-2: (Cl. 10.16): 2020, UL 61215-2: 2021 (Cl. 4.9), EN IEC 61215-2: 2021 (Cl. 4.9), IEC 61215-2: (Cl. 4.9)
35	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Ignitability test	IEC 61730-2: 2016 (Cl. 10.18), IS/IEC 61730-2: 2016 (Cl.10.18), ISO 11925-2: 2010, EN 61730-2: (Cl. 10.18)
36	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Impulse voltage test	IEC 61730-2: 2016 (Cl. 10.12), IS/IEC 61730-2: 2016 (Cl.10.12), UL 61730-2: 2017 (Cl. 10.12), EN 61730-2: 2018 (Cl. 10.12), IS/IEC 61730-2: 2004+Amd 1: 2017 (Cl. 10.5), UL 61730-2: (Cl. 10.12)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	441 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
37	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Insulation test	IEC 61215-2: 2016 (Cl. 4.3) (withdrawn), UL 61215-2: 2017 (Cl. 4.3), EN 61215-2: 2018 (Cl. 4.3), IEC 61730-2: 2016 (Cl. 10.13), IS/IEC 61730-2: 2016 (Cl.10.13), UL 61730-2: 2017 (Cl. 10.13), EN 61730-2: 2018 (Cl. 10.13), IS 14286: 2010 (Cl. 10.3), IS 14286 (Part 2): 2019 (Cl. 4.3), UL 61730-2: (Cl. 10.13): 2020, UL 61215-2: 2021 (Cl. 4.3), EN IEC 61215-2: 2021 (Cl. 4.3), IEC TS 63209-1: 2021 (Cl. 5.6), IEC 61215-2: (Cl. 4.3)
38	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Lap shear strength test	IEC 61730-2: 2016 (Cl. 10.25), IS/IEC 61730-2: 2016 (Cl.10.25), UL 61730-2: 2017 (Cl. 10.25), EN 61730-2: 2018 (Cl. 10.25), UL 61730-2: (Cl. 10.25)
39	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Materials creep test	IEC 61730-2: 2016 (Cl. 10.26), IS/IEC 61730-2: 2016 (Cl.10.26), UL 61730-2: 2017 (Cl. 10.26), EN 61730-2: 2018 (Cl. 10.26), UL 61730-2: (Cl. 10.26)
40	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Maximum power determination	IEC 61215-2: 2016 (Cl. 4.2) (withdrawn), IS 14286 (Part 2): 2019 (Cl. 4.2), UL 61215-2: 2017 (Cl. 4.2) EN 61215-2: 2018 (Cl. 4.2), IS 14286: 2010 (Cl. 10.2), IEC 61730-2: 2016 (Cl. 10.4) IS/IEC 61730-2: 2016 (Cl.10.4), UL 61730-2: 2017 (Cl. 10.4), EN 61730-2: 2018 (Cl. 10.4), UL 61730-2: 2020 (Cl. 10.4), UL 61215-2: 2021 (Cl. 4.2), EN IEC 61215-2: 2021 (Cl. 4.2), IEC 61215-2: (Cl. 4.2)
41	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Measurement of NOCT/Measurement of NMOT	IEC 61215-2: 2016 (Cl. 4.5) (withdrawn), UL 61215-2: 2017 (Cl. 4.5) EN 61215-2: 2018 (Cl. 4.5), IS 14286: 2010 (Cl. 10.5), IEC 61853-2: 2016 (Cl. 8), EN 61853-2: 2016 (Cl.8), IS 14286 (Part 2): (Cl. 4.5)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	442 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
42	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Measurement of Photovoltaic current and voltage characteristics	IEC 60904-1
43	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Measurement of temperature coefficient	IEC 61215-2: 2016 (Cl. 4.4) (withdrawn), UL 61215-2: 2017 (Cl. 4.4), EN 61215-2: 2018 (Cl. 4.4), IS 14286: 2010 (Cl. 10.4), 2 PfG 2665/06.18: 2018 (Cl. 8.1), IS 14286 (Part 2): 2019 (Cl. 4.4), IEC 61215-2: 2021 (Cl. 4.4), UL 61215-2: 2021 (Cl. 4.4), EN IEC 61215-2: 2021 (Cl. 4.4), IEC 60891: (Cl. 5)
44	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Mechanical load test	IEC 61215-2: 2016 (Cl. 4.16) (withdrawn), UL 61215-2: 2017 (Cl. 4.16), EN 61215-2: 2018 (Cl. 4.16), IS 14286: 2010 (Cl. 10.16), IEC 61730-2: 2016 (Cl. 10.23), IS/IEC 61730-2: 2016 (Cl.10.23), UL 61730-2: 2017 (Cl. 10.23), EN 61730-2: 2018 (Cl. 10.23), IS 14286 (Part 2): 2019 (Cl. 4.16), UL 61730-2: 2020 (Cl. 10.23), UL 61215-2: 2021 (Cl. 4.16), EN IEC 61215-2: 2021 (Cl. 4.16), IEC 61215-2: (Cl. 4.16)
45	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Module breakage test	IEC 61730-2: 2016 (Cl. 10.21), IS/IEC 61730-2: 2016 (Cl.10.21), UL 61730-2: 2017 (Cl. 10.21), EN 61730-2: 2018 (Cl. 10.21), IS/IEC 61730-2: 2004 + Amd 1: 2017 (Cl. 10.10), UL 61730-2: (Cl. 10.21)
46	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Outdoor exposure test	IEC 61215-2: 2016 (Cl. 4.8) (withdrawn), UL 61215-2: 2017 (Cl. 4.8), EN 61215-2: 2018 (Cl. 4.8), IS 14286: 2010 (Cl. 10.8), IS 14286 (Part 2): 2019 (Cl. 4.8), UL 61215-2: 2021 (Cl. 4.8), EN IEC 61215-2: 2021 (Cl. 4.8), IEC 61215-2: (Cl. 4.8)

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 443 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
47	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Peel test	IEC 61730-2: 2016 (Cl. 10.24), IS/IEC 61730-2: 2016 (Cl.10.24), UL 61730-2: 2017 (Cl. 10.24), EN 61730-2: 2018 2018 (Cl. 10.24), UL 61730-2: (Cl. 10.24)
48	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Performance at low irradiance	IEC 61215-2: 2016 (Cl. 4.7) (withdrawn), UL 61215-2: 2017 (Cl. 4.7), EN 61215-2: 2018 (Cl. 4.7), IS 14286: 2010 (Cl. 10.7), 2 PfG 2689/04.19 (Cl. 6.3): 2019, 2 PfG 2645/11.18 (Cl. 6.2.4): 2018, 2 PfG 2665/06.18 (Cl. 8.2): 2018, IEC 61853-1: 2011 (Cl. 7.4), EN 61853-1: 2011 (Cl. 7.4), IS 16170 (Part 1): 2014 (Cl. 7.4), IS 14286 (Part 2): 2019 (Cl. 4.7), UL 61215-2: 2021 (Cl. 4.7), EN IEC 61215-2: 2021 (Cl. 4.7), IEC TS 63209-1: 2021 (Cl. 5.5), IEC 61215-2: (Cl. 4.7)
49	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Performance at STC and NOCT /Performance at STC and NMOT	IEC 61215-2: 2016 (Cl. 4.6) (withdrawn), IS 14286 (Part 2): 2019 (Cl. 4.6), UL 61215-2: 2017 (Cl. 4.6) EN 61215-2: 2018 (Cl. 4.6), IS 14286: 2010 (Cl. 10.6), IEC 61730-2: 2016 (Cl. 10.3), IS/IEC 61730-2: 2016 (Cl.10.3), UL 61730-2: 2017 (Cl. 10.3), EN 61730-2: 2018 (Cl. 10.3), IEC 61853-1: 2011 (Cl. 7.3), EN 61853-1: 2011 (Cl. 7.3), IS 16170 (Part 1): 2014 (Cl. 7.3), IEC 61853-1: 2011 (Cl. 7.2), EN 61853-1: 2011 (Cl. 7.2), IS 16170 (Part 1): 2014 (Cl. 7.2), 2 PfG 2689/04.19: (Cl. 6.3)
50	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Reverse current overload test	IEC 61730-2: 2016 (Cl. 10.20), IS/IEC 61730-2: 2016 (Cl.10.20), UL 61730-2: 2017 (Cl. 10.20), EN 61730-2: 2018 (Cl. 10.20), IS/IEC 61730-2: 2004 + Amd 1: 2017 (Cl. 10.9), 2 PfG 2665/06.18: 2018 (Cl. 8.9), UL 61730-2: (Cl. 10.20)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	444 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
51	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Robustness of termination test	IEC 61215-2: 2016 (Cl. 4.14) (withdrawn), UL 61215-2: 2017 (Cl. 4.14), EN 61215-2: 2018 (Cl. 4.14), IS 14286: 2010 (Cl. 10.14), IEC 61730-2: 2016 (Cl. 10.27), IS/IEC 61730-2: 2016 (Cl.10.27), UL 61730-2: 2017 (Cl. 10.27), EN 61730-2: 2018 (Cl. 10.27), IS 14286 (Part 2): 2019 (Cl. 4.14), UL 61730-2: (Cl. 10.27): 2020, UL 61215-2: 2021 (Cl. 4.14), EN IEC 61215-2: 2021 (Cl. 4.14), IEC 61215-2: (Cl. 4.14)
52	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Screw connections test	IEC 61730-2: 2016 (Cl. 10.22), IS/IEC 61730-2: 2016 (Cl.10.22), UL 61730-2: 2017 (Cl. 10.22), EN 61730-2: 2018 (Cl. 10.22), UL 61730-2: (Cl. 10.22)
53	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Sharp edge test	IEC 61730-2: 2016 (Cl. 10.7), IS/IEC 61730-2: 2016 (Cl.10.7), UL 61730-2: 2017 (Cl. 10.7), EN 61730-2: 2018 (Cl. 10.7), UL 61730-2: (Cl. 10.7)
54	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Stabilization	IEC 61215-2: 2016 (Cl. 4.19) (withdrawn), UL 61215-2: 2017 (Cl. 4.19), EN 61215-2: 2018 (Cl. 4.19), IEC 61215-1-1: 2016 (Cl 11.19), IS 14286 (Part 1/Sec 1): 2019 (Cl. 11.19), UL 61215-1-1: 2017 (Cl. 11.19), EN 61215-1-1: 2018 (Cl. 11.19), IS 14286 (Part 2): 2019 (Cl. 4.19), UL 61215-2: 2021 (Cl. 4.19), EN IEC 61215-2: 2021 (Cl. 4.19), IEC 61701: 2020 (Cl. 6.2), EN IEC 61701: 2020 (Cl. 6.2), IEC TS 63209-1: 2021 (Cl. 5.4), IEC 61215-2: (Cl. 4.19)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	445 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
55	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Temperature test	IEC 61730-2: 2016 (Cl. 10.15), IS/IEC 61730-2: 2016 (Cl.10.15), UL 61730-2: 2017 (Cl. 10.15), IS/IEC 61730-2: 2004+Amd 1: 2017 (Cl. 10.7), 2 PfG 2665/06.18: 2018 (Cl. 8.8), EN 61730-2: 2018 (Cl. 10.15), UL 61730-2: (Cl. 10.15)
56	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	UV-preconditioning	IEC 61215-2: 2016 (Cl. 4.10) (withdrawn), IS 14286 (Part 2): 2019 (Cl. 4.10), UL 61215-2: 2017 (Cl. 4.10), EN 61215-2: 2018 (Cl. 4.10), IS 14286: 2010 (Cl. 10.10), IEC 61730-2: 2016 (Cl. 10.31), IS/IEC 61730-2: 2016 (Cl.10.31), UL 61730-2: 2017 (Cl. 10.31), EN 61730-2: 2018 (Cl. 10.31), 2 PfG 2665/06.18: 2018 (Cl. 8.4), UL 61730-2: (Cl. 10.31): 2020, UL 61215-2: 2021 (Cl. 4.10), EN IEC 61215-2: 2021 (Cl. 4.10), IEC 61215-2: (Cl. 4.10)
57	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Visual inspection	IEC 61215-2: 2016 (Cl. 4.1) (withdrawn), IS 14286 (Part 2): 2019 (Cl. 4.1), UL 61215-2: 2017 (Cl. 4.1), EN 61215-2: 2018 (Cl. 4.1), IEC 61215-1: 2016 (Cl. 8), IS 14286 (Part 1): 2019 (Cl. 8), UL 61215-1: 2017 (Cl. 8), EN 61215-1: 2018 (Cl. 8), IS 14286: 2010 (Cl. 10.1), IEC 61730-2: 2016 (Cl. 10.2), IS/IEC 61730-2: 2016 (Cl.10.2), UL 61730-2: 2017 (Cl. 10.2), EN 61730-2: 2018 (Cl. 10.2), IS/IEC 61730-2: 2004+Amd 1: 2017 (Cl. 10.1), 2 PfG 2689/04.19: 2019 (Cl. 6.1), UL 61730-2: (Cl. 10.2)

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 446 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
58	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Wet leakage current test	IEC 61215-2: 2016 (Cl. 4.15) (withdrawn), UL 61215-2: 2017 (Cl. 4.15), EN 61215-2: 2018 (Cl. 4.15) IS 14286: 2010 (Cl. 10.15), IEC 61730-2: 2016 (Cl. 10.14), IS/IEC 61730-2: 2016 (Cl.10.14), UL 61730-2: 2017 (Cl. 10.14), EN 61730-2: 2018 (Cl. 10.14), IS 14286 (Part 2): 2019 (Cl. 4.15), UL 61730-2: (Cl. 10.14): 2020, UL 61215-2: 2021 (Cl. 4.15), EN IEC 61215-2: 2021 (Cl. 4.15), IEC TS 63209-1: 2021 (Cl. 5.7), IEC 61215-2: (Cl. 4.15)
59	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Bypass diode thermal test	IEC 61215-2: (Cl. 4.18.1)
60	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Bypass diode thermal test	IEC 61215-2: 2016 (Cl. 4.18.1) (withdrawn), IS 14286 (Part 2): 2019 (Cl. 4.18.1), UL 61215-2: 2017 (Cl. 4.18.1), EN 61215-2: 2018 (Cl. 4.18.1), IS 14286: 2010 (Cl. 10.18), IEC 61730-2: 2016 (Cl. 10.19), IS/IEC 61730-2: 2016 (Cl.10.19), UL 61730-2: 2017 (Cl. 10.19), EN 61730-2: 2018 (Cl. 10.19), 2 PfG 2665/06.18: 2018 (Cl. 8.7), UL 61730-2: (Cl. 10.19): 2020, UL 61215-2: 2021 (Cl. 4.18.1), EN IEC 61215-2: 2021 (Cl. 4.18.1), IEC 61701: 2020 (Cl. 6.8), EN IEC 61701: (Cl. 6.8)
61	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Cold conditioning	IEC 61730-2: 2016 (Cl. 10.32), IS/IEC 61730-2: 2016 (Cl.10.32), UL 61730-2: 2017 (Cl. 10.32), EN 61730-2: 2018 (Cl. 10.32), UL 61730-2: (Cl. 10.32)
62	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Cyclic (dynamic) mechanical load testing	IEC TS 62782: 2016, UL 61215-2: 2021 (Cl. 4.20), EN IEC 61215-2: 2021 (Cl. 4.20), IEC 61215-2: (Cl. 4.20)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	447 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
63	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Damp heat test	IEC 61215-2: 2016 (Cl. 4.13) (withdrawn), UL 61215-2: 2017 (Cl. 4.13), EN 61215-2: 2018 (Cl. 4.13), IS 14286: 2010 (Cl. 10.13), IEC 61730-2: 2016 (Cl. 10.30), IS/IEC 61730-2: 2016 (Cl.10.30), UL 61730-2: 2017 (Cl. 10.30), EN 61730-2: 2018 (Cl. 10.30), IS 14286 (Part 2): 2019 (Cl. 4.13), UL 61730-2: (Cl. 10.30): 2020, UL 61215-2: 2021 (Cl. 4.13), EN IEC 61215-2: 2021 (Cl. 4.13), IEC 61215-2: (Cl. 4.13)
64	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Dry heat conditioning	IEC 61730-2: 2016 (Cl. 10.33), IS/IEC 61730-2: 2016 (Cl.10.33), UL 61730-2: 2017 (Cl. 10.33), EN 61730-2: 2018 (Cl. 10.33), UL 61730-2: (Cl. 10.33)
65	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Electroluminescence imaging	IEC TS 62804-1: 2015 (Cl. 4.2f), IS 17210: Part 1 : 2019 (Cl. 4.2f), IEC TS 60904-13: 2018, 2 PfG 2689/04.19: (Cl. 6.2)
66	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Light and elevated temperature induced degradation (LeTID)	2 PfG 2689/04.19 (Cl. 6.4)
67	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Measurement of current-voltage characteristics of bifacial photovoltaic (PV) modules	2 PfG 2645/11.18: 2018 (Cl. 6.2.2), IEC TS 60904-1-2
68	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Performance at STC	UL 61730-2: 2020 (Cl. 10.3), UL 61215-2: 2021 (Cl. 4.6), EN IEC 61215-2: 2021 (Cl. 4.6), IEC TS 63209-1: 2021 (Cl. 5.5), IEC 61215-2: (Cl. 4.6)
69	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Power rating at LTC (Low Temperature Condition)	IEC 61853-1: 2011 (Cl. 7.6), EN 61853-1: 2011 (Cl. 7.6), IS 16170 (Part 1): (Cl. 7.6)
70	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Requirements for construction	IEC 61730-1: 2016, IS/IEC 61730-1 : 2016, UL 61730-1: 2017, IS/IEC 61730-1: 2004 + Amd 1: 2017+ Amd 2: 2017, EN 61730-1: 2018, UL 61730-1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 448 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
71	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Special requirements for testing of crystalline silicon photovoltaic (PV) modules	IEC 61215-1-1: 2016 (withdrawn), UL 61215-1-1: 2017, EN 61215-1-1: 2018, IS 14286 (Part 1/Sec 1): 2019, UL 61215-1-1: 2021, EN IEC 61215-1-1: 2021, IEC 61215-1-1
72	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Stress method a), testing in damp heat using an environmental chamber	IEC TS 62804-1: 2015 (Cl. 4.3.2), IS 17210: Part 1: 2019 (Cl. 4.3.2), UL 61215-2: 2021 (Cl. 4.21), EN IEC 61215-2: 2021 (Cl. 4.21), IEC 61215-2: (Cl. 4.21)
73	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Stress method b), contacting the surfaces with a conductive electrode	IEC TS 62804-1: 2015 (Cl. 4.3.3), IS 17210: Part 1 (Cl. 4.3.3)
74	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Stress-specific stabilization	UL 61215-2: 2021 (Cl. 4.19.7), EN IEC 61215-2: 2021 (Cl. 4.19.7), IEC TS 63209-1: 2021 (Cl. 5.12), IEC 61215-2: (Cl. 4.19.7)
75	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Test requirements	IEC 61215-1: 2016 (withdrawn), UL 61215-1: 2017, EN 61215-1: 2018, IS 14286 (Part 1): 2019, UL 61215-1: 2021, EN IEC 61215-1: 2021, IEC 61215-1
76	ELECTRONICS-MISCELLANEOUS PRODUCTS	Photovoltaic (PV) modules	Visual inspection	UL 61215-2: 2021 (Cl. 4.1), EN IEC 61215-2: 2021 (Cl. 4.1), IEC TS 63209-1: 2021 (Cl. 5.3), IEC 61215-2: (Cl. 4.1)
77	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Water Pumping System	Protection Test	MNRE_JNNSM: 2013-14(Cl. VI), MNRE_JNNSM: 2015-16 (Cl. VI), IS 17018 (Part 1) : 2018 (Cl. 7.4.4)
78	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Water Pumping System - Procedure	Outdoor Condition using sun radiation	MNRE Annexure-II, F. No. 41/3/2018-SPV Division dt.17.7.2019 (Cl. 5.2)
79	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Water Pumping System - Procedure	Protection Test	MNRE Annexure-II, F. No. 41/3/2018-SPV Division dt.17.7.2019 (Cl. 5.0)
80	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Water Pumping System - Procedure	Simulator Methods: Hot and cold Profiles	MNRE Annexure-II, F. No. 41/3/2018-SPV Division dt.17.7.2019 (Cl. 5.1)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	449 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
81	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar Photovoltaic Water Pumping System - Procedure	Use of other brand of solar modules	MNRE Annexure-II, F. No. 41/3/2018-SPV Division dt. 17.7.2019 (Cl. 13)
82	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar photovoltaic water pumping systems	Performance Test	MNRE_JNNSM: 2013-14 (Cl. II), MNRE_JNNSM: 2015-16 (Cl. II), IS 17018 (Part 1): 2018 (Cl. 10.3)
83	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar photovoltaic water pumping systems - Drinking Water Applications	Performance Test	MNRE_JNNSM: 2014-15 (Cl. II)
84	ELECTRONICS-MISCELLANEOUS PRODUCTS	Solar photovoltaic water pumping systems - Drinking water Applications	Protection Test	MNRE_JNNSM: 2014-15 (Cl. VI)
85	ELECTRONICS-MISCELLANEOUS PRODUCTS	Universal Solar Pump Controller (USPC) Specifications for Stand-alone applications	Testing Procedure for Universal Solar Pump Controller (USPC)	MNRE Annexure-III, F. No. 41/3/2018-SPV Division dt.17.7.2019

