National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 1 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	ELECTRICAL- CELLS & BATTERIES	Battery	Acid Retention Capacity Test on Separators	Clause no. 12.7 of IS 15549
2	ELECTRICAL- CELLS & BATTERIES	Battery	Air Pressure Test	Clause no. 7.15 of RDSO IRS : S : 88
3	ELECTRICAL- CELLS & BATTERIES	Battery	Ampere-hour and watt-hour efficiency tests	Clause no. 10.10 of IS 1652
4	ELECTRICAL- CELLS & BATTERIES	Battery	Ampere-hour and watt-hour efficiency tests	Clause no. 11.8 of IS 13369
5	ELECTRICAL- CELLS & BATTERIES	Battery	Ampere-hour and watt-hour efficiency tests	Clause no. 12.4 and 12.5 of IS 15549
6	ELECTRICAL- CELLS & BATTERIES	Battery	Ampere-hour and watt-hour efficiency tests	Clause no. 12.9 of IS 1651
7	ELECTRICAL- CELLS & BATTERIES	Battery	Ampere-hour and watt-hour efficiency tests	Clause no. 7.8 of RDSO IRS : S: 88
8	ELECTRICAL- CELLS & BATTERIES	Battery	Capacity	Clause no. 12.1 and 12.2 of IS 15549
9	ELECTRICAL- CELLS & BATTERIES	Battery	Capacity Test	Clause no. 8.1 of IS 16270
10	ELECTRICAL- CELLS & BATTERIES	Battery	Cycling Endurance in Photovoltaic Application	Clause no. 8.4 of IS 16270
11	ELECTRICAL- CELLS & BATTERIES	Battery	Endurance and Life Test	Clause no. 7.7 & 7.10 of RDSO IRS : S : 88
12	ELECTRICAL- CELLS & BATTERIES	Battery	Endurance Life Cycle Test	Clause no. 12.10 of IS 15549
13	ELECTRICAL- CELLS & BATTERIES	Battery	Endurance Test	Clause no. 10.9 of IS 1652
14	ELECTRICAL- CELLS & BATTERIES	Battery	Endurance Test	Clause no. 11.7 of IS 13369
15	ELECTRICAL- CELLS & BATTERIES	Battery	Endurance Test	Clause no. 12.8 of IS 1651
16	ELECTRICAL- CELLS & BATTERIES	Battery	Endurance Test	Clause no. 8.2 of IS 16270
17	ELECTRICAL- CELLS & BATTERIES	Battery	Equilibrium Float Current Test	Clause no. 11.10 of IS 13369
18	ELECTRICAL- CELLS & BATTERIES	Battery	Equilibrium Float Current Test	Clause no. 7.13 of RDSO IRS : S : 88

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 2 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
19	ELECTRICAL- CELLS & BATTERIES	Battery	Internal Resistance and Short Circuit Test	Clause no. 10.14 of IS 1652
20	ELECTRICAL- CELLS & BATTERIES	Battery	Loss of Water Test	Clause no. 10.12 of IS 1652
21	ELECTRICAL- CELLS & BATTERIES	Battery	Short Circuit Current and Internal Resistance Test	Clause no. 12.13 of IS 1651
22	ELECTRICAL- CELLS & BATTERIES	Battery	Sulphation Test	Clause no. 7.14 of RDSO IRS : S : 88
23	ELECTRICAL- CELLS & BATTERIES	Battery	Sulphation Test	Clause no. 8.5 of IS 16270
24	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Capacity	Clause no. 10.6 of IS 1652
25	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Capacity	Clause no. 11.5 of IS 13369
26	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Capacity	Clause no. 12.5 of IS 1651
27	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Capacity	Clause no. 7.5 of RDSO IRS : S : 88
28	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity on Storage (Retention of Charge)	Clause no. 10.8 of IS 1652
29	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity on Storage (Retention of Charge)	Clause no. 11.6 of IS 13369
30	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity on Storage (Retention of Charge)	Clause no. 12.6 of IS 15549
31	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity on Storage (Retention of Charge)	Clause no. 12.7 of IS 1651
32	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity on Storage (Retention of Charge)	Clause no. 7.6 & 7.11 of RDSO IRS : S : 88
33	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Loss of Capacity on Storage (Retention of Charge)	Clause no. 8.3 of IS 16270
34	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Suitability of Floating Battery Operation	Clause no. 10.13 of IS 1652
35	ELECTRICAL- CELLS & BATTERIES	Battery	Test for Suitability of Floating Battery Operation	Clause no. 12.12 of IS 1651
36	ELECTRICAL- CELLS & BATTERIES	Battery	Verification of dimensions	Clause no. 11.4 of IS 13369

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 3 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic 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	ELECTRICAL- CELLS & BATTERIES	Battery	Verification of dimensions	Clause no. 12.2 of IS 1651
38	ELECTRICAL- CELLS & BATTERIES	Battery	Verification of dimensions	Clause no. 6 & Table 2 of IS 1652
39	ELECTRICAL- CELLS & BATTERIES	Battery	Verification of dimensions	Clause no. 7.4 of RDSO IRS : S : 88/2004
40	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss Test	Clause no. 11.9 of IS 13369
41	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss Test	Clause no. 12.11 of IS 1651
42	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss Test	Clause no. 7.12 of RDSO IRS : S : 88
43	ELECTRICAL- CELLS & BATTERIES	Battery	Water Loss Test	Clause no. 8.6 of IS 16270
44	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Cold Test	Cl. No.: 12.6.2 OF IS 13779(AMD.5)
45	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Damp Heat Test	Cl. No.: 12.6.3 & 6 of IS 13779(AMD.5)
46	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Dry Heat Test	Cl. No.: 12.6.1 OF IS 13779(AMD.5)
47	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Fast Transient burst test	Cl. No.: 12.9.4 of IEC 61000-4-4 & IS 13779(AMD.5)
48	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Influence of short time over currents	Cl. No.: 12.7.3 of IS 13779(AMD.5)
49	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Interpretation of test results	Cl. No.: 12.16 of IS 13779(AMD.5)

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5637	**Page No**	4 of 42
Validity	14/03/2020 to 13/03/2022*	**Last Amended on**	-

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
50	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Protection against Penetration of dust and water	Cl. No.: 12.5 & 6 of IS 13779(AMD.5)
51	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Radio interference measurements	Cl. No.: 12.9.5 of IS 13779(AMD.5)
52	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Shock Test	Cl. No.: 12.3.1 of IS 13779(AMD.5)
53	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Spring Hammer Test	Cl. No.: 12.3.3 OF IS 13779(AMD.5)
54	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Influence of supply voltage	Cl. No.: 12.7.2 of IS 13779(AMD.5)
55	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of ambient temperature influence	Cl. No.: 12.12 of IS 13779(AMD.5)
56	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Immunity to electromagnetic HF field	Cl. No.: 12.9.3 of IEC:61000-4-3 & IS 13779(AMD.5)
57	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Immunity to electrostatic discharge	Cl. No.: 12.9.2 of IEC: 61000-4-2 & IS 13779(AMD.5)
58	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Influence of heating	Cl. No.: 12.7.5 & 6 of IS 13779(AMD.5)
59	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Influence of self heating	Cl. No.: 12.7.4 of IS 13779(AMD.5)