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 450 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
LOCATION 3 - TUV RHEINLAND (INDIA) PVT. LTD. MATERIAL TESTING LABORATORY, 2ND FLOOR, NO. 27/B, 2ND CROSS ROAD,ELECTRONIC CITY PHASE-1, BANGALORE – 560 100, INDIA, BENGALURU, KARNATAKA, INDIA Permanent Facility				
1	CHEMICAL- CORROSION TESTS	Coated Metals	Corrosion test	PV 1210
2	CHEMICAL- CORROSION TESTS	Electroplated and anodized aluminium coatings	Neutral salt spray test	IS 9844
3	CHEMICAL- CORROSION TESTS	Metal products, Polymer products	Cyclic corrosion test	SAE J 2334
4	CHEMICAL- CORROSION TESTS	Metallic and Non Metallic Coating on Ferrous, Metallic and Non Metallic Material	Copper Accelerated Acetic Acid Salt Spray Test (CASS)	ASTM B 368
5	CHEMICAL- CORROSION TESTS	Metals & Alloys: Metal Coils, Plated Parts , Automotive Components for shipping and storage, Medical Instruments and Surgical Blades, Nuts, Bolts, Automotive ECU's, Screws, Tools	Salt Spray Testing	ASTM B117
6	CHEMICAL- CORROSION TESTS	Metals & Alloys: Metal Coils, Plated Parts , Automotive Components for shipping and storage, Medical Instruments and Surgical Blades, Nuts, Bolts, Automotive ECU's, Screws, Tools	Acetic acid salt spray (AASS) test	ISO 9227 (cl.5.2.3)
7	CHEMICAL- CORROSION TESTS	Metals & Alloys: Metal Coils, Plated Parts , Automotive Components for shipping and storage, Medical Instruments and Surgical Blades, Nuts, Bolts, Automotive ECU's, Screws, Tools	Copper-accelerated acetic acid salt spray (CASS) test	ISO 9227 (cl.5.2.4)
8	CHEMICAL- CORROSION TESTS	Metals & Alloys: Metal Coils, Plated Parts , Automotive Components for shipping and storage, Medical Instruments and Surgical Blades, Nuts, Bolts, Automotive ECU's, Screws, Tools	Modified Salt Spray Testing	ASTM G 85 (Annexure A1, A2, A3 & A5)
9	CHEMICAL- CORROSION TESTS	Metals & Alloys: Metal Coils, Plated Parts , Automotive Components for shipping and storage, Medical Instruments and Surgical Blades, Nuts, Bolts, Automotive ECU's, Screws, Tools	Neutral salt spray (NSS) test	ISO 9227 (Cl.5.2.2)
10	CHEMICAL- CORROSION TESTS	Metals & Alloys: Metal Coils, Plated Parts , Automotive Components for shipping and storage, Medical Instruments and Surgical Blades, Nuts, Bolts, Automotive ECU's, Screws, Tools	Salt Spray Testing	EN/IEC 60068-2-52, BSEN 60068-2-11:2021
11	CHEMICAL- CORROSION TESTS	Metals & Alloys: Metal Coils, Plated Parts , Automotive Components for shipping and storage, Medical Instruments and Surgical Blades, Nuts, Bolts, Automotive ECU's, Screws, Tools	Salt Spray Testing	MIL-DTL5541 F

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 451 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
12	CHEMICAL- CORROSION TESTS	Metals & Alloys: Metal Coils, Plated Parts , Automotive Components for shipping and storage, Medical Instruments and Surgical Blades, Nuts, Bolts, Automotive ECU's, Screws, Tools	Salt Spray Testing	JIS Z 2371
13	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments, EC.No.1907	Group-IV- 6-methoxy-m-toluidine (p-cresidine)	Work instruction no. MS-0026244
14	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Acenaphthalene	Work instruction number MS-0046665
15	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Acenaphthene	work instruction number MS-0046665
16	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Anthracene	AfPS GS 2019-01 PAK
17	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Benzo (a) antharacene	work instruction number MS-0046665
18	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Benzo (a) antharacene	AfPS GS 2019-01 PAK
19	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Benzo (a) Pyrene	work instruction number MS-0046665
20	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Benzo (b) fluoranthene	AfPS GS 2019-01 PAK
21	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Benzo (b) fluoranthene	work instruction number MS-0046665
22	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Benzo (e) Pyrene	AfPS GS 2019-01 PAK
23	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Benzo (e) Pyrene	work instruction number MS-0046665
24	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Benzo (g,h,i) perylene	AfPS GS 2019-01 PAK

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 452 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
25	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Benzo (g,h,i) perylene	work instruction number MS-0046665
26	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Benzo (j) fluoranthene	AfPS GS 2019-01 PAK
27	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Benzo (j) fluoranthene	work instruction number MS-0046665
28	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Benzo (k) fluoranthene	AfPS GS 2019-01 PAK
29	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Benzo (k) fluoranthene	work instruction number MS-0046665
30	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Chrysen	AfPS GS 2019-01 PAK
31	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Chrysen	work instruction number MS-0046665
32	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Dibenzo (a,h) Antharacene	AfPS GS 2019-01 PAK
33	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Dibenzo (a,h) Antharacene	Work instruction number MS-0046665
34	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Fluoranthene	AfPS GS 2019-01 PAK
35	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Fluoranthene	Work instruction number MS-0046665
36	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Fluorene	work instruction number MS-0046665
37	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Indeno (1,2,3-cd) Pyrene	AfPS GS 2019-01 PAK
38	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Indeno (1,2,3-cd) Pyrene	work instruction number MS-0046665

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	453 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
39	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Naphthalene	AfPS GS 2019-01 PAK
40	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Naphthalene	work instruction number MS-0046665
41	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Phenanthrene	AfPS GS 2019-01 PAK
42	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Phenanthrene	work instruction number MS-0046665
43	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Pyrene	AfPS GS 2019-01 PAK
44	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Pyrene	Work instruction number MS-0046665
45	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Anthracene	Work instruction number MS-0046665
46	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Leather, Paint, Plastic & Other polymeric products & others	Benzo (a) Pyrene	AfPS GS 2019-01 PAK
47	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-II-Bis(2-methoxyethyl) ether; Diglyme	Work instruction no. MS-0026244
48	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-III-Phthalate 1,2-Benzenedicarbo xylic acid, di-C6-8-branched alkyl esters, C7-rich (DiHP)	Work instruction no. MS-0026244
49	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-IV-4-methyl-m-phenylenedia mine (2,4-toluene-diamine)	Work instruction no. MS-0026244
50	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-V- Perfluorooctane Sulfonate (PFOS)	Work instruction no. MS-0026244
51	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-V-Phenolphthalein	Work instruction no. MS-0026244

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 454 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
52	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-X- 1,2-benzenedicarboxylic acid, dihexylester, branched and linear	Work instruction no. MS-0026244
53	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-X- Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	Work instruction no. MS-0026244
54	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group I-Methoxy acetic acid	Work instruction no. MS-0026244
55	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group I-Trichloroethylene	Work instruction no. MS-0026244
56	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group- IX- Methoxymethane	Work instruction no. MS-0026244
57	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-1 - 1,2,3-trichloropropane	Work instruction no. MS-0026244
58	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-I - 2-ethoxyethyl acetate	Work instruction no. MS-0026244
59	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-I - Dimethyl sulphate	Work instruction no. MS-0026244
60	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-I- 5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	Work instruction no. MS-0026244
61	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-II- 1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	Work instruction no. MS-0026244
62	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-II- 4-(1,1,3,3-tetramethylbutyl) phenol	Work instruction no. MS-0026244
63	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-II- 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with = 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	Work instruction no. MS-0026244

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 455 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
64	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-II- Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	Work instruction no. MS-0026244
65	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-II- Triethylene glycol dimethyl ether	Work instruction no. MS-0026244
66	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-II- Tris(2-chloroethyl)phosphate	Work instruction no. MS-0026244
67	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-II-1,2-Dichloroethane	Work instruction no. MS-0026244
68	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-II-1,2-Diethoxyethane	Work instruction no. MS-0026244
69	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-II-1-methyl-2-pyrrolidone	Work instruction no. MS-0026244
70	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-II-Formamide	Work instruction no. MS-0026244
71	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-II-Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride,Hexahydro-3-methylphathalic anhydride	Work instruction no. MS-0026244
72	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-III- Diisopentyl phthalate or Diamyl phthalate(DiPP)	Work instruction no. MS-0026244
73	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-III- Dipentyl phthalate(DPP)	Work instruction no. MS-0026244
74	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-III-1,2-Bezenedicarboxylix Acid,Dihexyl Ester Branched And Linear	Work instruction no. MS-0026244
75	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-III-1,2-benzenedicarboxylic acid,dic7-11-branched and linear alkyl ester(DHNUP)	Work instruction no. MS-0026244

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	456 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
76	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-III-Benzylbutylphthalate (BBP)	Work instruction no. MS-0026244
77	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-III-Bis (2-ethyl(hexyl)phthalate) (DEHP)	Work instruction no. MS-0026244
78	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-III-Bis(2-methoxyethyl) phthalate	Work instruction no. MS-0026244
79	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-III-Dibutylphthalate (DBP)	Work instruction no. MS-0026244:2018; IEC 62321-8:2017
80	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-III-Dihexyl phthalate(DiHP)	Work instruction no. MS-0026244
81	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-III-Diisobutylphthalate (DiBP)	Work instruction no. MS-0026244
82	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-III-Di-isodecyl phthalate(DIDP)	Work instruction no. MS-0026244
83	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-III-Di-n-nonyl phthalate(DINP)	Work instruction no. MS-0026244
84	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-III-Di-n-octyl phthalate(DnOP)	Work instruction no. MS-0026244
85	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-II-N,N-dimethylacetamide	Work instruction no. MS-0026244
86	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-II-N,N-dimethylformamide; dimethyl formamide	Work instruction no. MS-0026244
87	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-IV-2,2’-Dichloro-4,4’-methylenedianiline	Work instruction no. MS-0026244
88	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-IV-2,4-Dinitrotoluene	Work instruction no. MS-0026244
89	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-IV-2-Methoxyaniline; o-Anisidine	Work instruction no. MS-0026244

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	457 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
90	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-IV-4,4'-methylenedi-o-toluidine	Work instruction no. MS-0026244
91	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-IV-4,4'-oxydianiline and its salts	Work instruction no. MS-0026244
92	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-IV-4-4'-Diaminodiphenyl methane	Work instruction no. MS-0026244
93	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-IV-4-Aminoazobenzene; 4-Phenylazoaniline	Work instruction no. MS-0026244
94	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-IV-Biphenyl-4-ylamine	Work instruction no. MS-0026244
95	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-IV-o-aminoazotoluene	Work instruction no. MS-0026244
96	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-IV-o-Toluidine; 2-Aminotoluene	Work instruction no. MS-0026244
97	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-IX- 1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	Work instruction no. MS-0026244
98	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-IX- 1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (ß-TGIC)	Work instruction no. MS-0026244
99	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-V- [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (victoria blue)	Work instruction no. MS-0026244
100	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-V- [4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylam monium chloride (crystal violet)	Work instruction no. MS-0026244
101	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-V- 4,4'-bis(dimethylamino) benzo phenone (Michler's ketone)	Work instruction no. MS-0026244

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 458 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
102	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-V- a,a-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)	Work instruction no. MS-0026244
103	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-V- N-methylacetamide	Work instruction no. MS-0026244
104	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-V- Perfluorotetra deconoic Acid	Work instruction no. MS-0026244
105	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-V- Perfluoroundeconoic Acid	Work instruction no. MS-0026244
106	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-V- Triphenyl phosphate	Work instruction no. MS-0026244
107	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-V-Acrylamide	Work instruction no. MS-0026244
108	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-V-Perfluorooctanoic Acid (PFOA)	Work instruction no. MS-0026244
109	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-V-Perfluorotrideconoic Acid	Work instruction no. MS-0026244
110	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-V-Tricosafluorododecanoic acid	Work instruction no. MS-0026244
111	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-X-Decamethylcyclopentasiloxane (D5)	Work instruction no. MS-0026244
112	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-X- Short Chain Chlorinated Paraffins (C10-13,) (SCCP)	Work instruction no. MS-0026244
113	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-X-Ammonium pentadecafluorooctanoate (APFO)	Work instruction no. MS-0026244
114	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-X-Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellic anhydride) (TMA)	Work instruction no. MS-0026244

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	459 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
115	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-X-Dicyclohexyl phthalate (DCHP)	Work instruction no. MS-0026244
116	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-X-Dodecamethylcyclohexasiloxane (D6)	Work instruction no. MS-0026244
117	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-XI-Benzo(ghi)perylene	Work instruction no. MS-0026244
118	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-XII- 4-Nonyl Phenol, Branched and Linear, Ethoxylated	Work instruction no.MS-0026244
119	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-XIII- 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	Work instruction no.MS-0026244
120	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-XIII-2,4-di-tert-butyl-6(5-chloro benzotriazole-2yl)phenol uv-327	Work instruction no.MS-0026244
121	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-XIV- HBCDD and its derivatives	Work instruction no.MS-0026244
122	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-XV- Dechlorane Plus	Work instruction no.MS-0026244,
123	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments	Group-V-Dinoseb	Work instruction no. MS-0026244
124	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments	Group-X- 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with = 0.3% of dihexyl phthalate	Work instruction no. MS-0026244
125	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments	Group-X- Terphenyl hydrogenated	Work instruction no. MS-0026244
126	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments	Group-X-Ethylenediamine (EDA)	Work instruction no. MS-0026244

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 460 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
127	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments	Group-XI-Benzo[a] pyrene	Work instruction no. MS-0026244
128	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments	Group-XII-4,4′-isopropylidenediphenol (bisphenol A; BPA)	Work instruction no.MS-0026244
129	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments	Group-XIII- 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	Work instruction no. MS-0026244
130	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments	Group-XII-p-(1,1-dimethylpropyl)phenol	Work instruction no.MS-0026244
131	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments	Group-X-Octamehylcyclotetrasiloxane (D4)	Work instruction no. MS-0026244
132	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments , EC.No.1907	Group-IX- 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	Work instruction no. MS-0026244
133	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments , EC.No.1907	Group-IX- Diazene-1,2-dicarboxamide (C,C`-azodi(formamide)) (ADCA)	Work instruction no. MS-0026244
134	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments , EC.No.1907	Group-IX-Propylene oxide	Work instruction no. MS-0026244
135	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments, EC.No.1907	Group-IX- Hydrazine	Work instruction no. MS-0026244
136	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments, EC.No.1907	Group-IX-1-bromopropane	Work instruction no. MS-0026244
137	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments, EC.No.1907	Group-V- CI direct black 38	Work instruction no. MS-0026244
138	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments, EC.No.1907	Group-V- Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	Work instruction no. MS-0026244
139	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments, EC.No.1907	Group-V- Perfluorohexane-1-sulphonic acid and its salts	Work instruction no. MS-0026244

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	461 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
140	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments, EC.No.1907	Group-VI- 1,3 Propane Sultone	Work instruction no. MS-0026244
141	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments, EC.No.1907	Group-VI- 2-Ethoxyethanol	Work instruction no. MS-0026244
142	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments, EC.No.1907	Group-VI- 2-Methoxyethanol	Work instruction no. MS-0026244
143	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments, EC.No.1907	Group-VI- Ethylene thiourea	Work instruction no. MS-0026244
144	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments, EC.No.1907	Group-VI-Diethyl sulphate	Work instruction no. MS-0026244
145	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments, EC.No.1907	Group-VII-Bis(tributyltin)oxide, hexabuty ldistannoxane(TBTO)	Work instruction no. MS-0026244
146	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments, EC.No.1907	Group-VIII-Trixylyl phosphate	Work instruction no. MS-0026244
147	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments, EC.No.1907	Group-VI-Nitrobenzene	Work instruction no. MS-0026244
148	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments, EC.No.1907	Group-XI-Chrysene	Work instruction no. MS-0026244
149	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments	Group-XI-Benz(a)anthracene	Work instruction no. MS-0026244
150	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-I-Anthracene and its derivatives	Work instruction no. MS-0026244
151	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic Equipments and related products ,Packaging materials ,Rubber products, Metals. Minerals, polymer and Pigments EC.No.1907	Group-I-Anthracene and its derivatives	Work instruction no. MS-0026244
152	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic equipments and related products, packaging materials, rubber products, metals, minerals, polymer and pigments EC1907	1-vinylimidazole	work instruction no.MS-0026244
153	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic equipments and related products, packaging materials, rubber products, metals, minerals, polymer and pigments EC1907	2-Methoxy ethyl acetate	work instruction no.MS-0026244

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 462 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
154	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic equipments and related products, packaging materials, rubber products, metals, minerals, polymer and pigments EC1907	2-methyl imidazole	work instruction no.MS-0026244
155	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic equipments and related products, packaging materials, rubber products, metals, minerals, polymer and pigments EC1907	4-Tert Butyl phenol	Work instruction no.MS-0026244
156	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic equipments and related products, packaging materials, rubber products, metals, minerals, polymer and pigments EC1907	Bis (2-(2-methoxyethoxy)ethyl ether	work instruction no.MS-0026244
157	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic equipments and related products, packaging materials, rubber products, metals, minerals, polymer and pigments EC1907	Butyl 4-hydroxy benzoate (Butyl paraben)	work instruction no.MS-0026244
158	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	REACH Directive Electrical and Electronic equipments and related products, packaging materials, rubber products, metals, minerals, polymer and pigments EC1907	Phenanthrene	Work instruction no.MS-0026244
159	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products , ELV (End of Life Vehicles) as per 2000/53/EC, (Electrical and Electronic Equipments and related products -Automotive components Packaging and Packaging waste as per 94/62/EC)	Cadmium (Cd)	Work instruction no.:MS-0026247-249, IEC 62321-5:2013
160	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products , ELV (End of Life Vehicles) as per 2000/53/EC, (Electrical and Electronic Equipments and related products -Automotive components Packaging and Packaging waste as per 94/62/EC)	Hexavalent Chromium(Cr VI)	Work instruction no.MS-0026247-49, IEC 62321-7-2:2017
161	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products , ELV (End of Life Vehicles) as per 2000/53/EC, (Electrical and Electronic Equipments and related products -Automotive components Packaging and Packaging waste as per 94/62/EC)	Lead (Pb)	Work Instruction no.MS-0026247-49, IEC 62321-5:2013
162	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products , ELV (End of Life Vehicles) as per 2000/53/EC, (Electrical and Electronic Equipments and related products -Automotive components Packaging and Packaging waste as per 94/62/EC)	Mercury (Hg)	Work instruction no.MS-0026247-49, IEC 62321-4-1:2017
163	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous substances) as per EU 2015/863, 2011/65/EU (Electrical and Elctronic Equipments and released products	DIDP (Di-iso-decyl phthalate)	IEC 62321-8 : 2017

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 463 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
164	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous substances) as per EU 2015/863, 2011/65/EU (Electrical and Elctronic Equipments and released products	DIDP (Di-iso-decyl phthalate)	Work instruction no.MS-0026246
165	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous substances) as per EU 2015/863, 2011/65/EU (Electrical and Elctronic Equipments and released products	DINP (Di-iso nonyl phthalate)	IEC 62321-8 : 2017
166	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous substances) as per EU 2015/863, 2011/65/EU (Electrical and Elctronic Equipments and released products	DINP (Di-iso nonyl phthalate)	Work instruction no.MS-0026246
167	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous substances) as per EU 2015/863, 2011/65/EU (Electrical and Elctronic Equipments and released products	DNOP (Di-N-Octyl Phthalate)	Work instruction no.MS-0026246
168	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous substances) as per EU 2015/863, 2011/65/EU (Electrical and Elctronic Equipments and released products	DNOP (Di-N-Octyl Phthalate)	IEC 62321-8 : 2017
169	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,2',3,3',4,4',5,5',6-Nonabromo biphenyl	IEC 62321-6
170	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,2',3,3’,4,4',5,5',6'-Nonabromo diphenylether	Work instruction no. MS-0026246, IEC 62321-6:2015
171	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,2',3,4,4',5,5',6-Octabromo diphenylether	Work instruction no. MS-0026246, IEC 62321-6:2015
172	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,2',3,4,4',5,6'-Heptabromo diphenylether	Work instruction no. MS-0026246, IEC 62321-6:2015
173	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,2',4,4',5,5'-Hexabromo biphenyl	Work instruction no. MS-0026246, IEC 62321-6:2015
174	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,2',4,4',5’,6-Hexabromo diphenylether	Work instruction no. MS-0026246, IEC 62321-6:2015
175	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,2',4,4',5-Pentabromo diphenylether	Work instruction no. MS-0026246, IEC 62321-6:2015
176	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,2',4,4'-Tetrabromo diphenylether	Work instruction no. MS-0026246, IEC 62321-6:2015
177	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,2',4,5'-Tetrabromobiphenyl	Work instruction no. MS-0026246, IEC 62321-6:2015

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 464 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
178	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,2',4,6,5'-Pentabromobiphenyl	Work instruction no. MS-0026246, IEC 62321-6:2015
179	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,2',5-Tribromobiphenyl	Work instruction no. MS-0026246, IEC 62321-6:2015
180	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,2’,3,3’,4,4’,5,5’Octabromobiphenyl	Work instruction no. MS-0026246, IEC 62321-6:2015
181	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,2'-Dibromobiphenyl	Work instruction no. MS-0026246, IEC 62321-6:2015
182	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,3,3',4,4',5,5'-Heptabromobiphenyl	Work instruction no. MS-0026246, IEC 62321-6:2015
183	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,4,4'-Tribromodiphenylether	Work instruction no. MS-0026246, IEC 62321-6:2015
184	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	3-Bromobiphenyl	Work instruction no. MS-0026246, IEC 62321-6:2015
185	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	4,4'Dibrmodiphenylether	Work instruction no. MS-0026246, IEC 62321-6:2015
186	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	4-Bbromodiphenylether	Work instruction no. MS-0026246, IEC 62321-6:2015
187	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	Benzylbutylphthalate (BBP)	Work instruction no. MS-0026246, IEC 62321-8:2017
188	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	Bis (2-ethyl(hexyl)phthalate) (DEHP)	IEC62321-8
189	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	Bis (2-ethyl(hexyl)phthalate) (DEHP)	Work instruction no. MS-0026246, IEC 62321-8:2017
190	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	Decabromobiphenyl	IEC 62321-6
191	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	Decabromobiphenyl	Work instruction no. MS-0026246, IEC 62321-6:2015

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	465 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
192	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	Decabromodiphenylether	Work instruction no. MS-0026246, IEC 62321-6:2015
193	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	Di butylphthalate (DBP)	Work instruction no. MS-0026246
194	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	Di isobutyl phthalate (DiBP)	Work instruction no. MS-0026246: 2018, IEC 62321-8-2017
195	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	RRoHS (Restriction of Hazardous Substances) as per EU 2015/863, 2011/65/EU (Electrical and Electronic Equipments and related products)	2,2',3,3',4,4',5,5',6-Nonabromo biphenyl	Work instruction no. MS-0026246
196	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Cadmium	Work Instruction No. MS-0026108
197	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	IS 504-P3
198	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	Work Instruction No. MS-0026108
199	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	IS 504-P2
200	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron	Work Instruction No. MS-0026108
201	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead	Work Instruction No. MS-0026108
202	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium	Work Instruction No. MS-0026108
203	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	IS 504-P5
204	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese	Work Instruction No. MS-0026108
205	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	IS 504-P1
206	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	Work Instruction No. MS-0026108
207	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Arsenic	Work Instruction No. MS-0026240
208	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Beryllium	Work Instruction No. MS-0026240

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	466 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
209	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Bismuth	Work Instruction No. MS-0026240
210	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	IS 3685
211	CHEMICAL- METALS & ALLOYS	copper & its alloys	Iron	IS 4027-P8
212	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Iron	Work Instruction No. MS-0026240
213	CHEMICAL- METALS & ALLOYS	Copper & its Alloys	Lead	Work Instruction No. MS-0026240
214	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	Instruction No. MS-0026240
215	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	IS 3685
216	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Manganese	IS 4027-P2
217	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Tin	IS 4027-P5
218	CHEMICAL- METALS & ALLOYS	Copper & Its alloys	Tin	Work Instruction No. MS-0026240
219	CHEMICAL- METALS & ALLOYS	Copper & its alloys	Zinc	IS 3685
220	CHEMICAL- METALS & ALLOYS	copper & its alloys	Zinc	IS 4027-P6
221	CHEMICAL- METALS & ALLOYS	Lead free solder	Indium	Work Instruction number MS-0026243
222	CHEMICAL- METALS & ALLOYS	Lead Free solder	Aluminium	Work instruction number MS-0026243
223	CHEMICAL- METALS & ALLOYS	Lead free solder	Antimony	Work Instruction No. MS-0026243
224	CHEMICAL- METALS & ALLOYS	Lead free solder	Arsenic	Work Instruction number MS-0026243
225	CHEMICAL- METALS & ALLOYS	Lead free solder	Bismuth	Work Instruction No. MS-0026243
226	CHEMICAL- METALS & ALLOYS	Lead free solder	Cadmium	Work Instruction No. MS-0026243
227	CHEMICAL- METALS & ALLOYS	Lead free solder	Copper	Work Instruction No. MS-0026243

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	467 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
228	CHEMICAL- METALS & ALLOYS	Lead free solder	Gold	work instruction no.MS-0026243
229	CHEMICAL- METALS & ALLOYS	Lead free solder	Iron	Work Instruction No. MS-0026243
230	CHEMICAL- METALS & ALLOYS	Lead free solder	Nickel	Work Instruction No. MS-0026243
231	CHEMICAL- METALS & ALLOYS	Lead free solder	Silver	Work Instruction No. MS-0026243
232	CHEMICAL- METALS & ALLOYS	Lead free solder	Tin	IS 998-P1
233	CHEMICAL- METALS & ALLOYS	lead free solder	Zinc	Work Instruction No. MS-0026243
234	CHEMICAL- METALS & ALLOYS	Lead free solders	Lead	Work Instruction No. MS-0026243
235	CHEMICAL- METALS & ALLOYS	Leaded solder	Aluminium	Work instruction number MS-0026243
236	CHEMICAL- METALS & ALLOYS	Leaded solder	Arsenic	Work instruction number MS-0026243
237	CHEMICAL- METALS & ALLOYS	Leaded solder	Cadmium	Work instruction number MS-0026243
238	CHEMICAL- METALS & ALLOYS	Leaded solder	Copper	Work instruction number MS-0026243
239	CHEMICAL- METALS & ALLOYS	Leaded solder	Gold	Work instruction number MS-0026243
240	CHEMICAL- METALS & ALLOYS	Leaded solder	Indium	Work instruction number MS-0026243
241	CHEMICAL- METALS & ALLOYS	Leaded solder	Iron	Work instruction number MS-0026243
242	CHEMICAL- METALS & ALLOYS	Leaded solder	Nickel	Work instruction number MS-0026243
243	CHEMICAL- METALS & ALLOYS	Leaded solder	Silver	Work instruction number MS-0026243
244	CHEMICAL- METALS & ALLOYS	Leaded solder	Tin	IS 998 : Part 1 : 1983 (Reaffirmed Year : 2019)
245	CHEMICAL- METALS & ALLOYS	Leaded solder	Zinc	Work instruction number MS-0026243
246	CHEMICAL- METALS & ALLOYS	Leaded solder	Antimony	Work Instruction number MS-0026243

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 468 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
247	CHEMICAL- METALS & ALLOYS	Leaded solder	Bismuth	Work Instruction number MS-0026243
248	CHEMICAL- METALS & ALLOYS	Leaded solder	Lead	IS 403-1964
249	CHEMICAL- METALS & ALLOYS	Multilayer Ni Coatings	Nickel coating thickness	ASTM B764-04(2021)
250	CHEMICAL- METALS & ALLOYS	Multilayer Ni Coatings	Nickel coating thickness	DIN EN 16866: 2018
251	CHEMICAL- METALS & ALLOYS	Multilayer Ni Coatings	Nickel coating thickness	PV 1065: 2013-04
252	CHEMICAL- METALS & ALLOYS	Multilayer Ni Coatings	Potential Difference between Ni Layers	ASTM B764-04(2021)
253	CHEMICAL- METALS & ALLOYS	Multilayer Ni Coatings	Potential Difference between Ni Layers	DIN EN 16866: 2018
254	CHEMICAL- METALS & ALLOYS	Multilayer Ni Coatings	Potential Difference between Ni Layers	PV 1065: 2013-04
255	CHEMICAL- METALS & ALLOYS	Ni Coatings	Nickel Coating Thickness	ISO 2177
256	CHEMICAL- METALS & ALLOYS	Stainless steel	Carbon	IS 228-P1
257	CHEMICAL- METALS & ALLOYS	Stainless steel	Chromium	IS 228-P6
258	CHEMICAL- METALS & ALLOYS	Stainless steel	Copper	Work Instruction No. MS-0026238
259	CHEMICAL- METALS & ALLOYS	Stainless steel	Managanese	IS 228-P12
260	CHEMICAL- METALS & ALLOYS	Stainless steel	Manganese	Work Instruction No. MS-0026238
261	CHEMICAL- METALS & ALLOYS	Stainless steel	Molybdenum	Work Instruction No. MS-0026238
262	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	IS 228-P5
263	CHEMICAL- METALS & ALLOYS	Stainless steel	Nickel	Work Instruction No. MS-0026238
264	CHEMICAL- METALS & ALLOYS	Stainless steel	Phosphorus	Work Instruction No. MS-0026238
265	CHEMICAL- METALS & ALLOYS	Stainless steel	Silicon	IS 228-P8

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 469 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
266	CHEMICAL- METALS & ALLOYS	Stainless steel	Sulphur (Low carbon, Low alloy)	IS228-P9
267	CHEMICAL- METALS & ALLOYS	Stainless steel	Vanadium	Work Instruction No. MS-0026238
268	CHEMICAL- METALS & ALLOYS	Steel	Carbon	IS 228-P1
269	CHEMICAL- METALS & ALLOYS	Steel	Chromium	IS 228-P6
270	CHEMICAL- METALS & ALLOYS	Steel	Copper	Work Instruction No. MS-0026238
271	CHEMICAL- METALS & ALLOYS	Steel	Manganese	IS 228-P12
272	CHEMICAL- METALS & ALLOYS	Steel	Manganese	Work Instruction No. MS-0026238
273	CHEMICAL- METALS & ALLOYS	Steel	Molybdenum	Work Instruction No. MS-0026238
274	CHEMICAL- METALS & ALLOYS	Steel	Nickel	IS 228-P5
275	CHEMICAL- METALS & ALLOYS	Steel	Nickel	Work Instruction No. MS-0026238
276	CHEMICAL- METALS & ALLOYS	Steel	Phosphorous	Work Instruction No. MS-0026238
277	CHEMICAL- METALS & ALLOYS	Steel	Silicon	IS 228-P8
278	CHEMICAL- METALS & ALLOYS	Steel	Sulphur (Low carbon, Low alloy)	IS228-P9
279	CHEMICAL- METALS & ALLOYS	Steel	Vanadium	Work Instruction No. MS-0026238
280	CHEMICAL- PAINTS & SURFACE COATING	Coated metals	Water resistance of coatings using water Fog	ASTM D 1735
281	CHEMICAL- PAINTS & SURFACE COATING	Painted /Coated material	Standard practice for Xenon Arc Exposure test with enhanced light and water exposure for transportation coatings	ASTM D 7869
282	CHEMICAL- PAINTS & SURFACE COATING	painted/ coated metal	Resistance to humidity	ISO 12944-2
283	CHEMICAL- PAINTS & SURFACE COATING	Polymer products, Metal products	Water resistance of coatings	ASTM D 2247