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 5 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
60	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of influence quantities	Cl. No.: 12.11 of IS 13779(AMD.5)
61	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of Meter Constant	Cl. No.: 12.15 of IS 13779(AMD.5)
62	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of no- load condition	Cl. No.: 12.13 of IS 13779(AMD.5)
63	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of power consumption a) Voltage Coil b) Current Coil	Cl. No.: 12.7.1 of IS 13779(AMD.5)
64	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of repeatability of error	Cl. No.: 12.17 of IS 13779(AMD.5)
65	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of resistance to heat & fire	Cl. No.: 12.4 & 6 of IS 13779(AMD.5)
66	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test of starting condition	Cl. No.: 12.14 of IS 13779(AMD.5)
67	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Vibration Test (sine)	Cl. No.: 12.3.2 of IS 13779(AMD.5)
68	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Insulation Resistance test	Cl. No.: 12.7.6.4 & 6 of IS 13779 (AMD.5)
69	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Single & Three Phase	Test on Limits of Error	Cl. No.: 11.1 & 7 of IS 13779(AMD.5)

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 6 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
70	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS; Class: 1 & 2; Three Phase	Test of Influence of immunity to earth fault	Cl. No.: 12.8 of IS 13779(AMD.5)
71	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	AC High Voltage Test	Cl. No.: 12.7.6.3 & 6 of IS 14697(AMD.4)
72	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Cold Test	Cl. No.: 12.6.2 of IS 14697(AMD.4)
73	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Damp Heat Test	Cl. No.: 12.6.3 of IS 14697(AMD.4)
74	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Dry Heat Test	Cl. No.: 12.6.1 of IS 14697(AMD.4)
75	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Fast Transient burst test	Cl. No.: 12.8.4 of IEC:61000-4-4 & IS 14697(AMD.4)
76	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Impulse Voltage Test	Cl. No.: 12.7.6.2 & 6 of IS 14697(AMD.4)
77	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Influence of short time over currents	Cl. No.: 12.7.3 of IS 14697(AMD.4)
78	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Influence of supply voltage	Cl. No.: 12.7.2 of IS 14697(AMD.4)
79	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Insulation Resistance Test	Cl. No.: 12.7.6.4 & 6 of IS 14697(AMD.4)

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 7 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic 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- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Interpretation of test results	Cl. No.: 12.15 of IS 14697(AMD.4)
81	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Protection against Penetration of dust and water	Cl. No.: 12.5 & 6 of IS 14697(AMD.4)
82	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Radio interference measurements	Cl. No.: 12.8.5 of IS 14697(AMD.4)
83	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Shock Test	Cl. No.: 12.3.1 of IS 14697(AMD.4)
84	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Spring Hammer Test	Cl. No.: 12.3.3 of IS 14697(AMD.4)
85	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Test of ambient temperature influence	Cl. No.: 12.11 of IS 14697(AMD.4)
86	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Test of Immunity to electromagnetic HF field	Cl. No.: 12.8.3 of IEC:61000-4-3 & IS 14697(AMD.4)
87	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Test of Immunity to electrostatic discharge	Cl. No.: 12.8.2 of IEC:61000-4-2 & IS 14697(AMD.4)
88	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Test of Influence of heating	Cl. No.: 12.7.5 of IS 14697(AMD.4)
89	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Test of Influence of immunity to earth fault	Cl. No.: 12.17 of IS 14697(AMD.4)

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 8 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic 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	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Test of Influence of self heating	Cl. No.: 12.7.4 of IS 14697(AMD.4)
91	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Test of influence quantities	Cl. No.: 12.10of IS 14697(AMD.4)
92	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Test of Meter Constant	Cl. No.: 12.14 of IS 14697(AMD.4)
93	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Test of no- load condition	Cl. No.: 12.12 of IS 14697(AMD.4)
94	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Test of power consumption (a) Voltage Coil (b) Current Coil	Cl. No.: 12.7.1 of IS 14697(AMD.4)
95	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Test of repeatability of error	Cl. No.: 12.16 of IS 14697(AMD.4)
96	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Test of resistance to heat & fire	Cl. No.: 12.4 & 6 of IS 14697(AMD.4)
97	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Test of starting condition	Cl. No.: 12.13 of IS 14697(AMD.4)
98	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Test on Limits of Error	Cl. No.: 11.1 & 7 of IS 14697(AMD.4)
99	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC TRANSFORMER OPERATED WATTHOUR AND VAR-HOUR METERS, CLASS 0.2S,0.5S AND 1.0S	Vibration Test (sine)	Cl. No.: 12.3.2 of IS 14697(AMD.4)

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 9 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
100	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS Class 1 & 2 (Single & Three Phase)	Impulse Voltage Test	Cl. No.: 12.7.6.2 & 6 of IS 13779
101	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	ac STATIC WATTHOUR METERS, CLAS 1 AND 2 Single & three phase	ac High Voltage test	CL. 12.7.6.3 & 6 of IS 13779(AMD.5)
102	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Component	Damp Heat Test	IEC 60068-2-78
103	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Low Temperature	IEC 60068-2-1
104	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Bump Test(peak accl., max load 20kg,No. of Bump 2-4 bump/sec)	IEC 60068-2-29
105	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Bump Test(peak accl., max load 20kg,No. of Bump 2-4 bump/sec)	IS 9000 (Part 7/ Sec II)
106	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Bump Test(peak accl., max load 20kg,No. of Bump 2-4 bump/sec)	QM333
107	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Change of Temperature	IEC 60068-2-14
108	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Change of temperature	IS 9000 Part 14
109	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Damp Heat Test	IEC 60068-2-30
110	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Damp Heat Test	IS 9000 (Part 4)
111	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Damp Heat Test	IS 9000 (Part 5): 1981 RA
112	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Damp Heat Test	QM333

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 10 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
113	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Drop & Topple Test	IS 9000 Part VII/Sec -3
114	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Drop & Topple Test	QM 333
115	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Fall Test	IS 9000 Part – VII/Sec -4
116	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Fall Test	QM 333
117	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	High Temperature	IEC 60068-2-2
118	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	High Temperature	IEC 60068-2-14
119	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	High Temperature	IS 9000 (Part 14): 1988 RA
120	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	High Temperature	IS 9000 (Part 3): 1977 RA
121	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	High Temperature	QM333
122	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Ingress Protection (2nd Numeral 1-8)	IEC 60529
123	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Ingress Protection (2nd Numeral 1-8)	IS/IEC 60947-1
124	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Ingress Protection (2nd Numeral 1-8)	IEC60034-5:(2006-11)
125	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Ingress Protection (1st Numeral 1to6)	IEC 60529