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 470 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
284	CHEMICAL- PAINTS & SURFACE COATING	polymer products, Metals products	Resistance to humidity	ISO 6270-2
285	CHEMICAL- PLASTIC & RESINS	Non-Metallic materials	Exposure test for determination of tackiness of polypropylene parts	PV 1306
286	CHEMICAL- PLASTIC & RESINS	Non-Metallic materials	Weathering in Dry, Hot climate (Exterior)	PV 3929
287	CHEMICAL- PLASTIC & RESINS	Non-metallic materials	Weathering in Humid, Hot climate (Exterior)	PV 3930
288	CHEMICAL- PLASTIC & RESINS	Plastic & Plastic products	Ash / Filler content	ISO 1172(method A)
289	CHEMICAL- PLASTIC & RESINS	Plastic & polymers	Compositional analysis by thermogravimetry (TGA)	ASTM E 1131-08
290	CHEMICAL- PLASTIC & RESINS	Plastic & polymers	Determination of Fogging characteristics	ISO 17071, Method A
291	CHEMICAL- PLASTIC & RESINS	plastic & polymers	Glass transition temperature , Melting point, Crystallization temperature by DSC	ASTM D 3418
292	CHEMICAL- PLASTIC & RESINS	plastic & polymers	Melting point, crystallization temperature by DSC	ISO 11357-3
293	CHEMICAL- PLASTIC & RESINS	Plastic & polymers	Weather-ability or fading resistance for color fastness to light (Xenon-Arc lamps)	ASTM G 155
294	CHEMICAL- PLASTIC & RESINS	Plastic materials & products	Ash content	ASTM D 5630 (Method B) (Withdrawn)
295	CHEMICAL- PLASTIC & RESINS	Plastic materials & products	Ash content	ISO 3451-1 (Method A)
296	CHEMICAL- PLASTIC & RESINS	Plastic materials & products	Glass / Ash content	ISO 1172 (Method B)
297	CHEMICAL- PLASTIC & RESINS	Plastics & polymers	Determination of Fogging characteristics	ISO 17071 (Method B)
298	CHEMICAL- PLASTIC & RESINS	Plastics & polymers	Determination of Formaldehyde emission	VDA 275
299	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers	Exposure of non-metallic materials (For operating Fluorescent ultraviolet UV lamp)	ASTM G 154
300	CHEMICAL- PLASTIC & RESINS	Plastics & polymers	Fogging behavior of interior automotive materials	PV 3015

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 471 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
301	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers	Fogging Characteristics of interior automotive materials	DIN 75201
302	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers	Fogging Characteristics of interior automotive materials	SAE J 1756
303	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers	Fogging test for interior materials	NES M0161
304	CHEMICAL- PLASTIC & RESINS	plastics & polymers	Glass transition temperature by DSC	ISO 11357-2
305	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers	Odor test	VDA 270, PV 3900: 2019, SAE J 1351: 2022
306	CHEMICAL- PLASTIC & RESINS	Plastics & polymers	Plastics-Exposure to light sources (Fluorescent UV Lamps)	ISO 4892-3
307	CHEMICAL- PLASTIC & RESINS	Plastics & polymers	Plastics-Exposure to light sources (Xenon-Arc Lamps)	ISO 4892-2
308	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers	Synthetic perspiration	FLTM BI 113-03
309	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers	Thermogravimetry of polymers	ISO 11358 -1
310	CHEMICAL- PLASTIC & RESINS	plastics & Polymers	Weather-ability or fading resistance for color fastness to light (Xenon-Arc lamps)	SAE J 2412
311	CHEMICAL- PLASTIC & RESINS	Plastics & Polymers	Weather-ability or fading resistance for color fastness to light (Xenon-Arc lamps)	SAE J 2527
312	CHEMICAL- PLASTIC & RESINS	Plastics and polymers	Odor test	E 01 0732
313	CHEMICAL- PLASTIC & RESINS	Plastics and polymers	Tackiness on unpainted automotive plastic components	E 00 1282
314	CHEMICAL- PLASTIC & RESINS	Plastics and Resins	Polymer Identification by FTIR	ASTM E1252
315	CHEMICAL- RUBBER & RUBBER PRODUCTS	Natural & Synthetic rubbers	Determination of solvent extract	ISO 1407 (Method A, B & C)
316	CHEMICAL- RUBBER & RUBBER PRODUCTS	Natural & Synthetic rubbers	TGA	ISO 9924-3
317	CHEMICAL- RUBBER & RUBBER PRODUCTS	Natural & Synthetic rubbers	TGA	PV 3927
318	CHEMICAL- RUBBER & RUBBER PRODUCTS	Natural and synthetic Rubber	Glass transition temperature by DSC	ISO 22768

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 472 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
319	CHEMICAL- RUBBER & RUBBER PRODUCTS	Natural and synthetic rubber	Polymer identification by FTIR	ASTM E1252
320	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & rubber products	Compositional analysis by thermogravimetry -Rubber	ASTM D 6370
321	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber & Rubber products	Fillers / Ash content	ASTM D 297, sec 35
322	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber products	Effect of liquids on rubber	ISO 1817
323	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber products	Resistance to ozone cracking	ISO 1431-1
324	CHEMICAL- RUBBER & RUBBER PRODUCTS	Rubber produts	Rubber deterioration/cracking in ozone controlled environment	ASTM D 1149
325	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	Tensile test - % Elongation	ASTM B557
326	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	Tensile test - % Reduction in area	ASTM B557
327	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	Tensile test - 0.1% proof stress	ASTM B557
328	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	Tensile Test - Ultimate tensile strength	ASTM B557
329	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium & its alloys	Tensile test- Yield stress	ASTM B557
330	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper and Aluminium	Tensile Test - % Elongation	BS EN ISO 6892-1: 2016 IS 1608: 2022 ASTM E8/E8M: 2021
331	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper and Aluminium	Tensile Test - % Reduction in Area	BS EN ISO 6892-1: 2016 IS 1608: 2022 ASTM E8/E8M: 2021
332	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper and Aluminium	Tensile Test - 0.2% Proof Stress	IS 1608: 2022, ASTM E8/E8M: 2021, BS EN ISO 6892-1: 2016
333	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Copper and Aluminium	Tensile Test - Ultimate Tensile Strength	ASTM E8/E8M: 2021 IS 1608: 2022 BS EN ISO 6892-1: 2016

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 473 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
334	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Copper and Aluminium	Tensile Test - Yield Stress	ASTM E8/E8M: 2021 IS 1608: 2022 BS EN ISO 6892-1: 2016
335	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HSD Steel Bar	Weight per Meter (Mass)	IS 1786: 2018 Work Instruction no. MS-0036432: 2018
336	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HSD Steel Bars	Tensile Test - % Elongation	IS 1786:2018
337	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HSD Steel Bars	Tensile Test - Ultimate Tensile Strength	IS 1786
338	MECHANICAL-MECHANICAL PROPERTIES OF METALS	HSD Steel Bars	Tensile Test - Yield Stress	IS 1786
339	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Painted metal / Organic coatings	Resistance of organic coatings to the effects of Rapid deformation (Impact)	ASTM D 2794
340	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Painted Metals / Metals with organic coatings	Rapid deformation (Impact resistance) tests - falling-weight test, small-area	ISO 6272-2
341	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SS & Its Alloy	Micro Vickers Hardness - HV0.5Kg	BS EN ISO 6507-1: 2018 ASTM E384: 2017 IS 1501-1: 2020
342	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SS & Its Alloy	Micro Vickers Hardness - HV1.0kg	IS 1501-1: 2020, BS EN ISO 6507-1: 2018 ASTM E384: 2017 ASTM E92: 2017
343	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SS & Its Alloy	Micro Vickers Hardness - HV5Kg	ASTM E384: 2017, BS EN ISO 6507-1: 2018 ,ASTM E92: 2017, IS 1501-1: 2020
344	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SS & Its Alloy	Rockwell Hardness - HRA	IS 1586-1: 2018 BS EN ISO 6508-1: 2016 ASTM A370: 2021
345	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SS & Its Alloy	Rockwell Hardness - HRBW	IS 1586-1: 2018 ASTM A370: 2021 BS EN ISO 6508-1: 2016
346	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SS & Its Alloy	Rockwell Hardness - HRC	IS 1586-1: 2018 BS EN ISO 6508-1: 2016 ASTM A370: 2021
347	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SS & Its Alloy	Vickers Hardness - 10kg	ASTM E92:2017, BS EN ISO 6507-1: 2018, IS 1501-1: 2020, ASTM A370: 2021

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 474 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
348	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SS & Its Alloy	Vickers Hardness - 30Kg	BS EN ISO 6507-1: 2018 ASTM E92: 2017 ASTM A370: 2021 IS 1501-1: 2020
349	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SS & Its Alloy	Vickers Hardness - HV5kg	BS EN ISO 6507-1: 2018 ASTM E92: 2017 ASTM A370: 2021 IS 1501-1: 2020: 2020
350	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SS, Cast Iron (Un-welded), & HSD Steel bars	Tensile - 0.2% Proof Stress	IS 1608, P-1: 2022 BS EN ISO 6892-1: 2016
351	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SS, Cast Iron (Welded & Un-welded) Plate, Rod Sheet	Brinell Hardness (10/3000)	IS 1500 Part 1: 2019 BS EN ISO 6506-1: 2014 ASTM E10: 2018
352	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SS, Cast Iron (Welded & Un-welded) Plate, Rod Sheet	Brinell Hardness - 2.5/187.5	IS 1500 Part 1: 2019 BS EN ISO 6506-1: 2014 ASTM E10: 2018
353	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SS, Cast Iron, HSD Steel bars (Un-welded)	Tensile-Yield stress	IS 1608, P-1: 2022 BS EN ISO 6892-1: 2016
354	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SSI, Cast Iron (Un-welded), & HSD Steel bars	Tensile - % Elongation	IS 1608, P1: 2022 BS EN ISO 6892-1: 2016
355	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SSI, Cast Iron (Un-welded), & HSD Steel bars	Tensile - % Reduction in Area	IS 1608, P1: 2022 BS EN ISO 6892-1: 2016
356	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel, SSI, Cast Iron (Un-welded), & HSD Steel bars	Tensile test -Ultimate Tensile Strength	IS 1608, P-1: 2022 BS EN ISO 6892-1: 2016
357	MECHANICAL-METALLOGRAPHY TEST	Aluminum & its alloys	Grain size (Comparison)	ASTM E112
358	MECHANICAL-METALLOGRAPHY TEST	Aluminum & its alloys	Microstructure	ASM Hand Book Vol. 9: 2004
359	MECHANICAL-METALLOGRAPHY TEST	Copper & its alloys	Grain size (Comparison)	ASTM E112
360	MECHANICAL-METALLOGRAPHY TEST	Copper & its alloys	Microstructure	ASM Hand Book Vol. 9 : 2004
361	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & alloys	Grain size (Comparison)	ASTM E112
362	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & alloys	Inclusion rating (Comparison)	ASTM E45 (Method A)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	475 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
363	MECHANICAL-METALLOGRAPHY TEST	Ferrous Metals & alloys	Microstructure	ASM Hand Book Vol. 9 : 2004
364	MECHANICAL-METALLOGRAPHY TEST	Lead & its alloys	Microstructure	ASM Hand Book Vol. 9 : 2004
365	MECHANICAL-METALLOGRAPHY TEST	Metals and alloys	Analysis of materials by Energy Dispersive Spectroscopy with a scanning electron microscope	ASTM E 1508
366	MECHANICAL-METALLOGRAPHY TEST	Metals and alloys	Scanning Electron Microscope (SEM) analysis of metallic Surface condition	ASTM F 1372
367	MECHANICAL-METALLOGRAPHY TEST	Metals and alloys	Whisker Length Growth (on Tin and Tin Alloy Surface Finishes)	JESD 22-A121A, BS EN 60068-2-82:2019
368	MECHANICAL-METALLOGRAPHY TEST	Microstructure of Gra phite in Cast iron, Form, Size & Distribution	Microstructure	IS 7754 (Comparison)
369	MECHANICAL-METALLOGRAPHY TEST	Nickel & its alloys	Microstructure	ASM Hand Book Vol. 9 : 2004
370	MECHANICAL-METALLOGRAPHY TEST	Photo voltaic Module & Metals and Alloys	Insulating Coating Thickness & Layer Thickness	ISO1463: 2021, IEC61730-2(cl.10.5): 2016, IS/IEC61730-2(cl.10.5): 2016, ASTM B487-20 ISO 9220:2022
371	MECHANICAL-METALLOGRAPHY TEST	Tin & its alloys	Microstructure	ASM Hand Book Vol. 9 : 2004
372	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Desk/Table	Durability Test for Desks and Tables with Casters	Section 18 ANSI/BIFMA X5.5
373	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Desk/Table	Separation Test for Tall Desk/Table Products with Vertically Attached or Stack Components	Section 9 ANSI/BIFMA X5.5
374	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Desk/Table	Work Surface Vertical Adjustment Test	Section 15.3 ANSI/BIFMA X5.5
375	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture - Seating - Determination of stability	Corner stability test	EN 1022 clause7.3.3
376	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Bed and Mattress	Durability of Bed Edge	Clause 7.5 EN 1725:1998
377	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Bed and Mattress	Durability test	Clause 7.3 EN 1725:1998 (

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	476 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
378	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Bed and Mattress	Vertical Impact	Clause 7.4 EN 1725:1998 (
379	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Bed and Mattress	Vertical Static load	Clause 7.6 EN 1725:1998 (
380	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Bed and Mattress	Vertical static load test of the edge of the bed	Clause 7.7 EN 1725:1998
381	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Bed and Mattress / Office Chairs / Public Seating	Stability	EN 1725:1998 (R 2010), Clause 7.1/7.2, EN 1022: 2010,EN 1022:2018 SASO 1310 PART 2 , Clause 6.2(GS 1595/2002) BS EN 14749:2016, Clause 5.4 IS 5416-2 : 1988 Clause 7 BS EN 12520: 2015 Clause 5.3 ANSI/BIFMA X5.4:2020 Clause 21 ANSI/BIFMA X5.1: 2017 Clause 11 EN 581-3:2007, Clause 6.1/6.2 IS 5967-2 : 1988, Clause 6.2 EN 1730:2012, Clause 7 EN 12521:2015,Clause 5.3 SASO 1588 PART 4 , Clause 5.3.1/5.3.3.(GS 1620/2002)
382	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic and Kitchen Storage units	General safety requirements	Clause 5.2 BS EN 14749
383	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic and Kitchen Storage units	Principles of safety requirements	Clause 5.1 BS EN 14749
384	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic and Kitchen Storage units	Structural safety requirements	Clause 5.3 BS EN 14749
385	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic and Kitchen Storage units	Wall and top hanging units	Clause 5.3:BS EN 14749
386	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Domestic and Kitchen Storage units	Stability	BS EN 14749:2016, Clause 5.4
387	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture - Seating - Determination of stability	Corner stability test	clause7.3.3: EN 1022

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	477 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
388	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Arm and wing Sideways Static Load Test	Clause 9.2 IS 5416 -: 1 : 1988 Clause 8.2 IS 12674-1
389	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Back and arm Impact Test	Clause 8.7 IS 12674-1:1989 Clause 9.7 IS 5416 -: 1
390	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Back impact test	Clause 6.25 EN 1728
391	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Backward fall test	Clause 6.28:EN 1728
392	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Combined seat and back durability test	Clause 6.17/7.3/8.4:EN 1728
393	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Drop Test	Clause 8.8 IS 12674-1:1989 Clause 6.27 EN 1728
394	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Durability test on back rest mechanism	Clause 8.5:EN 1728
395	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Edges and corners	Clause 5.1:EN 581-1
396	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Foot rest durability test	Clause 6.21/7.12: EN 1728
397	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Foot rest static load test	Clause 6.8/7.8:EN 1728
398	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Horizontal forward static load test on back rests	Clause 6.7:EN 1728
399	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Impact Test	Clause 8.8: EN 1728
400	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Leg forward static load test	Clause 6.15: EN 1728
401	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Leg rest static load test	EN 1728

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	478 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
402	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Leg sideways static load test	Clause 6.16:EN 1728
403	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Leg static Test	Clause 8.5: IS 12674-1
404	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Leg static Load Test	Clause 9.5 IS 5416 -: 1
405	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Safety, Strength and Durability for seating	EN 581-2:2015 EN 1728:2012
406	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Seat and Back Static load Test	Clause 9.1 IS 5416 -: 1
407	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Seat and back durability	Clause 7.9/8.4:EN 1728:2012 Clause 8.4: IS 12674-1
408	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Seat and Back Fatigue Test	Clause 9.4,IS 5416 -: 1
409	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Seat and Back Fatigue Test	IS 12674-1:1989, Clause 8.4
410	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Seat and Back static Load	Clause 8.1:IS 12674-1:1989, Clause 6.4/8.2: EN 1728
411	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Seat front edge durability test	Clause 6.18:EN 1728
412	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Seat Front Edge Static Load	Clause 6.5/7.4: EN 1728
413	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Seat impact test	Clause 6.24: EN 1728:2012 Clause 8.6:IS 12674-1
414	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Seat impact Test	Clause 9.6 IS 5416 -: 1
415	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Shear and squeeze points	Clause 5.3:EN 581-1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 479 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
416	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Stability Test	IS 5416-2 : 1988 Clause 7
417	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Strength Test	Clause 6.2(GS 1616/2002) :SASO 1501 PART 2
418	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Swivel Test-Cyclic	Clause 7.11: EN 1728:2012, Clause 19:ANSI/BIFMA X5.4 :2020 Clause 8: ANSI/BIFMA X5.1
419	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Tubular components, holes and gaps accessible during use	Clause 5.2: EN 581-1
420	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Vertical load on back rests	Clause 6.6
421	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Vertical upwards static load on arm rests	Clause 6.13: EN 1728
422	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Domestic Seating-Work Chair, other than work chair	Arm downward Static Load Test	Clause 9.3 IS 5416 -: 1:1988 Clause 8.3 IS 12674-1
423	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Arm Durability Test for Multiple Seating Units-Vertical-Cyclic	Clause 12: ANSI/BIFMA X5.4
424	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Arm Durability Test for Single Seating Units-Angular-Cyclic	ANSI/BIFMA X5.4 Clause 13:2020
425	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Arm Durability Test-Cyclic	Clause 20: ANSI/BIFMA X5.1
426	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Arm rest downwards static load test	Cluase 6.11 EN 1728
427	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Arm rest durability test	Cluase 6.20 EN 1728
428	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Arm rest sideways static load test	clause 6.10 EN 1728