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 11 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
126	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Ingress Protection (1st Numeral 1to6)	IEC60034-5: (2006-11)
127	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Ingress Protection (1st Numeral 1to6)	IS/IEC 60947-1
128	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Low Temperature	IEC 60068-2-14
129	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Low Temperature	IS 9000 (Part 14): 1988 RA
130	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Low Temperature	IS 9000 (Part 2): 1977 RA
131	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Low Temperature	QM333
132	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Rapid temperature cyclic test	QM 333
133	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Salt Spray	IEC 68-2-11
134	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Salt Spray	IEC 68-2-52
135	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Salt Spray	IS 9000 (Part 11): 1983 (RA 2007)
136	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Salt Spray	QM333
137	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Shock Test(Half sine,max load 30kg)	IEC 60068-2-27
138	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Shock Test(Half sine,max load 30kg)	IS 9000 (Part VII)Sec I)

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5637	**Page No**	12 of 42
Validity	14/03/2020 to 13/03/2022*	**Last Amended on**	-

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
139	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Shock(Half Sine,max load 30kg)	QM333
140	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Tensile & Compressive Force	IS 13780: 1993 RA
141	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Tensile & Compressive Force	IS 1608
142	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Tensile & Compressive Force	IS 9000 (Part 19): 1986 RA
143	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Vibration: Sine (rated force 400kgf peak bare)	IEC 60068-2-6
144	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Vibration: Sine (rated force 400kgf peak bare)	QM333
145	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Vibration: Sine(rated force 400kgf bare)	IS 9000 (PartVIII) RA
146	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Vibration: Random(rated force 400kgf peak bare)	IEC 60068-2-64
147	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Vibration: Random(rated force 400kgf peak bare)	IEC 61373
148	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Vibration: Sine (rated force 400kgf peak bare)	JSS 55555
149	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Electrical Apparatus Including Sub-Assembles, Accessories And Components	Vibration: Sine(rated force 400kgf bare)	JSS 50101
150	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	Battery Reverse Polarity Protection	MNRE Specifications on Solar System
151	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	Capacity Test of Battery	MNRE Specifications on Solar System

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 13 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
152	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	Duty Cycle Measurement of Electronics Part	MNRE Specifications on Solar System
153	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	Efficiency Test of Electronics Part	MNRE Specifications on Solar System
154	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	Indicators: Visual Inspection.	MNRE Specifications on Solar System
155	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	Light Output	MNRE Specifications on Solar System
156	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	Load Reconnect voltage	MNRE Specifications on Solar System
157	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	Low Voltage cut-off protection of Battery	MNRE Specifications on Solar System
158	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	No load Current measurement of Electronics Part	MNRE Specifications on Solar System
159	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	No load Current Protection of Electronics Part	MNRE Specifications on Solar System
160	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	Open Circuit Voltage measurement of PV Module under STC	MNRE Specifications on Solar System
161	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	Overcharge Cut-off protection of Battery	MNRE Specifications on Solar System
162	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	Power Output Measurement of PV Module under STC	MNRE Specifications on Solar Systems
163	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	Protection of Reverse Flow of Current through PV Module	MNRE Specifications on Solar System
164	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	PV Module Efficiency Test	MNRE Specifications on Solar System

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 14 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
165	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	Temperature Compensation of Electronics Part	MNRE Specifications on Solar System
166	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Photo Voltaic Lighting System	Temperature Rise of Heat Sink	MNRE Specifications on Solar System
167	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Bypass Diode Testing	Cl. 4.18 of IEC 61215-2
168	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Damp-Heat Test	Cl. 4.13 of IEC 61215-2
169	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Hail Test	Cl. 4.17 of IEC 61215-2
170	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Hot-spot Endurance Test	Cl. 4.9 of IEC 61215-2
171	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Humidity-Freeze Test	Cl. 4.12 of IEC 61215-2
172	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Insulation Test	Cl. 4.3 of IEC 61215-2
173	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Maximum Power Determination	Cl. 4.2 of IEC 61215-2
174	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Measurement of Nominal Module Operating Temp.	Cl. 4.5 of IEC 61215-2
175	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Measurement of Temperature Coefficients	Cl. 4.4 of IEC 61215 -2
176	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Outdoor Exposure Test	Cl. 4.8 of IEC 61215-2
177	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Performance at Low Irradiance	Cl. 4.7 of IEC 61215-2

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 15 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic 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	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Performance at STC and NMOT	Cl. 4.6 of IEC 61215-2
179	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Robustness of Terminations Test	Cl. 4.14 of IEC 61215-2
180	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Stabilization	Cl. 4.19 of IEC 61215-2
181	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Static Mechanical Load Test	Cl. 4.16 of IEC 61215-2
182	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Thermal Cycling Test	Cl. 4.11 of IEC 61215-2
183	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Visual Inspection	Cl. 8 (a to k) of IEC 61215-1 : 2016 & Cl. 4.1 of IEC 61215-2
184	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Solar PV Module	Wet Leakage Current Test	Cl. 4.15 of IEC 61215-2
185	ELECTRICAL- SAFETY TESTING FACILITY	Electrical apparatus in Explosive Gas Atmospheres - General Requirements	Compliance of Prototype or sample with documents	Cl. no. 25 of IEC 60079-0
186	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres- General Requirements	Charging Test (measurement of capacitance)	Cl. no. 26.14 of IEC 60079-0
187	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres- General Requirements	Compliance of prototype or sample with documents	Cl. no.25 of IS/IEC 60079-0
188	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres- General Requirements	Drop test	Cl. no. 26.4.3 of IEC 60079-0
189	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres- General Requirements	Drop test	Cl. no. 26.4.3 of IS/IEC 60079-0
190	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres- General Requirements	Ingress protection test (IP 1X to 6X & IP X1 to X7/ X8) for rotating & non-rotating machine	Cl. no. 26.4.5 of IEC 60079-0
191	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres- General Requirements	Resistance to Chemicals agents for Group I electrical apparatus	Cl. no. 26.11 of IEC 60079-0

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 16 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic 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	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres- General Requirements	Resistance to Chemicals agents for Group I electrical apparatus	Cl. no. 26.11 of IS/IEC 60079-0
193	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres- General Requirements	Resistance to Impact Test	Cl. no. 26.4.2 of IS/IEC 60079-0
194	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres- General Requirements	Thermal Endurance to cold (Non-metallic)	Cl. no. 26.9 of IEC 60079-0
195	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres- General Requirements	Thermal Endurance to heat (non-metallic)	Cl. no. 26.8 of IEC 60079-0
196	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres- General Requirements	Thermal Shock Test for Glass parts	Cl. no. 26.5.2 of IEC 60079-0
197	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres- General Requirements	Thermal Shock Test for Glass parts	Cl. no. 26.5.2 of IS/IEC 60079-0
198	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres- General Requirements	Torque Test for bushings	Cl. no. 26.6 of IEC 60079-0
199	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres- General Requirements	Torque Test for bushings	Cl. no. 26.6 of IS/IEC 60079-0
200	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres-General Requirements	Ingress protection test (IP 1X to 6X & IP X1 to X7/ X8) for rotating & non-rotating machines	Cl. no. 26.4.5 of IS/IEC 60079-0
201	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres.- General Requirements	Charging Test (measurement of capacitance)	Cl. no. 26.14 of IS/IEC 60079-0
202	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres.- General Requirements	Resistance to Impact Test	Cl. No 26.4.2 and A 3.3 of IEC 60079-0
203	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres.- General Requirements	Surface resistance test of non-metallic materials (Resistance measurement after conditioning)	Cl. no. 26.13 of IEC 60079-0
204	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres.- General Requirements	Surface resistance test of non-metallic materials (Resistance measurement after conditioning)	Cl. no. 26.13 of IS/IEC 60079-0
205	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres.- General Requirements	Temperature Measurement	Cl. no. 26.5.1 of IEC 60079-0
206	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres.- General Requirements	Temperature Measurement	Cl. no. 26.5.1 of IS/IEC 60079-0
207	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres.- General Requirements	Thermal Endurance to cold (Non-metallic)	Cl. no. 26.9 of IS/IEC 60079-0:

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 17 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
208	ELECTRICAL- SAFETY TESTING FACILITY	Electrical Apparatus in Explosive Gas Atmospheres.- General Requirements	Thermal Endurance to heat (non-metallic)	Cl. no. 26.8 of IS/IEC 60079-0:
209	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	AC Current	IEC 60079-11: Edition 6.0 Cls. 10.10
210	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	AC Current	IS/IEC 60079-11: Cls. 10.10,
211	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	AC Voltage	IEC 60079-11: Edition 6.0 Cls. 10.10
212	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	AC Voltage	IS/IEC 60079-11: Cls. 10.10
213	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Clearance	IEC 60079-11: Edition 6.0 Cls. 6.3
214	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Clearance	IS/IEC 60079-11: Cls. 6.3
215	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Comparative tracking index(CTI)	IEC 60079-11: Edition 6.0 Cls. 6.3.9
216	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Comparative tracking index(CTI)	IS/IEC 60079-11: Cls. 6.3,8
217	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Creepage distances	IEC 60079-11: Edition 6.0 Cls. 6.2.1
218	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Creepage distances	IS/IEC 60079-11: Cls. 6.2.1,
219	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	DC Current	IEC 60079-11: Edition 6.0 Cls. 10.1.5
220	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	DC Current	IS/IEC 60079-11: Cls. 10.1.5
221	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	DC Voltage	IEC 60079-11: Edition 6.0 Cls. 7.4.4
222	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	DC Voltage	IS/IEC 60079-11: Cls. 7.4.
223	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Dielectric Withstanding Voltage (HV Test)	IEC 60079-11: Edition 6.0 Cls. 10.3
224	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Dielectric Withstanding Voltage (HV Test)	IS/IEC 60079-11: Cl.10.3
225	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Force	IEC 60079-11: Edition 6.0 Cls. 10.6.1

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5637	**Page No**	18 of 42
Validity	14/03/2020 to 13/03/2022*	**Last Amended on**	-

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
226	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Force	IS/IEC 60079-11: Cls.10.6.1
227	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Marking	IEC 60079-11: Edition6.0 Cls. 12
228	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Marking	IS/IEC 60079-11: Cls. 12,
229	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Spark Test	IEC 60079-11: Edition 6.0 Cls. 10.1
230	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Spark Test	IS/IEC 60079-11: Cls.10.1,
231	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Spark Test : DC Current	IEC 60079-11: Edition 6.0 Cls. 10.1
232	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Spark test, DC Current	IS/IEC 60079-11: Cl. no.10.1
233	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Spark Test: Gas Mixture (Vol%)	IEC 60079-11: Edition 6.0 Cls. 10.1
234	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Spark Test: Gas Mixture (Vol%)	IS/IEC 60079-11: Cls.10.1
235	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Spark Test: Time	IEC 60079-11: Edition 6.0 Cls. 10.1
236	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Spark Test: Time	IS/IEC 60079-11: Cls.10.1,
237	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Temperature rise test of battery	IEC 60079-11 Edition 6.0 Cl. 10.5.3
238	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 11, Equipment Protection by Intrinsic Safety 'i',	Temperature rise test of battery	IS/IEC 60079-11 Cl. 10.5.3
239	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 15, Equipment Protection by Type of Protection 'nR',	Electric Strength Test	IEC 60079-15: Clause 6.2
240	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 15, Equipment Protection by Type of Protection 'nR',	Surface Temperature	IEC 60079-15: Cls. 5
241	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 15, Equipment Protection by Type of Protection 'nA' & 'nR',	Clearance	IS/IEC 60079-15: Clause 6.4
242	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 15, Equipment Protection by Type of Protection 'nA' & 'nR',	Creepage distance	IS/IEC 60079-15: Clause 6.4
243	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 15, Equipment Protection by Type of Protection 'nA' & 'nR',	Electric Strength Test	IS/IEC 60079-15: Clause.6.5

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5637	**Page No**	19 of 42
Validity	14/03/2020 to 13/03/2022*	**Last Amended on**	-

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
244	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 15, Equipment Protection by Type of Protection 'nA' & 'nR',	Radial Air Gap	IS/IEC 60079-15: Clause.8
245	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 15, Equipment Protection Protection by Type of 'nR',	Test for restricted Breathing enclosure	IEC 60079-15: Cls. 11.3
246	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 15, Equipment Protection Protection by Type of 'nA' & 'nR',	Comparative tracking Index(CTI)	Table 3 of IS/ IEC 60079-15
247	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 15, Equipment Protection Protection by Type of 'nA' & 'nR',	Surface Temperature	IS/IEC 60079-15: Cls. 5
248	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 15, Equipment Protection Protection by Type of 'nA' & 'nR',	Test for restricted Breathing enclosure	IS/IEC 60079-15: Ed.4.0, Cls 22.6
249	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmosphere Part 15, Equipment Protection Protection by Type of 'nA' & 'nR',	Thermal Endurance to Heat	IS/IEC 60079-15: Ed.4.0, Cls. 22.3.1.1
250	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety "e"	Cage rotor construction	IS/IEC 60079-7: Cls. 6.2.3.2,
251	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety "e"	Cage rotor construction	IS/IEC 60079-7: Ed.5.0,Cls. 6.2.3.2
252	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety "e"	Clearance	IS/IEC 60079-7: Cls. 4,
253	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety "e"	Clearance	IS/IEC 60079-7: Ed 5.0, Cls 4
254	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety "e"	Conductor dimension	IS/IEC 60079-7: Cls. 4,
255	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety "e"	Conductor dimension	IS/IEC 60079-7: Ed 5.0, Cls 4
256	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety "e"	Creepage distance	IS/IEC 60079-7: Cls. 4,
257	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety "e"	Creepage distance	IS/IEC 60079-7: Ed 5.0, Cls 4
258	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety "e"	Determination of starting current ratio	IEC 60079-7: Ed.5.0,Cls. 6.2.1 Annexure A
259	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety "e"	Determination of starting current ratio	IS/IEC 60079-7: Cls. 6.2.1, & Annexure A
260	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety "e"	Determination of Time tE	IS/IEC 60079-7: Annexure A
261	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety "e"	Determination of Time tE	IS/IEC 60079-7: Ed.5.0, Annexure A

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5637	**Page No**	20 of 42
Validity	14/03/2020 to 13/03/2022*	**Last Amended on**	-