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	480 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
429	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Arm Strength Test-Horizontal-Static	Clause 13:ANSI/BIFMA X5.1:2017 Clause 9: ANSI/BIFMA X5.4
430	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Arm Strength Test-Vertical-Static	Clause 10: BIFMA X5.4:2020 Clause 12: ANSI/BIFMA X5.1
431	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Backrest Durability Test - Cyclic - Type I	Clause 14: ANSI/BIFMA X5.1
432	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Backrest Durability Test - Cyclic - Type II and Type III	Clause 15: ANSI/BIFMA X5.1 2017 Clause 07: ANSI/BIFMA X5.4:2020
433	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Backrest Strength Test - Static - Type I and II	Clause 5: ANSI/BIFMA X5.1
434	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Backrest Strength Test - Static - Type III	Clause 6: ANSI/BIFMA X5.1 2017 Clause 5: ANSI/BIFMA X5.4
435	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Caster/Chair Base Durability Test - Cyclic	Clause 16: ANSI/BIFMA X5.1 2017 Clause 18: ANSI/BIFMA X5.4
436	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Drop Test-Dynamic	ANSI/BIFMA X5.1 Clause 7
437	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Drop Test-Dynamic	Clause 15 ANSI/BIFMA X5.4 : 2020 Clause 7 ANSI/BIFMA X5.1
438	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Leg strength Test-Front and Side Application	Clause 17: ANSI/BIFMA X5.1:2017 Clause 16: ANSI/BIFMA X5.4
439	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Seating Durability Test-Cyclic	Clause 14: ANSI/BIFMA X5.4:2020 Clause 10:ANSI/BIFMA X5.1
440	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Shear and squeeze points	Clause 5.1/5.2: BS EN 12520
441	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Strength Test	Clause 11(GS 1595/2002): SASO 1310 PART 2
442	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Strength and durability	EN 1728 (Table-1): 2012, Clause 5.4 : BS EN 12520

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 481 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
443	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Tilt / rocker / glider Mechanism Test - Cyclic	Clause 9: ANSI/BIFMA X5.1 2017 Clause 20: ANSI/BIFMA X5.4
444	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Unit Drop Test-Dynamic	Clause 17:ANSI/BIFMA X5.4
445	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Leg strength Test-Front and Side Application	ANSI/BIFMA X5.4 Clause 16
446	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Seating Durability Test-Cyclic	ANSI/BIFMA X5.1 Clause 10
447	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Stability Test	ANSI/BIFMA X5.4 Clause 21
448	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Furniture-Office Chair/public seating	Strength and durability	BS EN 12520 Clause 5.4
449	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Mattress	Durability test (cyclic)	Clause 7.1 Clause 7.2 Clause 7.3 Clause 8.1 Clause 8.2 Clause 8.3:BS EN 195
450	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Outdoor Table (Camping use, Domestic use and Contract use)	Horizontal fatigue test	Clause 6.4:EN 581-3
451	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Outdoor Table (Camping use, Domestic use and Contract use)	Vertical static load test	Clause 6.3:EN 581-3
452	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Outdoor Table (Camping use, Domestic use and Contract use)	Stability	EN 581-3:2007, Clause 6.1/6.2
453	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	PANEL SYSTEMS	Force Stability Test	Section 5.1 ANSI/BIFMA X5.6
454	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	PANEL SYSTEMS	Horizontal Surface Distributed Functional Load Tests	Section 8.2 ANSI/BIFMA X5.6
455	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	PANEL SYSTEMS	Horizontal Surface Distributed Proof Load Tests	Section 8.4 ANSI/BIFMA X5.6-
456	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	PANEL SYSTEMS	Impact Stability Test	Section 5.2 ANSI/BIFMA X5.6

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 482 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
457	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	PANEL SYSTEMS	Panel Glide Assembly Strength Test	Section 7 ANSI/BIFMA X5.6
458	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	PANEL SYSTEMS	Panel System Strength Test-Static Functional and Proof Load	Section 6.2 & 6.3 ANSI/BIFMA X5.6
459	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	PANEL SYSTEMS	Primary Surface Concentrated Functional Load Test	Section 8.1 ANSI/BIFMA X5.6
460	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	PANEL SYSTEMS	Primary Surface Concentrated Proof Load Tests	Section 8.3 ANSI/BIFMA X5.6
461	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	PANEL SYSTEMS	Top Load Ease Cycle Test (for Primary Surfaces)	Section 10.1 ANSI/BIFMA X5.6-
462	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Public Seating	Arm Durability Test for Multiple Seating Units-Horizontal-Cyclic	Clause 11: ANSI/BIFMA X5.4
463	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table	Force Stability Test for Tall Desk/Table Products	Clause4.6 ANSI/BIFMA X5.5
464	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table	Horizontal Stability Test for Desks and Tables with Casters	Clause 4.4 ANSI/BIFMA X5.5:
465	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table	Stability Under Vertical Load Tests	Clause 4.3 ANSI/BIFMA X5.5:2
466	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table	Stability-Stability with Extendible Elements Open Test	Clause 4.2 ANSI/BIFMA X5.5
467	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table	Top Load Ease Cycle Test	Clause 6 ANSI/BIFMA X5.5
468	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table	Work Surface Vertical Adjustment Test	Clause 15 ANSI/BIFMA X5.5
469	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Concentrated Functional Load & Proof load	Clause 5.2&5.4:ANSI/BIFMA X5.5:2021, Clause 5:SOHO S6.5
470	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Distributed Functional Load & Proof Load	Clause 5.3/5.5:ANSI/BIFMA X5.5:2021, , Clause 4:SOHO S6.5

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	483 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
471	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Drop Cycle Test for Horizontally Hinged and Horizontally Receding Doors	Clause 17.11:ANSI/BIFMA X5.5
472	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Drop Test	Clause 5.2.5(GS 1620/2002): SASO 1588 PART 4 , 2002, Clause 6.4: IS 5967 -1: 1988, Clause 7,ANSI/BIFMA X5.5:2021, Clause 10:SOHO S6.5 (2013), , Clause 6.9:,EN 1730
473	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Extendible Element Static Load	Clause 5.7:ANSI/BIFMA X5.5
474	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Fatigue Test	Clause 6.6:IS 5967-1 : 1988, Clause 5.2.6(GS 1620/2002):SASO 1588 PART 4
475	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Hinge Override Test for Vertically-Hinged Doors	Clause 17.4ANSI/BIFMA X5.5
476	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Horizontal durability and stiffness test	Clause 6.4 EN 1730
477	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Horizontal Static Load Test	Clause 5.2.3(GS 1620/2002): SASO 1588 PART 4 , Clause 6.5: 1:IS 5967 -1
478	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Horizontal static load test	Clause 6.1/6.2 EN 1730
479	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Horizontally Receding Doors Strength Test	Clause 17.4: ANSI/BIFMA X5.5
480	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Horizontally Receding Doors Strength Test	Clause 17:SOHO S6.5
481	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Leg Strength	Clause 8:,ANSI/BIFMA X5.5:2021, Clause 7:SOHO S6.5
482	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Pull Force Test	Clause 19:ANSI/BIFMA X5.5:2021, , Clause 20:SOHO S6.5

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	484 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
483	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Shear and squeeze points	Clause 5.1/5.2:EN 12521
484	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Strength and durability requirement	Clause 6 (Table-2) : EN 12521
485	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Strength and durability requirement	EN 1730
486	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Strength Test for Vertically-Hinged Doors, Bi-folded Doors, and Vertically Receding Doors	Clause 17.2:ANSI/BIFMA X5.5
487	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Sustained Load Test	Clause 6.2:IS 5967-1 : 1988, Clause 5.2.2 (GS 1620/2002):SASO 1588 PART 4
488	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Vertical durability test	Clause 6.5 EN 1730
489	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Vertical Impact Test	Clause 5.2.4(GS 1620/2002):SASO 1588 PART 4 , 2002, Clause 6.6:EN 1730
490	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Vertical static Load Test	Clause 6.1:IS 5967-1 : 1988, Clause 5.2.1(GS 1620/2002) :SASO 1588 PART 4
491	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Vertical static load tests	Clause 6.3 EN 1730
492	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Wear and Fatigue Test for Hinged, Horizontal Sliding and Tabour Doors	Clause 17.7: ANSI/BIFMA X5.5
493	MECHANICAL-PERFORMANCE/DURABILITY/ SAFETY TEST	Storage Furniture-Desk/Table and Small office & Home office furniture	Leg Strength	SOHO S6.5 (2013), Clause 7
494	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Automotive components	Bond strength of trim assemblies	FLTM BN 113-01
495	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Flexible & rigid foams	Compression stress strain characteristics-Flexible cellular material	ISO 3386-1
496	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic products	Flexural modulus	ASTM D 790

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	485 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
497	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic & Plastic products	Flexural strength	ASTM D 790
498	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	plastic & plastic products	Resistance to Abrasion	SAE J 948 (Taber method)
499	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic & plastic products	Tensile modulus	ASTM D 638
500	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic & polymeric products	Determination of Gloss	ISO 2813
501	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic & Polymeric products	Grey scale for assessing change in colour	ISO 105-A02
502	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic and plastic products	Determination of water absorption	ISO 62
503	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic and plastic products	Peel adhesion of pressure - sensitive Tape	ASTM D 3330/D3330M-04
504	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic and plastic products	Resistance to scratch	D 45 1047
505	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic and plastic products	Scratch resistance test	E 00 1281
506	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic and plastic products	Shore D hardness	ISO 48-4
507	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic mateirals & products	Peel adhesion (90deg)	ASTM D 6252
508	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Ball drop test	PV 3905
509	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Compressive properties of plastics	ISO 604
510	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	plastic materials & products	Compressive properties of rigid plastics	ASTM D 695
511	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & Products	Crocking	FLTM BN 107-01
512	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Crocking test	ISO 105-X12
513	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & Products	Crocking test	MS 652-12
514	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Density	ASTM D 792 (Method A)
515	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Density	ISO 1183-1 (Method A)

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 486 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
516	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Density	ISO 2781, Method A
517	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	plastic materials & products	Flexural Modulus	ISO 178
518	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	plastic materials & products	Flexural Strength	ISO 178
519	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	plastic materials & products	Heat deflection temperature (HDT)	ASTM D 648, method B
520	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & Products	Heat Deflection Temperature (HDT)	ISO 75-2
521	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Mar resistance test	PV 3974
522	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & Products	Melt Flow Index	ASTM D 1238, procedure B
523	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	plastic materials & products	Melt Flow Index	ISO 1133-1
524	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Peeling strength of adhesive (180deg)	ASTM D 903
525	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Scratch resistance test	PV 3952
526	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	plastic materials & Products	Soiling & Cleavability	FLTM BN 112-08
527	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Specific gravity	ASTM D 792 (Method A)
528	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	plastic materials & products	stone chipping test	ASTM D 3170 M14
529	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Stone chipping test	SAE J 400
530	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & products	Stress whitening test	PV 3966
531	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & Products	Tensile Modulus	ISO 527 - 2
532	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	plastic materials & products	Vicat softening point	ASTM D 1525
533	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic materials & Products	Vicat Softening Point	ISO 306
534	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	polymer products	Color measurement (l, a, b)	ASTM D 2244

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	487 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
535	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	polymer products	Elongation @ break	ASTM D 638
536	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer products	Elongation @ break	ISO 527 - 2
537	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer products	Gloss measurement	ASTM D 523
538	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	polymer products	Hardness, Shore-D	ASTM D 2240
539	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer products	Hardness, Shore-D	ISO 868
540	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	polymer products	Paints & varnishes cross cut test	ISO 2409
541	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer products	Rating adhesion by tape test	ASTM D 3359
542	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer products	Tensile Strength	ASTM D 638
543	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Polymer products	Tensile Strength	ISo 527-2
544	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural & synthetic rubbers	Compression set (Ambient/Elevated temperature	ISO 815-1
545	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubber & products	Elongation @ break	ASTM D 412, Method A
546	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubber & products	Elongation @ break	ISO 37
547	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubber & products	Tear Strength	ASTM D 624
548	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubber & products	Tear strength	ISO 34-1
549	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubber & products	Tensile strength	ASTM D 412, Method A
550	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubber & products	Tensile strength	ISO 37
551	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubbers	Abrasion resistance	E 01 1344
552	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubbers	Compression set (Low temperature)	ISO 815-2, method 1

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 488 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
553	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubbers	Elongation	DIN 53504
554	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubbers	Hardness, Shore -A	ASTM D 2240
555	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubbers	Rubber properties in compression	ASTM D 575
556	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubbers	Rubber-compression set	ASTM D 395, Method B
557	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubbers	Shore A hardness	ISO 48-4
558	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubbers	Tear Strength	ISO 34-2
559	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubbers	Tensile strength	DIN 53504
560	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and synthetic rubbers	Tension Set	ISO 2285
561	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber & rubber products	Tension set	ASTM D 412 , Method A
562	MECHANICAL- THERMAL TESTS	Metal & Non-Metal	Cold ageing test	IEC 60068-2-1
563	MECHANICAL- THERMAL TESTS	Metal & Non-metal	Dry heat ageing test	IEC 60068-2-2
564	MECHANICAL- THERMAL TESTS	Metal & Non-metals	Damp Heat test - Cyclic	IEC 60068-2-30
565	MECHANICAL- THERMAL TESTS	Metal and Non-Metals	Damp Heat Test	IEC 60068-2-78
566	MECHANICAL- THERMAL TESTS	Metals and Non-Metals	Composite temperature / Humidity cyclic test	IEC 60068-2-38
567	MECHANICAL- THERMAL TESTS	Metals and Non-metals	Thermal Shock / cyclic test	IEC 60068-2-14, Cl 7 & 8, method Na and Nb
568	MECHANICAL- THERMAL TESTS	Plastic & Rubber products	Rubber deterioration (change in property) in air oven	ASTM D 573
569	MECHANICAL- THERMAL TESTS	polymer & Rubber products	Heat ageing test	ISO 188
570	MECHANICAL- THERMAL TESTS	Polymer products	Burning Behavior	TL 1010
571	MECHANICAL- THERMAL TESTS	Polymer products	Burning behavior /Flammability	FM VSS 302

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	489 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
572	MECHANICAL- THERMAL TESTS	Polymer products	Burning behavior /Flammability	ISO 3795
573	MECHANICAL- THERMAL TESTS	Polymer products	Environmental cycle	FLTM BQ 104-07
574	MECHANICAL- THERMAL TESTS	Polymer products	Environmental Testing	WSS M15P4E
575	MECHANICAL- THERMAL TESTS	Polymer products	Flammability test	E- 00-1349
576	MECHANICAL- THERMAL TESTS	Polymer products	Flammability test	IS 15061
577	MECHANICAL- THERMAL TESTS	Polymer products	Flammability test	SAE J 369
578	MECHANICAL- THERMAL TESTS	Polymer products	Heat ageing Resistance	MS 210-05 Cl 4.4
579	MECHANICAL- THERMAL TESTS	polymer products	Heat cycle resistance test	MS 210-06 Cl.4.3
580	MECHANICAL- THERMAL TESTS	Polymer products	Resistance to environmental cycling	FLTM BQ 104-07
581	MECHANICAL- THERMAL TESTS	Polymer products	Resistance to environmental cycling	PV 1200
582	MECHANICAL- THERMAL TESTS	Polymer products	Resistance to environmental cycling	PV 2005,Variant A
583	MECHANICAL- THERMAL TESTS	Polymer products	Thermal Cycle Test	TSM 0502G,Clause 4.1.3
584	MECHANICAL- THERMAL TESTS	Polymer products	Thermal shock testing	ES 94100-05, Cl 3.3

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 490 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
LOCATION 4 - TÜV RHEINLAND (INDIA) PVT. LTD. 108 , BESIDE ISBR BUSINESS SCHOOL, ELECTRONIC CITY PHASE I BANGALORE - 560 100, INDIA., BENGALURU, KARNATAKA, INDIA Permanent Facility				
1	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical and Non-Electrical Products	Sinusoidal Vibration test	IEC 60068-2-6 : 2007 EN 60068-2-6 : 2008
2	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	"Automotive Transients immunity coupling via lines other than supply Lines "	"ISO 7637-3:2016 CCC-Clause 4.5 DCC-Clause 4.6 ICC- Clause 4.7 TST/TS/WI/257 Issue 07: 2016 (Cl 3.2.2)"
3	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	"Conducted Emission Test (-160dBm to 30dBm)"	TST/TS/WI/257 Issue 07:2016 (Cl. 3.1.2, Cl. 3.1.3) ES96200-00:2017 (Cl. 6.2.2 & 6.2.3)
4	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Automotive Transient Emission from supply lines	"ECE R-10 Rev.06 :2019 (Cl. 7.17) Directive 2004/104/EC (Cl. 6.9)"
5	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Automotive Transient Emission from supply lines	"ISO 7637-2: 2011(Cl. 4.3) AIS-004 (Part 3): 2009+A1:2015 (Cl. 5.9)"
6	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Automotive Transient Immunity on supply lines	"EN 301 489-1:2019 (Cl. 9.6) TST/TS/WI/257 Issue 07: 2016 (Cl 3.2.1) ECE R-10 Rev.06:2019 (Cl. 7.19)"
7	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Automotive Transient Immunity on supply lines	AIS-004 (Part 3):2009 +A1:2015 (Cl. 5.8)
8	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Automotive Transient Immunity on supply lines	ISO 7637-2: 2011(Cl. 5.6)
9	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Automotive Transient Immunity on supply lines	JASO_D001-94 -Withdrawn (Cl. 5.7)
10	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Automotive Transient Immunity on supply lines	SAE J1113-11: 2018 (Cl. 5)
11	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Conducted RF Immunity Test	"Directive 95/54/EC: 2004 Directive 2004 /104/EC: 2004 SAE J1113-4: 2004 ISO 11452-4: 2011 ECE R-10 Rev.06:2019"
12	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Conducted RF Immunity Test	AIS-004 (Part 3):2009+A1:2015 (Cl. 5.7.2)
13	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Conducted RF Immunity Test	ISO 11452-4: 2020