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
262	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety “e”	Dielectric Strength Test	IS/IEC 60079-7: Cls. 6.1
263	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety “e”	Dielectric Strength Test	IS/IEC 60079-7: Ed 5.0, Cls 6.1
264	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety “e”	General Purpose connection and junction boxes measurement of temperature and power dissipated	IS/IEC 60079-7: Cls. 6.7,
265	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety “e”	General Purpose connection and junction boxes measurement of temperature and power dissipated	IS/IEC 60079-7: Ed.5.0, Cls. 6.8
266	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety “e”	Supplementary requirements	IS/IEC 60079-7: Cls. 5,
267	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 7 Equipment Protection by Increased Safety “e”	Supplementary requirements	IS/IEC 60079-7: Ed 5.0, Cls 5
268	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Determination of explosion Pressure (reference pressure)	IS/IEC 60079-1: Cl. no. 15.1.2
269	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Determination of explosion Pressure (reference pressure)	IS/IEC 60079-1: Cl. no. 15.2.2
270	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Flammability Test – Non Metallic Parts	IS/IEC 60079-1: Cl. no. 19.3.2
271	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Impact Test for Ex thread adapters	IS/IEC 60079-1: Edition 7.0 Cls. C 3.4.2
272	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Impact Test for Ex thread adapters	IS/IEC 60079-1: Cls. C 3.4.2
273	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Over Pressure Test - 3 X Ref Pressure	IS/IEC 60079-1: Cl. no. 15.2.3.2
274	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Over Pressure Test – 1.5 X Ref. Pressure, 4 X Ref. Pressure	IS/IEC 60079-1: Cl. no. 15.1.3.1
275	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Over Pressure Test – 1.5 X Ref. Pressure, 4 X Ref. Pressure	IS/IEC 60079-1: Cl. no. 15.2.3.2
276	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Over Pressure Test for Ex stopping plugs/Blanking elements	IS/IEC 60079-1: 2014 Edition 7.0 Cls. C 3.3.2
277	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Over Pressure Test for Ex stopping plugs/Blanking elements	IS/IEC 60079-1: Cl. no. C 3.3.2

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 21 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic 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- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Over pressure test for Ex thread adaptors	IS/IEC 60079-1: Cls. C 3.4.3
279	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Over pressure test for Ex thread adaptors	IS/IEC 60079-1: Edition 7.0 Cls. C 3.4.3
280	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Over Pressure Test for Ex-component Enclosures	IS/IEC 60079-1: Cls. D.3.7
281	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Over Pressure Test for Ex-component Enclosures	IS/IEC 60079-1: Edition 7.0 Cls. D 3.7
282	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Pressure Determination with Obstruction Plate	IS/IEC 60079-1: Cls. D.3.6
283	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Pressure Determination with Obstruction Plate	IS/IEC 60079-1: Edition 7.0 Cl. D 3.6
284	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Test for Non- Transmission of an internal ignition	IS/IEC 60079-1: Cl. 15.3
285	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Test for Non- Transmission of an internal ignition	IS/IEC 60079-1: Cl. no. 15.2
286	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Tests for flameproofness including ability to withstand pressure, Erosion by flame and Non Transmission of internal ignition	IS/IEC 60079-1: Cl no.. 19.3 & Cl. no. 19.4
287	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Tests for flameproofness including ability to withstand pressure, Erosion by flame and Non Transmission of internal ignition	IS/IEC 60079-1: Cl. no. 19.3.1
288	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Torque Test for Ex stopping plugs/Blanking elements	IS/IEC 60079-1 (Cl. C 3.3.1)
289	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Torque Test for Ex stopping plugs/Blanking elements	IS/IEC 60079-1: Cl. no. C 3.3.1
290	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Torque Test for Ex thread adapters (Torque test)	IS/IEC 60079-1 (Cl. C 3.4.1)
291	ELECTRICAL- SAFETY TESTING FACILITY	Explosive Atmospheres Part 1 Equipment Protection by Flameproof Enclosures “d”	Torque Test for Ex thread adapters (Torque test)	IS/IEC 60079-1: Cls. C 3.4.1
292	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	A.C power frequency voltage test , Cl : 6.10.2.5	IEC 62052-31:2015, Edition 1.0

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 22 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
293	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Screws , current carrying parts & connectors cl. 18	IEC 61347-2-13:2015+AMD1:2017 CSV ,IS 15885(Part 2/Sec 13):2012 (REAFFIRMED :2017)
294	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Clearance and Creepage distances cl.13	IEC 60065:2014-06/ IS 616
295	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements: Amplifiers / Optical Disc Players with built in amplifiers; Power adapter for Audio, Video & similar Electronic apparatus; Loud speakers / Head phones;	Resistance to fire cl.20	IEC 60065:2014-06/ IS 616
296	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Components cl.14	IEC 60065:2014-06/ IS 616
297	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Constructional requirements with regard to the protection against electric shock cl.8	IEC 60065:2014-06/ IS 616
298	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Insulation requirements cl.10	IEC 60065:2014-06/ IS 616
299	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Electric shock hazard under normal operating conditions cl.9.1.7	IEC 60065:2014-06/ IS 616
300	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Mechanical strength of picture tube and protection against the effects of implosion cl.18	IEC 60065:2014-06/ IS 616
301	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Hazardous radiation cl. 6.1	IEC 60065:2014-06/ IS 616
302	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Heating under normal operating conditions cl. 7	IEC 60065:2014-06/ IS 616
303	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Constructional requirements with regard to the protection against electric shock cl.8	IEC 60065:2014-06/ IS 616
304	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Electric shock hazard under normal operating conditions cl.9	IEC 60065:2014-06/ IS 616
305	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Electrical connections and mechanical fixings cl.17	IEC 60065:2014-06/ IS 616
306	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	External Flexible Cords cl.16	IEC 60065:2014-06/ IS 616
307	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Fault conditions Cl.11	IEC 60065:2014-06/ IS 616

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5637	**Page No**	23 of 42
Validity	14/03/2020 to 13/03/2022*	**Last Amended on**	-

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
308	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Fault conditions Cl.11	IEC 60065:2014-06/ IS 616
309	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Impact Test Cl.12.7.3.5	IEC 60065:2014-06/ IS 616
310	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Marking cl. 5	IEC 60065:2014-06/ IS 616
311	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Provision for protective earthing cl.15.2	IEC 60065:2014-06/ IS 616
312	ELECTRONICS- SAFETY TESTING FACILITY	Audio, Video And Similar Electronic Apparatus – Safety Requirements	Stability and mechanical Hazards cl.19	IEC 60065:2014-06/ IS 616
313	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	A.C power frequency voltage test , Cl : 6.10.4.4.2.2	IEC 62052-31 (Edition 1.0)
314	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	A.C power frequency voltage test , Cl : 6.10.4.4.2.2	IEC 62052-31 (Edition 1.0)
315	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	A.C power frequency voltage test , Cl : 6.10.2.5	IEC 62052-31 (Edition 1.0)
316	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Clearances , Cl: 6.7.2.2	IEC 61010-1 (Edition 3.0)
317	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Components and subassemblies , Cl: 13.0	IEC 62052-31 (Edition 1.0)
318	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Connection to External Circuit : Cl : 6.6	IEC 61010-1 (Edition 1.0)
319	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Creepage distances , Cl : 6.7.2.3	IEC 62052-31 (Edition 1.0)
320	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	DC voltage test Cl : 6.10.2.6	IEC 62052-31 (Edition 1.0)
321	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Dielectric test on sub - assemblies , Cl : 6.10.4.4	IEC 62052-31 (Edition 1.0)
322	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Equipment temperature limits and resistance to heat, Cl : 10.0	IEC 62052-31 (Edition 1.0)

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	TC-5637
Validity	14/03/2020 to 13/03/2022*

Last Amended on -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
323	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Humidity treatment Cl : 6.10.4.2	IEC 62052-31 (Edition 1.0)
324	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Humidity treatment : Cl : 6.10.4.2	IEC 62052-31
325	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Impulse voltage Cl : 4.4	IEC 62052-31 (Edition 1.0)
326	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Impulse voltage test , Cl : 6.10.4.3.3	IEC 62052-31 (Edition 1.0)
327	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Information & Marking requirements , cl : 5.0	IEC 62052-31 (Edition 1.0)
328	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Insulation Requirements	IEC 62052-31 (Edition 1.0)
329	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Limit values for Accessibility parts Cl: 6.3	IEC 62052-31 (Edition 1.0)
330	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Long term over voltage test , Cl : 6.10.3.2	IEC 62052-31 (Edition 1.0)
331	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Non metallic enclosure, Cl : 10.5.1	IEC 62052-31 (Edition 1.0)
332	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Primary means of Protection, Cl : 6.4	IEC 62052-31 (Edition 1.0)
333	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Protection against Electric Shock, Cl : 6.0	IEC 62052-31 (Edition 1.0)
334	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Protection against liberated gases and substances , explosion and implosion , Cl : 12.0	IEC 62052-31 (Edition 1.0)
335	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Protection against mechanical hazards, Cl: 7.0	IEC 62052-31 (Edition 1.0)

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5637	**Page No**	25 of 42
Validity	14/03/2020 to 13/03/2022*	**Last Amended on**	-

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
336	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Protection against penetration of dust & water , Cl : 11.0	IEC 62052-31 (Edition 1.0)
337	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Protection against spread of fire , Cl : 9.0	IEC 62052-31 (Edition 1.0)
338	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Protective Bonding : Additional means of protection , Cl : 6.5.2	IEC 62052-31 (Edition 1.0)
339	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Provision for lifting and carrying, Cl : 7.3	IEC 62052-31 (Edition 1.0)
340	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Resistance to mechanical stresses , Cl : 8.0	IEC 62052-31 (Edition 1.0)
341	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Risk assessment, Cl : 15.0	IEC 62052-31 (Edition 1.0)
342	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Sharp edges, Cl : 7.2	IEC 62052-31 (Edition 1.0)
343	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Spring hammer test, Cl : 8.2	IEC 62052-31 (Edition 1.0)
344	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Temperature measurement of heating equipment	IEC 62052-31 (Edition 1.0)
345	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- general requirements, tests and test conditions- Part 31: Product safety requirements and tests	Tracking Index , Cl : 6.7.2.3	IEC 62052-31 (Edition 1.0)
346	ELECTRONICS- SAFETY TESTING FACILITY	Electricity metering equipment (AC)- General requirements, tests and test conditions-Part 31: Product safety requirement and tests	Accessibility, Cl : 6.2	IEC 62052-31 (Edition 1.0)
347	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Abnormal operation cl.19.7 (maximum winding temperature)	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 26 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic 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	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Clearances, Creepage distances and solid Insulation. cl.29	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:200
349	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Components Cl. 24	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
350	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Constructions cl.22	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
351	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Electric strength cl. 16	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
352	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Electric strength at operating temperature cl. 16.3	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 27 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
353	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Endurance cl.18	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
354	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Heating cl. 11	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
355	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Internal wiring cl.23	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
356	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Leakage current and electric strength cl. 16	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
357	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Leakage current and electric strength at operating temperature cl. 13	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5637	**Page No**	28 of 42
Validity	14/03/2020 to 13/03/2022*	**Last Amended on**	-

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
358	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Marking and Instructions cl. 7	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
359	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Mechanical strength cl.21	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
360	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Moisture resistance cl. 15 Moisture resistance cl. 15	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
361	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Overload protection of transformers and associated circuits cl.17	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
362	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Power input and current cl. 10	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5637	**Page No**	29 of 42
Validity	14/03/2020 to 13/03/2022*	**Last Amended on**	-

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic 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	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Power input and current cl. 10	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
364	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Protection against access to live parts cl. 8	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
365	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Provision for earthing Cl 27	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
366	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Radiation, Toxicity and similar Hazards cl.32	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
367	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Resistance to heat and fire cl. 30	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5637	**Page No**	30 of 42
Validity	14/03/2020 to 13/03/2022*	**Last Amended on**	-

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
368	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Resistance to rusting cl. 31	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
369	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Screws and connection cl. 28	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
370	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Stability and mechanical hazards Cl 20	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
371	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Starting of motor operated appliances cl. 9	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
372	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Supply connections and external flexible cords cl. 25	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 31 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
373	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Terminals for external conductors cl. 26	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
374	ELECTRONICS- SAFETY TESTING FACILITY	House Hold and Similar Electrical Appliances- Safety- Part 1- General Requirements, Part 2-25: Particular requirements for Microwave Ovens, including combination Micro Ovens & Part 2-26: Clocks	Transient Over Voltages cl. 14	IEC 60335-1:2010+AMD1:2013+AMD2:2016 CSV, IEC 60335-2-25:2010+AMD1:2014+AMD2:2015 CSV, IEC 60335-2-26:2010+AMD1:2008 CSV , IS 302-2-26:2014, IS 302-2-25:2014, IS 302-1:2008
375	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Connection to cable distribution system cl.7	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)
376	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Connection to cable distribution system cl.7.4.3 (impulse test)	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)
377	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Connection to telecommunication networks cl.6	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)
378	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Connection to telecommunication networks cl.6.2.2.1 (impulse test)	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 32 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
379	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Connection to telecommunication networks cl.6.2.2.3	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)
380	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Durability cl.1.7.11	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015 (Reaffirmed 2016)
381	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- Safety Part 1 General requirements	Electrical requirements and simulated abnormal conditions cl.5	IEC 60950-1:2005+AMD1:2009+AMD2:2013CSV IS13252(Part 1):2010 (Reaffirmed 2016)
382	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Electrical requirements and simulated abnormal conditions cl.5.1 (Touch current and protective conductor current)	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)
383	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Electrical requirements and simulated abnormal conditions cl.5.2 (Electric strength)	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)
384	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Input current cl.1.6.2	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)
385	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Insulation of conductors cl.3.1.4	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 33 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic 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	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Physical requirements cl. 4	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)
387	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- Safety Part 1 General requirements	Physical requirements cl. 4	IEC 60950-1:2005+AMD1:2009+AMD2:2013CSV IS13252(Part 1):2010 (Reaffirmed 2016)
388	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Physical requirements cl. 4.2 (Mechanical strength)	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)
389	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Power interface/ Input current cl.1.6.2	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)
390	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Protection from hazards cl. 2	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)
391	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- Safety Part 1 General requirements	Protection from hazards cl. 2	IEC 60950-1:2005+AMD1:2009+AMD2:2013CSV IS13252(Part 1):2010 (Reaffirmed 2016)
392	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Protection from hazards cl. 2.1.1.1 (Access to energized parts)	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)
393	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Protection from hazards cl. 2.1.1.1 (Access to energized parts)	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5637	**Page No**	34 of 42
Validity	14/03/2020 to 13/03/2022*	**Last Amended on**	-