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 491 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
14	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Conducted RF Immunity Test	SAE J1113-4: 2020
15	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	DC Dips and micro interruptions	ISO 16750-2 : 2012 (Cl. 4.5; 4.6)
16	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Electrical Fast Transient (EFT) / Burst Immunity Test (Power Line & Signal Line)	ECE R-10 Rev.06:2019 (Cl. 5)
17	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Electrostatic Discharge Immunity Test	EN 301 489- 1:V2.2.3 2019 (Cl. 9.3)
18	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Harmonic Current Emission Test	ECE R-10 Rev.06:2019 (Cl.)
19	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	High Energy / Telecom Surge Immunity Test	ECE R-10 Rev.06:2019 (Cl. 5)
20	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Measurement of magnetic field radiated emissions	"MIL-STD 461 E: 2007 SAE J1113-22: 2003 TL 81000 (Clause 5.3.9): 2018 ES96200-00:2017 (Cl. 6.2.2 & 6.2.3) 36-00-808 N (Clause 6.7.2): 2016"
21	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Radiated emissions from components/modules – Stripline method	"CISPR 25:2021 EN IEC 55025: 2022 TL 81000 (Clause 5.3.7): 2018"
22	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	RF Radiated Susceptibility – Immunity to magnetic fields Radiating loop method	"ES96200-00:2017 (Cl.5.3) SAE J1113-22:2010 (Cl. 6)"
23	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	RF Radiated Susceptibility Immunity to Portable Transmitte	"TL 81000: (Clause: 5.2.5): 2018 TST/TS/WI/257 Issue 07 (Clause 3.4.4): 2016 ES96200-00:2017 SAE J1113-22: 2003 36-00-808 N: (Clause 6.5): 2016 36-00-808 M: (Clause 6.5): 2012 36-00-808 L (Clause 6.5): 2010 ISO 11452-9: 2012"
24	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	RF Radiated Susceptibility –Strip line method	"ECE R-10 Rev.06:2019 (Cl. 4.4) AIS-004 (Part 3):2009 +A1:2015 ISO11452-5: 2002 95/54/EC Directive : 1995 2004/104/EC Directive Annexure 9: 2004"
25	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	RF Radiated Susceptibility –Strip line method	"ECE R-10 Rev.06:2019 (Cl. 4.4) TL 81000 (Clause: 5.2.4): 2018"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 492 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
26	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Voltage Fluctuation & Flicker Test	Annex 12 ECE R-10 Rev 05 : 2014
27	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Voltage Fluctuation & Flicker Test	"IEC 61800-3 (Clause 6.2.4): 2017 ECE R-10 Rev.06:2019"
28	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	"Conducted Emission Test (-160dBm to 30dBm)"	ECE R-10 Rev.06:2019 (Annex 19)
29	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Automotive Transient Immunity on supply lines	"EN/IEC 60601-1-2:2014+A1:2020 (8.9) Directive 2004/104/EC:2004 (Cl. 6.8)"
30	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Electrostatic Discharge Immunity Test	ISO 10605:2008+A1:2014 (Cl. 8) SAE J1113-13: 2015 (Cl. 4)
31	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Measurement of Radiated Immunity	"SAE J1113-21: 2013 ISO 11452 -2: 2019 ISO 11452 -1: 2015 IEC 60945 (Clause No.10): 2002
32	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Radiated Emission Test	"AIS-004 (Part 3):2009 +A1:2015 ECE R-10 Rev.06:2019 Directive 2004/104/EC: 2014 Directive 95/54/EC: 2005 CISPR 25:2021 SAE J1113-41: 2000"
33	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	Radiated Susceptibility Test	"Directive 2004/104/EC : 2017 (Annex 4 and 10) Directive 95/54/EC : 2017 (Annex 6, Annex 9) ISO 11451-1:2005 +A1: 2008"
34	ELECTRONICS- EMC TEST FACILITY	Automotive Vehicle and Electronic Sub Assembly (ESA)	RF Radiated Susceptibility – Immunity to magnetic fields Radiating loop method	"ISO 11452-8 (Clause 7.4): 2015 ES96200: 2018 36-00-808 L (Clause 6.3.2): 2010 36-00-808 M (Clause 6.3.2): 2012 36-00-808 N: (Clause 6.3.2): 2016 TL 81000: (Clause: 5.2.6): 2018
35	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Equipments	Conducted RF Immunity Test	EN 61800-3 (Clause 5.3)
36	ELECTRONICS- EMC TEST FACILITY	Electrical / Electronic Product	Harmonics and inter harmonics including mains signaling at a.c. power port, low frequency immunity tests	IEC 61000-4-13:2002+AMD1:2009 +AMD2:: 2015 EN 61000-4-13:2002+A2:2016

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 493 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
37	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Electrical Fast Transient (EFT) / Burst Immunity Test (Power Line & Signal Line)	"IEC 60730-1: 2013 +A1: 2015+A2 (Clause H 26): 2020 EN 60730-1:2016+A1 (Clause H 26) : 2019 IEC 60730-2-9 : 2015+A1: 2018+ A2 (Clause H 26): 2020 clause 23 & 26:2020 IEC 61800-3:2017 EN IEC 61800-3:2018 (Clause 5.3) EN 50121-5:2017+A1:2019 Clause No.6 IEC 61439-1:2020 (Clause J.10.12.1): EN IEC 61439-1:2021 EN 61131-2: 2007 IEC 61131-2: 2017 (Clause 7.3.1):2017 IEC 60255-1: 2009 EN 60255-1: 2010 IEC 60255-26: 2013(CL 6)
38	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Click test	"IEC 61000-6-3: 2020 (Cl. 11) EN IEC 61000-6-3: 2021(Cl. 11) IEC 61000-6-4:2018 (Cl. 9) EN IEC 61000-6-4:2019(Cl. 9) CISPR 14-1:2020 (Cl. 4.4) EN/IEC 55014-1:2021(Cl. 4.4) IS 6873 (Part 2/Sec I): 2019 (Cl. 4.4)"
39	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Click test	EN 60730-1:2016+A1:2019+A2:2022(Cl. 23) IEC 60730-1: 2013 +A1: 2015+ A2:2020(Cl. 23) IEC 60730-2-9:2015+A1:2018+ A2:2020 (Cl. 23) EN/IEC 60730-2-9:2019+A2:2022(Cl. 23)
40	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Conducted Emission Test	EN 55011:2016+A2:2021 / CISPR 11:2015+A1:2016 +A2: 2019 / FCC (Part 18) : 2022 (Clause 18.307) / FCC Part 15 Subpart B: 2022 (15.107) / CISPR 15:2018 (Cl. 4) / EN IEC 55015:2019+A11:2020 (Cl. 4) / IS 16102 Part 2: 2017 (Cl. 8.4.1) / CISPR 32: 2015+A 1:2019 (Clause A.3) / EN 55032:2015+A1: 2020 CISPR 14-1 : 2020 (Cl. 4.3) / EN IEC 55014-1:2021 (Cl. 4.3)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	494 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
41	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Conducted Emission Test (-160dBm to 30dBm)	"EN 50155:2021 (Cl.4.4.6) EN 50121-3-2:2016+A1:2019 (Cl. 7) EN 50121-4:2016+A1:2019 (Cl. 5) EN 50121-5:2017+A1:2019(Cl.5.2) IEC 60255-26: 2013 (Cl. 5) IEC 61131-2: 2017 Cl. 7.2) MIL 461E: 2017 (Cl. 5.5) MIL 461F: 2017 (Cl. 5.5) IEC 60945: 2002 (Cl. 9) EN 60945:2002 (Cl. 9) ICES 001 issue 5 : 2020 IEC 60255-1: 2009 (Cl. 7.14) EN 60255-1: 2010 (Cl. 7.14) IEC 61439-1:2020 (Cl. Cl. J.10.12.3) EN IEC 61439-1:2021 (Cl. J.10.12.3) IEC 62236-3-2:2018 (Cl. 7) IEC 60571: 2012 (Cl.12.2.9.2) "
42	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Conducted Emission Test (-160dBm to 30dBm)	"EN 60730-1:2016+A1:2019 (Cl. 23) IEC 60730-1:2013+ AMD1:2015 +AMD2: 2020 (Cl. 23) IEC 60730-2-9:2015+A1:2018+ A2: 2020 (Cl. 23)` IEC 61851-21-2:2018 (Cl. 6.3) IEC 61800-3:2017 (Cl. 6) EN IEC 61800-3:2018 (Cl. 6) ": 2018 IEC 60092-504 (Cl 5)
43	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Conducted Emission Test (-160dBm to 30dBm)	"IEC 61000-6-3:2020 (Cl. 11) EN IEC 61000-6-3:2021 (Cl. 11) IEC 61000-6-4:2018 (Cl. 9) EN IEC 61000-6-4: 2019 (Cl. 9) EN 60669-2-1: 2004 + A12: 2010 IEC 60669-2-1: 2021 (Cl. 26) "EN 60669-1: 2018 (Cl. 26) IEC 60669-1: 2017 (Cl.26)"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	495 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
44	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Conducted Emission Test (-160dBm to 30dBm)	"IEC 61326-2-1 : 2020 (Cl. 7) EN 61326-2-1:2021 (Cl. 7) IEC 61326-2-2 : 2020 (Cl. 7) EN 61326-2-2:2021 (Cl. 7) EN IEC 61326-2-3:2021 (Cl. 7) IEC 61326-2-3:2020 (Cl. 7) EN IEC 61326-2-4:2021(Cl. 7) IEC 61326-2-4:2020(Cl. 7) EN IEC 61326-2-5:2021(Cl. 7) IEC 61326-2-5:2020 (Cl. 7) EN IEC 61326-2-6:2021(Cl. 7) IEC 61326-2-6:2020 (Cl. 7) EN IEC 61326-1:2021 (Cl. 7) IEC 61326-1:2020 (Cl. 7) "
45	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Conducted Emission Test (-160dBm to 30dBm)	"IS 15040 : 2020 IS 6873(Part 2/ Sec I):2019(Clause 4.1.1): IS 6873 (Part 3): 2015 (Clause 5.3) IS 6873 (Part 4) : 1999 IS 6873 (Part 5): 2019 IS/CISPR 32:2015 EN 300 386 V2.1.1:2016(Cl 7.1) ETSI EN 300 386 V2.2.1:2022 (Cl 7.1) EN 301 489-1 V2.2.3: 2019 (Clause 8.3. 8.4 and 8.7) ICES 003 Issue 7: 2020 IEC 62040-2:2016 (Cl. 5.3.2): EN IEC 62040-2:2018 (Cl. 5.3.2) IS 16242 (Part 2): 2020
46	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Conducted RF Immunity Test	"CISPR 14-2: 2020 (Clause 5.3&5.4) EN 55014-2 : 2021: 2021 IEC 61000-4-6: 2013 EN 61000-4-6: 2014 IS 14700 (Part 4 /Sec VI): 2016"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	496 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
47	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Conducted RF Immunity Test	"IEC 60730-2-9 : 2015+A1: 2018+ A2:2020 (Clause 12 & clause H 26,27) IEC 60730-1: 2013 +A1: 2015+ A2:2020 (Clause 24,H24,h 12, H 26,Annex J) EN 60730-1:2016+A1:2019 (Cl, H 26) IEC 60255-26: 2013 EN 60255-26:2013 EN 60255-1: 2010 IEC 60255-1: 2009 IEC 61439-1: 2020 clause 3.1.1 EN 61439-1: 2021 EN 61800-3:2018 clause 3.1 IEC 61800-3:2017: 2017 ETSI EN 300 386 2.1.1:2016 (Cl 5.4) ETSI EN 300 386 V2.2.1 : 2020 EN 301 489-1:2019 (Cl. 9.5)"
48	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Conducted RF Immunity Test	"IEC 60730-2-9 : 2015+A1: 2018+ A2:2020 (Clause 12 & clause H 26,27) IEC 60730-1: 2013 +A1: 2015+ A2:2020 (Clause 24,H24,h 12, H 26,Annex J) EN 60730-1:2016+A1:2019 (Cl, H 26) IEC 60255-26: 2013 (Cl 7.2) EN 60255-26:2013(Cl 7.2) EN 60255-1: 2010 IEC 60255-1: 2009 IEC 61439-1: 2020 (CL 9.4) EN IEC 61439-1: 2021(CL 9.4) EN 61800-3:2018 (CL 5) IEC 61800-3:2017 (CL 5) ETSI EN 300 386 2.1.1:2016 (Cl 5.4) ETSI EN 300 386 V2.2.1 : 2020 EN 301 489-1:V2.2.3 2019 (Cl. 9.5)"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	497 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
49	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Conducted RF Immunity Test	"IEC 61326-1:2020 (Clause 6) EN IEC 61326-1:2021(Clause 6): EN IEC 61326-2-3 : 2021 (Clause 6) IEC 61326-2-3 : 2020 (Clause 6) EN 61326-2-5 : 2021 (Clause 6) IEC 61326-2-5 : 2020 (Clause 6) EN 61326-2-4 : 2021(Clause 6) IEC 61326-2-4: 2020 (Clause 6) IEC 61326-2-6: 2020 (Clause 6) EN IEC 61326-2-6:2021 (Clause 6) EN 61326-2-2 : 2021 (Clause 6) IEC 61326-2-2 : 2020 (Clause 6) IEC 61326-2-1 : 2020 (Clause 6) EN 61326-2-1 : 2021(Clause 6) EN 50155:2021 clause 1,2,3,4,5,9, 11,13 EN 50121-4:2016+A1
50	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Conducted RF Immunity Test	"IEC 62236-3-2: 2018 EN 62236-3-2 : EN 50121-5:2017+A1:2019 clause 1,2,3 EN 50155:2021 (Clause 8) IEC 61131-2:2017 (CL 7.3) EN 61131-2: 2007(CL 7.3) IEC 60571: 2012 EN 50121-3-2:2016+A1:2019 IEC 60092-504 (Clause 5.2, table 1): 2016 IEC 61547: 2020 IEC 61547 : 2020 BS EN 61547 : 2020 IEC 60669-2-1:2021 (CL.26) EN 60669-2-1: 2004 Amd. 12: 2010 (CL.26) EN 60945: 2002 (CL 10.3) IEC 60945: 2002(CL 10.3)
51	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Conducted RF Immunity Test	MIL 461F : 2017 (CS 114)
52	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	DC Dips and Micro Short Interruptions	"EN 61000-4-29: 2000 IEC 61000-4-29: 2000 IEC 60255-26: 2013 (Cl. 7.2) EN 60255-26:2013 (Cl. 7.2)": IEC 61326-3-1:2017 (Clause 7)

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	498 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
53	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Electrical Fast Transient (EFT) / Burst Immunity Test (Power Line & Signal Line)	"CISPR 14-2 (Clause 5.2): 2020 EN IEC 55014-2:2021 Clause 5.2: 2021 ETSI EN 300 386 V2.1.1: 2016 ETSI EN 300 386 V2.2.1 : 2022 ETSI EN 301 489-1:2019 (Cl. 9.4) EN 60669-2-1: 2004 Amd. 12: 2010 IEC 60669-2-1:2021: 2021 IEC 62040-2:2016 (Cl. 6.3) EN IEC 62040-2:2018 (Cl.6.3) IS 16242 (Part 2): 2014"
54	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Electrical Fast Transient (EFT) / Burst Immunity Test (Power Line & Signal Line)	"EN IEC 61326-1:2021 (Cl. 6.2) IEC 61326-1:2020 (Cl. 6.2) IEC 61326-2-1: 2020(Clause 6) EN IEC 61326-2-1:2021: 2021 IEC 61326-2-2: 2020 (Clause No.6) EN IEC 61326-2-2:2021: 2021 EN IEC 61326-2-3:2021 IEC 61326-2-3:2020 (Clause No.6) IEC 61326-2-4:2020 (Clause No.6) EN IEC 61326-2-4:2021 IEC 61326-2-5 (Clause 6): 2020 EN IEC 61326-2-5:2021: 2021 IEC 61326-2-6 (Clause 6.2): 2020 EN IEC 61326-2-6:2021 IEC 61547: (Clause No.5.5): 2020 EN 61547 (Clause No. 5.5): 2011 IEC 62236-3-2 (Clause 8): : 2018
55	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Electrical Fast Transient (EFT) / Burst Immunity Test (Power Line & Signal Line)	"IEC 60571: 2012 Clause 12.2.8.3 EN 60945: 2002 IEC 60945: 2002 Clause 10: 2002 EN 50155 Clause No. 13.4.8 EN 50155:2021: 2021 EN 50121-3-2:2016+A1 Clause No. 8: 2019 EN 50121-4:2016+A1 Clause No.6.2: 2019 IEC 60092-504:2016 (Clause 5.2, table 1 ECE R-10 Rev.06: 2019"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	499 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
56	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Electrostatic Discharge Immunity Test	"EN 60945: 2002 IEC 60945: 2002 IEC 60571: 2012 EN 50121-3-2:2016+A1:2019 (Clause No. 8) EN 50121-4:2016+A1:2019 (Clause No.6.2) EN 50121-5:2017+A1:2019 (Clause No.6) IEC 61131-2:2017 EN 61131-2: 2007 IEC 60255-26: 2013 EN 60255-26: 2013 EN 60255-1: 2010 IEC 60255-1:2009 EN 50155:2021 (Clause No. 13.4.8) IEC 61800-3:2017 (Clasue 5.3) EN IEC 61800-3:2018 (Clasue 5.3)"
57	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Electrostatic Discharge Immunity Test	"IEC 60730-1: 2013+A1:2015+ A2:2020 (Clause H 26) EN 60730-1 : 2016+A1:2019 (Clause H 26) IEC 60730-2-9 : 2015+A1: 2018+ A2 :2020(Clause H 26) EN IEC 60730-2-9 : 2019+A2: 2020 (Clause H 26) IEC 60092-504: 2016(Clause 5.2) ETSI EN 300 386 V2.1.1: 2016 (Cl. 7.2) ETSI EN 300 386 V2.2.1 : 2022(Cl. 7.2) EN 301 489-1 V2.2.3:2019 (Cl. 9.3) IEC 62040-2:2016 (cl. 6.3) EN 62040-2:2018 (Cl. 6.3) IS 16242 (Part 2): 2014
58	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Electrostatic Discharge Immunity Test	"IEC 61000-4-2: 2008 EN 61000-4-2: 2009 IS 14700 (Part 4/ Sec II) (Clause 5): 2018 CISPR 14-2 (Clause 5.1): 2020 EN IEC 55014-2 : 2021 IEC 61000-6-1: 2016 EN IEC 61000-6-1:2019 (Clause 9) IEC 61547 (clause No. 5.2): 2020 EN 61547 (Clause No. 5.2): 2009 IEC 61000-6-2: 2016(Cl. 9) EN 61000-6-2 : 2019(Cl. 9) EN 55035:2017+A11:2020 (Cl. 4.2.1) CISPR 35:2016 (Clause No. 4.2.1) EN 60669-2-1:2004+A.12: 2010 (Cl.26.1) IEC 60669-2-1:2021 (Cl. 26.2)"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	500 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
59	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Electrostatic Discharge Immunity Test	"IEC 61326-1: 2020 EN IEC 61326-1: 2021 IEC 61326-2-1: 2020 EN IEC 61326-2-1: 2021 EN IEC 61326-2-2: 2021 IEC 61326-2-2: 2020 IEC 61326-2-3 : 2020 EN IEC 61326-2-3 : 2021 IEC 61326-2-4 (Clause 6): 2020 EN IEC 61326-2-4 (Clause 6): 2021 IEC 61326-2-5 : 2020 EN IEC 61326-2-5 : 2021 IEC 61326-2-6: 2020 EN IEC 61326-2-6:2021 (Clause 6 IEC 61439-1:2020 (Clause J.10.12.1) EN 61439-1:2021 (Clause J.10.12.1) IEC 62236-3-2:2018 (Clause 8)": IEC 61326-3-1:2017 (Clause 7)
60	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Harmonic Current Emission Test	"EN 61000-3-12: 2011 IEC 61000-3-12:2011+A1:2021 (table 5 & annex A) IEC 61000-3-2:2018+A1:2020 (clause 7.4.3) EN IEC 61000-3-2: 2019 IS 14700 (Part 3/Sec II): (Clause 7): 2020 IS 16102-2: 2020"
61	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Harmonic Current Emission Test	"IEC 60730-1:2013+ A1:2015+ A2:2020 (Cl. 23) EN 60730-1:2016+A1:2019 (Clause 23) IEC 60730-2-9 : 2015+A1: 2018+ A2:2020 (Cl. 12) EN 61800-3:2018 (Cl. 3.1) IEC 61800-3:2017 (Cl. 3.1) ECE-R10 Rev 4.0 : 2012 EN 60669-2-1: 2004,A.12: 2010 (CL 26.2) IEC 60669-2-1:2021 (CL 26.3) IEC 61851-21-2: 2018(Cl 5.3.2) EN 61851-21-2: 2021(Cl 5.3.2

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	501 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
62	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Harmonic Current Emission Test	"IEC 61326-1 (Clause 6): 2020 EN IEC 61326-1:2021 IEC 61326-2-1 (Clause 7): 2020 EN IEC 61326-2-1:2021 IEC 61326-2-2:2020(Clause 7) EN IEC 61326-2-2:2021 IEC 61326-2-3: (Clause 7) : 2020 EN IEC 61326-2-3:2021 IEC 61326-2-4: (Clause 7): 2020 EN IEC 61326-2-4:2021 IEC 61326-2-5 (Clause 7) : 2020 EN IEC 61326-2-5:2021 IEC 61326-2-6 (Clause 7) : 2020 EN IEC 61326-2-6:2021"
63	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Harmonic Current Emission Test	"IS 16242 (Part 2) : 2020 (Cl. 6.4.5) EN IEC 62040-2:2018 (Cl.No. 5.3) IEC 62040-2:2016 (Cl.No. 5.3) ETSI EN 300 386 V2.1.1 : 2016 ETSI EN 300 386 V2.2.1 : 2022 EN 301 489-1 V2.2.3:2019 (Cl. 8.5)"
64	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Harmonics and inter harmonics including mains signaling at a.c. power port, low frequency immunity tests	"IEC 61000-4-13:2002+A1:2009 +A2: 2015 (Cl. 5.1) EN 61000-4-13:2002+A2:2016: 2016 (Cl. 5.1)"
65	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	High Energy / Telecom Surge Immunity Test	"EN 61000-4-5: 2014 + A1: 2017 IEC 61000-4-5: 2014 + A1: 2017 IS 14700 (Part 4 /Sec V): : 2019 EN 61000-6-1 : 2019 (Clause 8) IEC 61000-6-1: : 2016 (Clause 8) CISPR 14-2:2020(Clause 5.6) EN IEC 55014-2:2021(Clause 5.6) IEC 61547:2020 (Clause 5.7) EN 61547:2009(Clause 5.7) IEC 60730-1: 2013 +A1: 2015+A2:2020 (Clause H 26) EN 60730-1:2016+A1:2019 (Clause H 26) IEC 60092-504:2016 (Clause 5.2)"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	502 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
66	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	High Energy / Telecom Surge Immunity Test	"EN IEC 61000-6-2:2019 (Cl. 9) IEC 61000-6-2:2016 (Cl. 9) EN 55035:2017+A11 2020 (Cl. 4.2.5) CISPR 35:2016 (Cl. 4.2.5) IEC 61326-1:2020(Clause 6) EN IEC 61326-1:2021 IEC 60255-26: 2013 EN 60255-26:2013 IEC 60255-1:2009 EN 60255-1:2010 EN 60945:2002 Clause 10.6 IEC 60945:2002 Clause 10.6 IEC 60571: 2012 Clause 5.4 EN 50155:2021 EN 60669-2-1: 2004 Amd. 12:2010 IEC 60669-2-1: 2021 Clause 19.106": 2021 IEC 61326-3-1:2017 (Clause 7)
67	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	High Energy / Telecom Surge Immunity Test	"ETSI EN 301 489-1:2019 V2.2.3 (Cl.9.8) ETSI EN 300 386 V2.2.1 : 2022(Cl. 7.2) ETSI EN 300 386 V 2.1.1:2016 (Cl. 7.2) IEC 62040-2 2016 (Cl. 6.3) EN 62040-2 : 2018(Cl. 6.3) IS 16242 (Part 2): : 2014"
68	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	High Energy / Telecom Surge Immunity Test	"IEC 61131-2:2017 (Clause 7.3.1) EN 61131-2:2007 (Clause 7.3.1) IEC 62236-3-2:2018 (Clause 8) EN 50121-5:2017+A1: 2019 (Clause 6) EN 50121-4:2016+A1:2019 (Clause No.6) EN 50121-3-2:2016+A1:2019 (Clause 8) IEC 61439-1:2020(Clause J.10.12.1) EN IEC 61439-1:2021(Clause J.10.12.1) EN 55035:2020(clause 5) CISPR 35:2016 (Clause 5) IEC 60730-2-9 : 2015+A1: 2018+ A2:2020 (Clause H 26) EN IEC 60730-2-9:2019+A2:2020 (Clause H 26) EN IEC 61800-3:2018 (Clause 3.1,3.2) IEC 61800-3:2017 (Clause 3.1,3.2)

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 503 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
69	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	High Energy / Telecom Surge Immunity Test	"IEC 61326-2-1:2020 (Clause 6) EN IEC 61326-2-1:2021 IEC 61326-2-2:2020 (Clause 6) EN IEC 61326-2-2:2021 IEC 61326-2-3:2020 (Clause 6) EN IEC 61326-2-3:2021 (Clause 6) IEC 61326-2-4 (Clause 6): 2020 EN IEC 61326-2-4:2021 IEC 61326-2-5 (Clause 6): 2020 EN IEC 61326-2-5:2021 IEC 61326-2-6 (Clause 6.2): 2020 EN IEC 61326-2-6:2021: 2021 "
70	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Immunity to Low Frequency Signal	"IEC 61000-2-2:2002+A1:2017+A2: 2018 (Cl.) EN 61000-2-2:2002+A2: 2019 (Cl.) IEC 62040-2:2016 (Cl. D 6) EN 62040-2:2018 (Cl. D 6)"
71	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Power Frequency Magnetic Field (PFMF)	"IEC 61326-1: 2020 EN IEC 61326-1: 2021 IEC 61326-2-1: 2020 (Cl. 6) EN IEC 61326-2-1: 2021(Cl. 6) EN IEC 61326-2-2 : 2021 (Cl. 6) IEC 61326-2-2 : 2020 (Cl. 6) IEC 61326-2-3 : 2020 (Cl. 6) EN IEC 61326-2-3 : 2021(Cl. 6) EN IEC 61326-2-4 : 2021 (Cl. 6) IEC 61326-2-4 : 2020(Cl. 6) EN IEC 61326-2-5 : 2021 (Cl. 6) IEC 61326-2-5 : 2020 (Cl. 6) EN IEC 61326-2-6: 2021 (Cl. 6) IEC 61326-2-6: 2020(Cl. 6)": IEC 61326-3-1:2017 (Clause 7)
72	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Power Frequency Magnetic Field (PFMF)	"IEC 61547: 2020 (Cl.5.4) EN 61547:2009 (Cl. 5.4) IEC 61000-6-2: 2016 (Cl. 9) EN IEC 61000-6-2: 2019 (Cl. 9) EN 55035:2017+A11:2020 (Cl. 4.2.3) CISPR 35: 2016 (Cl. 4.2.3) IEC 61000-6-1: 2016 (Cl. 9) EN IEC 61000-6-1: 2019 (Cl. 9) EN 60669-2-1: 2004+A12: 2010 (Cl. 26) IEC 60669-2-1:2021(Cl. 26) IEC 62040-2 :2016 (Cl. 6.3) EN 62040-2:2018 (Cl. 6.3) IS 16242 (Part 2) : 2020"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	504 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
73	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Power Frequency Magnetic Field (PFMF)	"IS 14700 (Part 4 /Sec8) (Clause 5): 2018 IEC 61131-2 (Clause 4): 2017 IEC 61000-4-8: 2009 EN 61000-4-8:2010 IEC 61439-1:2020 (Cl. J.10.12.1) EN IEC 61439-1:2021(Cl. J.10.12.1) IEC 60255-1: 2009 (Cl. 7.14) EN 60255-1: 2010 (Cl. 7.14) EN 61131-2: 2007 (Cl. 7.3.1) IEC 61131-2:2017 (Cl. 7.3.1) IEC 60255-26: 2013 IS 14700 (Part 4 /Sec 8): 2018
74	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Power Frequency Magnetic Field (PFMF)	EN 60730-1:2016+A1:2019(Cl. 26.14) IEC 60730-1:2013+A1:2015+A2:2020 (Cl. 26.14) IEC 60730-2-9 : 2015+A1: 2018+ A2:2020 (Cl. H 26) EN IEC 60730-2-9:2019+A2: 2020(Cl. H 26)
75	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Radiated Emission Test	"EN 50155: 2021 (Cl.5.2.3) IEC 61439-1:2020 (Cl. J 10.12.2) EN 61439-1:2021 (Cl. (Cl. J 10.12.2) EN 50121-3-1:2017+A1:2019 IEC 60255-26:2013 (Cl. 7.1.2) EN 60255-26:2013 (Cl. 7.1.2) IEC 61800-3:2017 (Cl. 6) EN IEC 61800-3:2018 (Cl. 6) IEC 60255-1: 2009 (Cl. 8.3) EN 60255-1:2010 (Cl. 8.3) EN 50121-5:2017+A1:2019 (Cl. 5) IEC 61131-2:2017(Cl. 7.2) EN 61131-2:2007(Cl. 7.2) IEC 60945: 2002 (Cl. 9) EN 60945: 2003 (Cl. 9)"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	505 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
76	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Radiated Emission Test	"EN 55011:2016+A2:2021 (Cl.6.2.2) CISPR 11:2015+A1: 2016+A2 : 2019 (Cl.6.2.2) CISPR 14-1:2020 (Cl. 5.3.4) EN IEC 55014-1:2021 (Cl. 5.3.4) EN IEC 61000-6-3:2021(Cl. 7) IEC 61000-6-3:2020 (Cl. 7) EN IEC 61000-6-4:2019 (Cl. 7) IEC 61000-6-4:2018 (Cl. 7) CISPR 32: 2015+A1:2019 (Cl. A.2) EN 55032:2015+AC:2016+A1:2020+ A11:2020 (Cl. A.2) EN IEC 55015:2019+A11: 2020 (Cl. 5.3.4) CISPR 15:2018 (Cl. 5.3.4) IS 16102-2:2017 (Cl. 8.4.2) IS 6873-5: 2019"
77	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Radiated Emission Test	"EN 60730-1:2016+A1:2019 (Clause 23) IEC 60730-1: 2013 +A1: 2015+A2:2020 (Clause 23) IEC 60730-2-9:2015+A1: 2018+ A2:2020(Cl. 23) EN 300 386 V2.1.1:2016 (Cl. 7.1) EN 300 386 V2.2.1:2022 (Cl. 6.4) EN 301 489-1 V2.2.3:2019 (Cl. 8.2) IEC 62040-2:2016 (Cl. 5.3.3) EN 62040-2:2018 (Cl. 5.3.3) IS 16242 (Part 2):2020 "
78	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Radiated Emission Test	"FCC Part 15 Subpart B : 2022 (Cl.15.109) FCC (Part 18): 2022 (Cl. 18.305)"
79	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Radiated Emission Test	"IEC 60571: 2012 (Cl. 12.2.9.2) EN 50121-3-2:2016+A1:2019 (Cl.7)) EN 50155:2021(Cl.13.4.8) IEC 62236-3-2:2018(Cl.7) IEC 60092-504:2016 (Cl 5.2) EN 50121-4:2016+A1:2019 (Cl.5) IEC 60669-2-1:2021 (Cl. 26.3.4) EN 60669-2-1: 2004+A 2:2010 (26.2)"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 506 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
80	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Radiated Emission Test	"IEC 61326-1:2020(Cl. 7) EN IEC 61326-1: 2021(Cl. 7) IEC 61326-2-1:2020 (Cl. 7) EN IEC 61326-2-1 : 2021 (Cl. 7) IEC 61326-2-2:2020 (Cl.7) EN IEC 61326-2-2: 2021 (Cl. 7) IEC 61326-2-3:2020 (Cl.7) EN IEC 61326-2-3: 2021 (Cl. 7) IEC 61326-2-4:2020 (Cl.7) EN IEC 61326-2-4: 2021 (Cl. 7) IEC 61326-2-5:2020 (Cl.7) EN IEC 61326-2-5: 2021 (Cl. 7) IEC 61326-2-6:2020 (Cl.7) EN IEC 61326-2-6: 2021 (Cl. 7)"
81	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Radiated Emission Test	MIL 461F: 2017 (Cl. 5.17)
82	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Radiated RF Power	"CISPR 14-1:2020(Cl. 4.3.4) EN IEC 55014-1:2021(Cl. 4.3.4) IS 6873 (Part 2/Sec I): 2019"
83	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Radiated Susceptibility Test	"CISPR 35:2016 (Cl. 5) EN 55035:2017+A11:2020 (Cl. 5) IEC 61000-6-1:2069 (Cl. 9) EN IEC 61000-6-1:2019 (Cl. 9) IEC 61000-6-2:2016 (Cl.9) EN IEC 61000-6-2:2019 (Cl. 9) CISPR 14-2:2020 (Cl. 5.5) EN IEC 55014-2:2021 (Cl. 5.5)"
84	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Radiated Susceptibility Test	"EN 60730-1:2016+A1:2019 (Cl. H 26) IEC 60730-1:2013+A1:2015+A2:2020 (Cl. H 26) IEC 60730-2-9:2015+A1:2018+A2:2020 (Cl. H 26) EN IEC 60730-2-9:2019+A2:2020 (Cl. H 26) IEC 62236-3-2:2018 (Cl. 8) EN 50121-3-2:2016+A1:2019 (Cl. 8) EN 50121-4:2016+A1:2019(Cl. 6) EN 50121-5:2017+A1:2019 (Cl. 6) EN 60945 : 2002 (Cl. 10.4) IEC 61439-1: 2020 (Cl. J.10.12.1) EN IEC 61439-1:2021 (Cl. J.10.12.1)"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 507 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
85	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Radiated Susceptibility Test	"IEC 60255-26:2013 (Cl. 6) EN 60255-1: 2010 (Cl. 7.14) IEC 60255-1: 2009 (Cl. 7.14) EN 61800-3:2018 (Cl. 5.3) IEC 61800-3:2017 (Cl. 5.3) IEC 61131-2:2017 (Cl. 7.3) EN 61131-2: 2007 (Cl. 7.3) IEC 60092-504:2016 (Cl. 5.2)"
86	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Radiated Susceptibility Test	"IEC 60669-2-1:2021 (Cl. 26) EN 60669-2-1:2004+A12:2010(Cl. 26) IEC 62040-2: 2016 (Cl. 6.3) EN 62040-2:2018 (Cl. 6.3) IS 16242-2:2020 IEC 61547:2020 (Cl. 5.3) EN 61547:2011(Cl. 5.3) ETSI EN 300 386 V2.1.1: 2016 (Cl. 7.2) ETSI EN 300 386 V2.2.1: 2022 (Cl. 7.2) ETSI EN 301 489-1 V 2.2.3:2019 (Cl. 9.2)"
87	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Radiated Susceptibility Test	"IEC 61326-1:2020(Cl. 6) EN IEC 61326-1: 2021(Cl. 6) IEC 61326-2-1:2020 (Cl. 6) EN IEC 61326-2-1 : 2021 (Cl. 6) IEC 61326-2-2:2020 (Cl.6) EN IEC 61326-2-2: 2021 (Cl. 6) IEC 61326-2-3:2020 (Cl.6) EN IEC 61326-2-3: 2021 (Cl. 6) IEC 61326-2-4:2020 (Cl. 6) EN IEC 61326-2-4: 2021 (Cl.6) IEC 61326-2-5:2020 (Cl.6) EN IEC 61326-2-5: 2021 (Cl. 6) IEC 61326-2-6:2020 (Cl.6) EN IEC 61326-2-6: 2021 (Cl. 6)": 2021 IEC 61326-3-1:(Clause 7)
88	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Radiated Susceptibility Test	MIL 461F: 2007 (Cl. 5.20)
89	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Ripple on d.c. input	"IEC 61000-4-17:1999+A1:2001+ A2:2008 (Clause 5) EN 61000-4-17: 1999+A2:2009 (Cl. 5)"
90	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Variation of power frequency, immunity test	"EN 61000-4-28:2000+A2 (Cl.5): 2009 IEC 61000-4-28:1999+A1;2001+A2 : 2009"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	508 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
91	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Voltage dips, short interruption & voltage variations Immunity Test	"IEC 60945: 2002 (Cl. 10.8) EN 60945:2002 (Cl. 10.8) IEC 60255-1:2009 (Cl. 8.3) EN 60255-1:2010 (Cl. 8.3) IEC 61800-3:2017 (Cl. 5.3) EN IEC 61800-3:2018 (Cl. 5.3) IEC 60255-26: 2013 (Cl. 6) EN 60255-26: 2013 (Cl. 6) EN 61439-1:2021 (Clause J.10.12.1) IEC 61439-1:2020 (Clause J.10.12.1) IEC 60255-1 ((Clause 6.15)): 2009 EN 60255-1 (Clause 6.15): 2010 EN IEC 61800-3:2018 (Cl. 5.3) IEC 61800-3:2017 (Cl. 5.3) IEC 60255-26:2013 (Cl. 6) EN 60255-26:2013 (Cl. 6) IEC 61131-2:2017 (Cl.7.3.1) E
92	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Voltage dips, short interruption & voltage variations Immunity Test	EN IEC 61326-2-3: 2021 (Cl. 6) IEC 61326-2-4:2020 (Cl. 6) EN IEC 61326-2-4: 2021 (Cl.6) IEC 61326-2-5:2020 (Cl.6) EN IEC 61326-2-5: 2021 (Cl. 6) IEC 61326-2-6:2020 (Cl.6) EN IEC 61326-2-6: 2021 (Cl. 6)
93	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Voltage dips, short interruption & voltage variations Immunity Test	IEC 60730-1:2013+A1:2015+A2:2020 (Cl H 26) EN 60730-1:2016+A1: 2019 (Cl. H 26) CISPR 14-2:2020 (Cl.5.7) EN IEC 55014-2 (Cl. 5.7) IEC 60730-2-9:2015 +A1: 2018+ A2: 2020 (Cl. H 26) EN IEC 60730-2-9:2019+A2: 2020 (Cl. H 26) IS 14700:Part 4:Sec 11:2021 EN 61000-4-11: 2004+A1: 2017 IEC 61000-4-11: 2020 IEC 61326-1:2020(Cl. 6) EN IEC 61326-1: 2021(Cl. 6) IEC 61326-2-1:2020 (Cl. 6) EN IEC 61326-2-1 : 2021 (Cl. 6) IEC 61326-2-2:2020 (Cl.6) EN IEC 61326-2-2: 2021 (Cl. 6) IEC 61326-2-3:2020 (Cl.6) E