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
394	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Protection from Hazards, Cl. 2	IEC 60950-1:2005+AMD1:2009+AMD2:2013CSV IS13252(Part 1):2010 (Reaffirmed 2016)
395	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Temperature limits for materials cl. 4. 5.3	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)
396	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Wiring , connections and supply cl.3	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015 RA
397	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Wiring , connections and supply cl.3.1.4 (Insulation of conductors)	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)
398	ELECTRONICS- SAFETY TESTING FACILITY	Information technology equipment- safety Part 1 General requirements	Wiring , connections and supply cl.3.2.2 (Multiple supply connections)	IEC 60950-1:2005+AMD1:2009+AMD2:2013 CSV,IS13252(Part 1):2010 + AMD1:2013+AMD2:2015(Reaffirmed 2016)
399	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Components cl. 14	IEC 61347-2-13:2015+AMD1:2017 CSV ,IS 15885(Part 2/Sec 13):2012 (REAFFIRMED :2017)
400	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Creepage & clearance cl. 13	IEC 61347-2-13:2015+AMD1:2017 CSV ,IS 15885(Part 2/Sec 13):2012 (REAFFIRMED :2017)
401	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Electric strength cl. 12	IEC 61347-2-13:2015+AMD1:2017 CSV ,IS 15885(Part 2/Sec 13):2012 (REAFFIRMED :2017)
402	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Marking , CL 7.0	IEC 61347-2-13:2015+AMD1:2017 CSV;IS :15885(PART2/SEC13:2012) REAFFIRME 2017

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 35 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
403	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Moisture Resistance & Insulation Resistance cl. 11	IEC 61347-2-13:2015+AMD1:2017 CSV ,IS 15885(Part 2/Sec 13):2012 (REAFFIRMED :2017)
404	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Moisture Resistance & Insulation Resistance cl. 11	IEC 61347-2-13:2015+AMD1:2017 CSV ,IS 15885(Part 2/Sec 13):2012 (REAFFIRMED :2017)
405	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Protection against accidental contact with live parts cl. 8	IEC 61347-2-13:2015+AMD1:2017 CSV ,IS 15885(Part 2/Sec 13):2012 (REAFFIRMED :2017)
406	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Provision for earthing cl. 10	IS 13021 (Pt. I):1991/ IEC 61347-2-3:2011-05 IEC 61347-2-13:2014-09 IS15885(Part 2/Sec 13):2012
407	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Resistance to corrosion cl. 20	IEC 61347-2-13:2015+AMD1:2017 CSV ,IS 15885(Part 2/Sec 13):2012 (REAFFIRMED :2017)
408	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Resistance to heat & fire cl. 19	IEC 61347-2-13:2015+AMD1:2017 CSV ,IS 15885(Part 2/Sec 13):2012 (REAFFIRMED :2017)
409	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Resistance to heat & fire cl. 19	IEC 61347-2-13:2015+AMD1:2017 CSV ,IS 15885(Part 2/Sec 13):2012 (REAFFIRMED :2017)
410	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Screws , current carrying parts & connectors cl. 18	IEC 61347-2-13:2015+AMD1:2017 CSV ,IS 15885(Part 2/Sec 13):2012 (REAFFIRMED :2017)
411	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Terminal cl. 9	IEC 61347-2-13:2015+AMD1:2017 CSV ,IS 15885(Part 2/Sec 13):2012 (REAFFIRMED :2017)
412	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Terminal cl. 9	IEC 61347-2-13:2015+AMD1:2017 CSV ,IS 15885(Part 2/Sec 13):2012 (REAFFIRMED :2017)

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 36 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
413	ELECTRONICS- SAFETY TESTING FACILITY	Lamp Controlgear- Part 2-13: Particular requirements for DC or AC supplied Electronic Control gear for LED Modules	Transformer heating cl. 15	IEC 61347-2-13:2015+AMD1:2017 CSV ,IS 15885(Part 2/Sec 13):2012 (REAFFIRMED :2017)
414	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Terminals cl. 10	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012
415	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Construction cl. 4	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012
416	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Creepage distances and clearances cl. 11	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012
417	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Creepage distances and clearances cl. 11	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012
418	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Endurance tests and thermal test cl. 12	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 37 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
419	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Insulation resistance and electric strength, touch current and protective conductor current, cl. 10.0	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012
420	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Marking cl. 6	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012
421	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Protection for earthing cl. 7	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012
422	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Protective against electric shock cl. 8	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012
423	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Resistance of tracking cl. 13.4	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012
424	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Resistance to Dust, solid objects and Moisture cl. 9	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 38 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
425	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Resistance to heat and fire cl. 13.2, 13.3	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012
426	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Screw less terminals and electrical connections cl. 15	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012
427	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Screw terminals cl. 14	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012
428	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Screw terminals cl. 14	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012
429	ELECTRONICS- SAFETY TESTING FACILITY	Luminaries, Part 1 General requirements and tests	Screwless terminal and Electrical connections cl.15	IEC 60598-1:2014+AMD1:2017 CSV / IS 10322-1 :2014 (Reaffirmed 2017)/ IEC 60598-2-1:2014 + AMD1:2017 CSV/ IEC 60598-2-3:2011-11/ IEC 60598-2-5 :2015-08 IS10322 (part 5/ Sec-1): 2012
430	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Circuits or components used as Transient over voltage limiting devices , cl no. 14.8	IEC 61010-1 (Edition 3.0)
431	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Clearances and creepage distances, Cl : 6.7.1.2	IEC 62052-31 (Edition 3.0)
432	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Components and subassemblies , Cl: 14.0	IEC 61010-1 (Edition 3.0)
433	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Connection to External Circuit : Cl : 6.6	IEC 62052-31 (Edition 1.0)

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 39 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
434	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Creepage distances , Cl : 6.7.2.3	IEC 61010-1 (Edition 3.0)
435	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for Electrical equipment for measurement, control and laboratory use	Determination of accessible parts, Cl : 6.2	IEC 61010-1 (Edition 3.0)
436	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Drop test , cl no. 8.3	IEC 61010-1 (Edition 3.0)
437	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Dynamic test, cl no. 8.2.2	IEC 61010-1 (Edition 3.0)
438	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Hazards resulting from application , cl no. 16.0	IEC 61010-1 (Edition 3.0)
439	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Information & Marking requirements , cl : 5.0	IEC 61010-1 (Edition 3.0)
440	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Insulation Requirements	IEC 61010-1 (Edition 3.0)
441	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Limit values for Accessibility parts Cl: 6.3	IEC 61010-1 (Edition 3.0)
442	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Marking and documentation, Cl : 5	IEC 61010-1 (Edition 3.0)
443	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Primary means of Protection , Cl : 6.4	IEC 61010-1 (Edition 3.0)
444	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Procedure for voltage tests, Cl : 6.8	IEC 61010-1 (Edition 3.0)
445	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for Electrical equipment for measurement, control and laboratory use	Protection against electric shock , Cl : 6.0	IEC 61010-1 (Edition 3.0)
446	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Protection against electric shock, Cl : 6.0	IEC 61010-1 (Edition 3.0)
447	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Protection against Electric Shock, Cl : 6.0	IEC 61010-1 (Edition 3.0)
448	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Protection against hazards from liquids, Cl : 11.0	IEC 61010-1 (Edition 3.0)
449	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Protection against hazards from liquids, Cl : 11.2	IEC 61010-1 (Edition 3.0)
450	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Protection against liberated gases and substances, explosion and implosion, cl no. 13	IEC 61010-1 (Edition 3.0)
451	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Protection against mechanical hazards, Cl: 7.0	IEC 61010-1 (Edition 3.0)

SCOPE OF ACCREDITATION

Laboratory Name :	ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5637	**Page No**	40 of 42
Validity	14/03/2020 to 13/03/2022*	**Last Amended on**	-

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
452	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Protection against spread of fire, Cl : 9.0	IEC 61010-1 (Edition 3.0)
453	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Resistance to heat, Cl : 10.0	IEC 61010-1 (Edition 3.0)
454	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Resistance to mechanical stresses , Cl : 8.0	IEC 61010-1 (Edition 3.0)
455	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Resistance to mechanical stresses , Cl : 8.0	IEC 61010-1 (Edition 3.0)
456	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Risk assessment, Cl : 17.0	IEC 61010-1 (Edition 3.0)
457	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Static test , cl no. 8.2.1	IEC 61010-1 (Edition 3.0)
458	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Temperature Cl : 4.4.4.2	IEC 61010-1 (Edition 3.0)
459	ELECTRONICS- SAFETY TESTING FACILITY	Safety requirements for electrical equipment for measurement, control and laboratory use	Testing in single fault conditions Cl : 4.4	IEC 61010-1 (Edition 3.0)
460	ELECTRONICS- SAFETY TESTING FACILITY	Self Ballasted LED Lamps for general Lighting Services Part 1 Safety requirements	Marking cl. 5	IS 16102 (Part 1): 2012 RA
461	ELECTRONICS- SAFETY TESTING FACILITY	Self Ballasted LED Lamps for general Lighting Services Part 1 Safety requirements	Cap temperature cl. 10	IS 16102 (Part 1): 2012 RA
462	ELECTRONICS- SAFETY TESTING FACILITY	Self Ballasted LED Lamps for general Lighting Services Part 1 Safety requirements	Creepage distances and clearances cl. 14	IS 16102 (Part 1): 2012 RA
463	ELECTRONICS- SAFETY TESTING FACILITY	Self Ballasted LED Lamps for general Lighting Services Part 1 Safety requirements	Fault Condition cl. 13	IS 16102 (Part 1): 2012 RA
464	ELECTRONICS- SAFETY TESTING FACILITY	Self Ballasted LED Lamps for general Lighting Services Part 1 Safety requirements	Insulation resistance and electric strength after humidity treatment cl. 8.1.1 & cl. 8..2	IS 16102 (Part 1): 2012 RA
465	ELECTRONICS- SAFETY TESTING FACILITY	Self Ballasted LED Lamps for general Lighting Services Part 1 Safety requirements	Interchangeability cl. 6	IS 16102 (Part 1): 2012 RA
466	ELECTRONICS- SAFETY TESTING FACILITY	Self Ballasted LED Lamps for general Lighting Services Part 1 Safety requirements	Mechanical Strength cl. 9	IS 16102 (Part 1): 2012 RA
467	ELECTRONICS- SAFETY TESTING FACILITY	Self Ballasted LED Lamps for general Lighting Services Part 1 Safety requirements	Protection against Electric Shock cl. 7	IS 16102 (Part 1): 2012 RA
468	ELECTRONICS- SAFETY TESTING FACILITY	Self Ballasted LED Lamps for general Lighting Services Part 1 Safety requirements	Resistance to flame and ignition cl. 12	IS 16102 (Part 1): 2012 RA
469	ELECTRONICS- SAFETY TESTING FACILITY	Self Ballasted LED Lamps for general Lighting Services Part 1 Safety requirements	Resistance to heat cl. 11 (Ball Pressure)	IS 16102 (Part 1): 2012 RA

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 41 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
470	ELECTRONICS- SAFETY TESTING FACILITY	Self Ballasted LED Lamps for general Lighting Services Part 1 Safety requirements	Resistance to heat cl. 11 (Ball Pressure)	IS 16102 (Part 1): 2012 RA
471	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Connection to telecommunication networks cl.9	IS 16242 (Part 1)
472	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Connection to telecommunication networks cl.9	IS 16242 (Part 1)
473	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Electrical requirements and simulated abnormal conditions cl.8	IS 16242 (Part 1)
474	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Marking cl. 4.7	IS 16242 (Part 1)
475	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Over current and earth fault condition Cl 5.5	IS 16242 (Part 1)
476	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Over current and earth fault condition Cl 5.5	IS 16242 (Part 1)
477	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Physical requirements cl. 7	IS 16242 (Part 1)
478	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Physical requirements cl. 7	IS 16242 (Part 1)
479	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Physical requirements cl. 7	IS 16242 (Part 1)
480	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Protection against electric shock and electrical hazard cl.5.1	IS 16242 (Part 1)
481	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Protective Earthing and bonding Cl 5.3.2 & 5.3.3	IS 16242 (Part 1)
482	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Requirement of auxiliary circuits Cl 5.2	IS 16242 (Part 1)
483	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Requirement of auxiliary circuits Cl 5.2	IS 16242 (Part 1)
484	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Safety interlock Cl 5.6	IS 16242 (Part 1)
485	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Safety interlock Cl 5.6	IS 16242 (Part 1)
486	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Wiring, connections and supply cl. 6	IS 16242 (Part 1)

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (EAST), BLOCK DN 63, SECTOR V, SALT LAKE, KOLKATA, 24 PARAGANAS NORTH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5637 **Page No** 42 of 42

Validity 14/03/2020 to 13/03/2022* **Last Amended on** -

*The validity is extended for one year up to 13.03.2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic 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	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Wiring, connections and supply cl. 6	IS 16242 (Part 1)
488	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Wiring, connections and supply cl. 6	IS 16242 (Part 1)
489	ELECTRONICS- SAFETY TESTING FACILITY	Uninterruptible Power Supply (UPS) Part 1 General & safety requirements for UPS	Wiring, connections and supply cl. 6	IS 16242(Part 1)