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	509 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
94	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Voltage dips, short interruption & voltage variations Immunity Test	IEC 61000-6-2:2016 (Cl. 9) EN IEC 61000-6-2:2019 (Cl.9) IEC 60669-2-1:2021 (Cl. 26) EN 60669-2-1:2004+A12:2010 (Cl. 26) EN IEC 61000-6-1:2019 (Cl. 9) IEC 61000-6-1:2016 (Cl. 9) IEC 62040-2:2016 (Cl. 6) EN 62040-2:2018(Cl. 6) IS 16242 (Part 2): 2014 (Cl. 6) EN 61547:2009 (Cl. 5.8 & 5.9) IEC 61547:2020 (Cl. 5.8 & 5.9) ETSI EN 300 386 V2.1.1:2016 (Cl. 7.2) ETSI EN 300 386 V2.2.1:2022 (Cl. 7.2) EN 301 489-1 V 2.2.3:2019 (Cl. 9.7) EN 55035:2017+A11:2020 (Cl. 4.2.6) CISPR 35:2016 (Cl. 4.2.6) IEC
95	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Voltage Fluctuation & Flicker Test	"EN 61000-3-3:2013+A2:2021 IEC 61000-3-3:2013+A1:2017+A2: 2021 EN IEC 61000-3-11:2019 IEC 61000-3-11:2017 IS 14700 Part 3 Sec 3:2018 (Reaffirmed 2021)"
96	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Voltage Fluctuation & Flicker Test	"IEC 60669-2-1: 2021 (Cl. 26.2) EN 60669-2-1: 2004+A12:2010 (Cl. 26.2 EN 300 386 V2.2.1: 2022 (Cl. 7.1.2) EN 300 386 V2.1.1: 2016 (Cl. 7.1.2) ETSI EN 301 489-1 V 2.2.3:2019 (Cl. 8.6) IEC 62040-2: 2016 (Cl. 5) EN 62040-2: 2018 (Cl.5) IS 16242 (Part 2):: 2020 (Cl.5)"
97	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Voltage Fluctuation & Flicker Test	"IEC 61326-1:2020(Cl. 7) EN IEC 61326-1: 2021(Cl. 7) IEC 61326-2-1:2020 (Cl. 7) EN IEC 61326-2-1 : 2021 (Cl. 7) IEC 61326-2-2:2020 (Cl. 7) EN IEC 61326-2-2: 2021 (Cl. 7) IEC 61326-2-3:2020 (Cl.7) EN IEC 61326-2-3: 2021 (Cl. 7) IEC 61326-2-4:2020 (Cl. 7) EN IEC 61326-2-4: 2021 (Cl. 7) IEC 61326-2-5:2020 (Cl. 7) EN IEC 61326-2-5: 2021 (Cl. 7) IEC 61326-2-6:2020 (Cl.7) EN IEC 61326-2-6: 2021 (Cl. 7)"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 510 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
98	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Voltage Fluctuation & Flicker Test	IEC 60730-2-9:2015+A1:2018+A2:2020 (Cl. H23) EN IEC 60730-2-9:2019+A2:2020 (Cl. H23) IEC 60730-1:2013 +A1: 2015+A2: 2020 (Cl. H.23) EN 60730-1:2016+A1: 2019 (Cl. H.23) IEC 61851-21-2:2018 (Cl.6.2.3) EN IEC 61851-21-2:2021(Cl.6.2.3) EN 61800-3:2018 (Cl. 3.6.2) IEC 61800-3:2017 (Cl. 3.6.2)
99	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Impulse magnetic field immunity test	IEC 61000-4-9:2016 EN 61000-4-9:2016 IS 14700 (Part 4 /Sec 9):2008
100	ELECTRONICS- EMC TEST FACILITY	Electrical /Electronic Equipments	Electrical Fast Transient (EFT) / Burst Immunity Test (Power Line & Signal Line)	EN 61000-4-4:2012 IEC 61000-4-42012 IS 14700(Part 4/Sec 4): 2008
101	ELECTRONICS- EMC TEST FACILITY	Electro Medical Devices	Conducted Emission Test (-160dBm to 30dBm)	IEC 60601-1-2:2014+ A1:2020 (CL. 7.3) EN 60601-1-2:2015+A1:2021(Cl. 7.3) ANSI/AAMI/IEC 60601-1-2:2014+A1:2021 (Cl. 7.3) IS 13450:Part 1:SEC 2: 2018 (Cl. 7.3)
102	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Conducted RF Immunity Test	"IEC 60601-1-2:2014+A1:2020 (Clause 8.9) EN 60601-1-2:2015+A1:2021(Cl. 8.9) ANSI/AAMI/IEC 60601-1-2:2014+A1:2021 (Cl. 8.9) IS 13450:Part 1:SEC 2:2018 (Cl. 8.9)"
103	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrical Fast Transient (EFT) / Burst Immunity Test (Power Line & Signal Line)	IEC 60601-1-2 : 2014 +A1:2020 (Clause 8.9) EN 60601-1-2:2015+A1:2021 (Clause 8.9) IS 13450:Part 1:SEC 2:2018 (Clause 8.9) ANSI/AAMI/IEC 60601-1-2:2014+A1:2021(Cl. 8.9)

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 511 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
104	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Electrostatic Discharge Immunity Test	IEC 60601-1-2 : 2014 +A1:2020 (Clause 8.9) EN 60601-1-2:2015+A1:2021 (Clause 8.9) IS 13450:Part 1:SEC 2:2018 (Clause 8.9) ANSI/AAMI/IEC 60601-1-2:2014+A1:2021(Cl. 8.9)
105	ELECTRONICS- EMC TEST FACILITY	Electro Medical Devices	Harmonic Current Emission Test	"IEC 60601-1-2:2014+ A1:2020 (Cl. 7.3) EN 60601-1-2:2015+A1:2021 (Cl. 7.3) ANSI/AAMI/IEC 60601-1-2: 2014 +A1:2021(Cl. 7.3) IS 13450:Part 1:SEC 2:2018(Cl. 7.3)"
106	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Power Frequency Magnetic Field (PFMF)	"IEC 60601-1-2:2014+A1:2020 (Cl. 8.9) EN 60601-1-2:2015+A1:2021(Cl. 8.9) ANSI/AAMI/IEC 60601-1-2:2014+A1:2021 (Cl. 8.9) IS 13450:Part 1:SEC 2:2018 (Cl. 8.9)"
107	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Surge Immunity Test	"IEC 60601-1-2:2014+A1:2020 (Clause 8.9) EN 60601-1-2:2015+A1:2021(Cl. 8.9) ANSI/AAMI/IEC 60601-1-2:2014+A1:2021 (Cl. 8.9) IS 13450:Part 1:SEC 2:2018 (Cl. 8.9)"
108	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage dips, short interruption & voltage variations Immunity Test	"IEC 60601-1-2:2014+A1:2020 (Cl.8.9) EN 60601-1-2:2015+A1:2021(Cl. 8.9) ANSI/AAMI/IEC 60601-1-2:2014+A1:2021 (Cl. 8.9) IS 13450:Part 1:SEC 2:2018 (Cl. 8.9)"
109	ELECTRONICS- EMC TEST FACILITY	Electro medical devices	Voltage Fluctuation & Flicker Test	IEC 60601-1-2:2014+A1:2020 (Cl. 7.3) EN 60601-1-2:2015+A1:2021(Cl. 7.3) ANSI/AAMI/IEC 60601-1-2:2014+A1:2021 (Cl.7.3) IS 13450:Part 1:SEC 2:2018 (Cl. 7.3)
110	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Conducted emission test on ac Power line	"RSS Gen (Cl. 8.8): 2018 FCC (Part 15) Subpart C(Clause 15.207) : 2022"

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 512 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
111	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Field Strength of Spurious Radiation	"FCC Part 2 (Cl. 2.1053(a): 2022 FCC Part 22 Subpart H (Cl. 22.917(a)(b): 2022 FCC Part 24 Subpart E (Cl. 24.238(a)(b): 2022 FCC Part 27 Subpart C (Cl. 27.53(h): 2022 RSS-133 (Cl 6.5) : 2018 RSS-139 (Cl 6.6) : 2015 RSS-132 (Cl 5.5) : 2013 RSS-130 (Cl 4.7): 2019 "
112	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Radiated Emissions & Field Strength of Fundamental Emissions	"FCC Part 15 Subpart C (Cl.15.225, 15.231(b)/ 15.209) : 2022 RSS 210 (Cl. A.1.2 & Cl. B.6) : 2019 RSS Gen (Cl 8.9) : 2018"
113	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Radiated Emissions (UE)	ETSI EN 301 908-1 Clause 4.2.2 : 2021
114	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Radiated spurious emissions - MS alocated a channel	ETSI EN 301 511 Clause 4.2.16: 2017
115	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Radiated Spurious Emissions - MS in idle Mode	ETSI EN 301 511 Clause 4.2.17 : 2017
116	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Radiated spurious emissions for MS supporting the R-GSM or ER-GSM frequency - MS in idle Mode	ETSI EN 301 511 Clause 4.2.19: 2017
117	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Radiated spurious emissions for MS supporting the R-GSM or ER-GSM frequency - MS alocated a channel	ETSI EN 301 511 Clause 4.2.18 : 2017
118	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Receiver Spurious emissions	"ETSI EN 302 502 (Clause 4.2.5): 2017 ETSI EN 301 893 (Clause 4.2.5): 2017"
119	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Receiver Spurious Emissions	"RSS-132 (Cl.5.6): 2013 RSS-133 (Cl.6.6) : 2018 Rss Gen (Cl 7.3) : 2018"
120	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Receiver Spurious Emissions	ETSI EN 300 328 (Clause 4.3.1.11 & 4.3.2.10): 2019
121	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Receiver Spurious Emissions	ETSI EN 300 330 (Clause 4.4.2): 2017

SCOPE OF ACCREDITATION

Laboratory Name : TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5688 **Page No** 513 of 514

Validity 24/04/2022 to 23/04/2024 **Last Amended on** 04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
122	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Spurious Radiated Emissions and Restricted Bands of Operation	"FCC Part 15 Subpart C (Cl. 15.209/15.205): 2022 FCC Part 15 Subpart E (Cl.15.407(b)): 2022 RSS Gen (Cl. 8.9/8.10): 2018"
123	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Spurious Radiations	ETSI EN 300 440 (Clause 4.3.5): 2017
124	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Transmitter Radiated Power (ERP/EIRP)	"FCC Part 2 (Cl. 2.1046): 2022 FCC Part 27 Subpart C (Cl. 27.50,: 2022 FCC Part 24 Subpart E (Cl. 24.232): 2022 FCC Part 22 Subpart H (Cl. 22.913(a): 2022 RSS-132 (Cl. 5.4): 2013 RSS-139 (Cl. 6.5): 2015 RSS-133 (Cl. 4.1/6.4): 2018 RSS-130 (Cl. 4.6): 2019"
125	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Transmitter Radiated Spurious Domain Emission	ETSI EN 300 330 (Clause 4.3.8): 2017
126	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Transmitter Radiated Spurious Domain Emission >30MHz	ETSI EN 300 330 (Clause 4.3.9): 2017
127	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Transmitter unwanted emissions	"ETSI EN 302 502 (Clause 4.2.3): 2017 ETSI EN 301 893 (Clause 4.2.4): 2017"
128	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Transmitter Unwanted Emissions in Spurious Domain	ETSI EN 300 328 (Clause 4.3.1.10 & 4.3.2.9): 2019
129	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Transmitter Unwanted Emissions	"RSS-139 (Cl.6.6): 2015 RSS-133 (Cl.6.5): 2018 RSS-130 (Cl.4.7),: 2019 RSS-132 (Cl.5.5),: 2013"
130	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Tx Effective Radiated Power	"ETSI EN 300 220-3-2 (Clause 4.3.1): 2017 ETSI EN 300 220-3-1 (Clause 4.2.3): 2017 ETSI EN 300 220-2 (Cl.4.3.1): 2017"
131	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Unwanted Emissions in the Spurious Domain	ETSI EN 300 440 (Clause 4.2.4): 2018
132	ELECTRONICS- EMC TEST FACILITY	Electronics Equipments - Radio	Unwanted emissions inthe spurious domain	"ETSI EN 300 220-4 (Cl.4.2.2)): 2017 ETSI EN 300 220-2 (Clause 4.2.2): 2018 ETSI EN 300 220-3-2 (Clause 4.2.2): 2017 ETSI EN 300 220-3-1 (Clause 4.3.2): 2016"

SCOPE OF ACCREDITATION

Laboratory Name :	TUV RHEINLAND (INDIA) PVT. LTD., SAFETY, EMI_EMC, WIRELESS/ IOT AND ENVIRONMENTAL TESTING LABORATORY, FIRST FLOOR, GROUND FLOOR & BASEMENT, NO. 27/B, 2ND CROSS ROAD, ELECTRONIC CITY PHASE 1, BENGALURU, KARNATAKA, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5688
Page No	514 of 514
Validity	24/04/2022 to 23/04/2024
Last Amended on	04/01/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
133	ELECTRONICS- EMC TEST FACILITY	Telecommunication equipment	"Conducted Emission Test (-160dBm to 30dBm)"	"TEC 11016:2016 (TEC/SD/DD/EMC-221/05/OCT-16) "
134	ELECTRONICS- EMC TEST FACILITY	Telecommunication equipment	Conducted RF Immunity Test	"TEC 11016:2016 (TEC/SD/DD/EMC-221/05/OCT-16) "
135	ELECTRONICS- EMC TEST FACILITY	Telecommunication equipment	Electrical Fast Transient (EFT) / Burst Immunity Test (Power Line & Signal Line)	"TEC 11016:2016 (TEC/SD/DD/EMC-221/05/OCT-16) "
136	ELECTRONICS- EMC TEST FACILITY	Telecommunication equipment	Electrostatic Discharge Immunity Test	"TEC 11016:2016 (TEC/SD/DD/EMC-221/05/OCT-16) "
137	ELECTRONICS- EMC TEST FACILITY	Telecommunication equipment	Harmonic Current Emission Test	"TEC 11016:2016 (TEC/SD/DD/EMC-221/05/OCT-16) "
138	ELECTRONICS- EMC TEST FACILITY	Telecommunication equipment	High Energy / Telecom Surge Immunity Test	"TEC 11016:2016 (TEC/SD/DD/EMC-221/05/OCT-16) "
139	ELECTRONICS- EMC TEST FACILITY	Telecommunication equipment	Radiated Emission Test (-160dBm to 30dBm)	"TEC 11016:2016 (TEC/SD/DD/EMC-221/05/OCT-16) "
140	ELECTRONICS- EMC TEST FACILITY	Telecommunication equipment	Radiated Susceptibility Test	"TEC 11016:2016 (TEC/SD/DD/EMC-221/05/OCT-16) "
141	ELECTRONICS- EMC TEST FACILITY	Telecommunication equipment	Voltage dips, short interruption & voltage variations Immunity Test	"TEC 11016:2016 (TEC/SD/DD/EMC-221/05/OCT-16) "
142	ELECTRONICS- EMC TEST FACILITY	Telecommunication equipment	Voltage Fluctuation & Flicker Test	"TEC 11016:2016 (TEC/SD/DD/EMC-221/05/OCT-16) "