National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ULTRA HIGH VOLTAGE RESEARCH LABORATORY, CENTRAL POWER RESEARCH INSTITUTE, MEDIPALLY P.O., WARANGAL ROAD, UPPAL, MEDCHAL MALKAJGIRI, HYDERABAD, TELANGANA, INDIA

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic 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- INDUCTORS & TRANSFORMERS	Capacitive Voltage Transformer	Corona Inception and Extinction Voltage Test / Corona test / Corona Extinction voltage test	SOP 1 / SOP2-2015
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitive Voltage Transformer	Ferro-resonance test	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2012 / IS 16227 (Part 5):2015, RA -2020
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor voltage dividers	Measurement of stray capacitance	IEC 61869-1: 2007 / IS/IEC 16227 (Part 1):2016 / IEC 61869-5:2011 / IS/IEC 16227 (Part 5)2015, RA:2020 / IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998, RA-2018
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer	Chopped impulse voltage test	IEC 61869-1: 2007 / IS/IEC 16227 (Part 1):2016 / IEC 61869-5:2011 / IS/IEC 16227 (Part 5): 2015, RA -2020
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer	Enclosure tightness test at ambient temperature	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IS 16227 (Part 5): 2015, RA-2020
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer	Lightning impulse voltage test on primary terminals	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IS 16227 (Part 5):2015 : RA -2020
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer	Power-frequency voltage withstand tests on secondary terminals	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IS 16227 (Part 5):2015, RA-2020
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer	Temperature-rise test	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IS 16227 (Part 5):2015, RA-2020
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformer	Transmitted overvoltage test	IEC 60358-1:2012 / IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IS 16227 (Part 5):2015, RA-2020

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10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	Capacitance measurement at power frequency	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 60358-1:2012 / IEC 60358-2:2013 / IEC 61869-5:2011 / IS 16227 (Part 5):2015, RA-2020
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	Electromagnetic compatibility test	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IS 16227 (Part 5):2015, RA-2020
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	Equivalent series resistance	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998, RA:2018 / IEC 61869-5:2011 / IS/IEC 16227 (Part 5)2015, RA -2020
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	Measurement of high frequency capacitance	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998, RA:2018 / IEC 61869-5:2011 / IS/IEC 16227 (Part 5)2015, RA -2020
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	Measurement of stray conductance	IEC 61869-1: 2007 / IS/IEC 16227 (Part 1):2016 / IEC 61869-5:2011 / IS/IEC 16227 (Part 5)2015 , RA:2020 / IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998, RA-2018
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	Partial discharge measurement	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IEC 60358-1:2012 / IS 16227 (Part 5):2015, RA-2020
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	Power-frequency Voltage withstand test on primary terminals	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IS 16227 (Part 5):2015, RA-2020
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	Power-frequency voltage withstand tests between sections	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IS 16227 (Part 5):2015, RA-2020
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	Short circuit withstand capability test	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IS 16227 (Part 5):2015, RA-2020

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19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	Switching impulse voltage test (Dry and Wet)	IEC 61869-1:2007 / IEC 60358-1:2012 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IS 16227 (Part 5):2015, RA-2020
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	tan delta measurement at power frequency	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IEC 60358-1:2012 / IS 16227 (Part 5):2015, RA:2020 / IS 9348:1998, RA-2018
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	Test for accuracy (Accuracy Check) (Ratio Error (+- %) & Phase Displacement (+- minutes))	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IS 16227 (Part 5):2015, RA-2020
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	Transient response test	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IS 16227 (Part 5):2015, RA-2020
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	Type test for carrier frequency accessories (Type test for drain Coil- Voltage withstand test)	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 60358-2:2013 / IEC 61869-5:2011 / IS 16227 (Part 5):2015, RA-2020
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	Verification of markings	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IS 16227 (Part 5):2015, RA-2020
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Capacitor Voltage Transformers	Wet test for outdoor type transformers	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-5:2011 / IS 16227 (Part 5):2015, RA-2020
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Combined Transformers	Impulse tests	IEEE C57.13-2016
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Combined Transformers	Impulse voltage test on primary terminals	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IS 16227 (Part 4):2015 / IEC 61869-2:2012 / IS 16227 (Part 2):2016, RA: 2021 / IS 2705 (Part 1):1992, RA:2017 / IEC 61869-3:2011 / IS 16227 (Part 3):2015, RA-2020

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28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Combined transformers	Power-frequency voltage withstand test on primary terminals (Dry and Wet)	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 2705 (Part 1):1992, RA:2017 / IS 16227 (Part 2):2016, RA-2021
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Corona Inception and Extinction voltage test / Corona test/ Corona extinction voltage test	SOP1/SOP2-2015
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Electromagnetic compatibility test	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2: 2012 / IS 16227 (Part-2):2016, RA-2021
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer	High voltage Power frequency withstand test on outdoor current transformer	IS 2705 (Part 1):1992, RA-2017
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Inter-turn overvoltage test	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 2):2016, RA:2021 / IS 2705 (Part 1):1992, RA-2017
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer	Lightning impulse voltage withstand test on primary terminals	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 2):2016 RA:2021 / IS 2705 (Part 1):1992, RA-2017
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer	Measurement of Capacitance	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part-2): 2016, RA-2021
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer	Measurement of Dielectric dissipation factor	2017IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2: 2012 / IS 16227 (Part-2):2016, RA:2021 / IS 2705 (Part-1):1992, RA-2017
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Multiple Chopped impulse test on Primary Terminals	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 2):2016, RA-2021
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Partial Discharge Measurement	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 2):2016, RA:2021 / IS 2705 (Part 1): 1992, RA-2017

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38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer	Power frequency voltage withstand test on primary terminals / winding (Dry & Wet)	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part-2):2016, RA:2021 / IS 2705 (Part 1):1992, RA-2017
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer	Power frequency voltage withstand test on secondary terminals / winding	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 2):2016, RA:2021 / IS 2705 (Part 1): 1992, RA-2017
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer	Power frequency voltage withstand tests between sections	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 2): 2016, RA :2021 / IS 2705 (Part 1):1992, RA-2017
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer	Switching impulse voltage test (Dry & Wet)	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 2):2016, RA:2021 / IS 2705 (Part 1):1992, RA-2017
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer	Temperature-rise test	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2: 2012 / IS 16227 (Part 2):2016, RA:2021 / IS 2705 (Part 1): 1992, RA-2017
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Test for Accuracy (Ratio Error (+- %) & Phase Displacement (+-minutes))	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 2):2016, RA:2021 / IS 2705 (Part 1):1992, RA-2017
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Transmitted over voltage test	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 2):2016 , RA-2021
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Verification of markings	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 2):2016, RA-2021
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Verification of terminal marking and polarity	IS 2705 (Part 1):1992, RA-2017
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer	Wet test for outdoor type transformers	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 1 & 2)-2016

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48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformers	Chopped and multiple chopped impulse voltage withstand test on primary terminals	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 2):2016, RA-2021
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers	Chopped lightning impulse test	IS 2705 (Part 1):1992, RA-2017
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformers	Determination of the instrument security factor (FS) of measuring current transformers	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 2):2016, RA:2021 / IS 2705 (Part 1):1992, RA-2017
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers	Determination of the secondary winding resistance	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 2):2016, RA:2021 / IS 2705 (Part 1):1992, RA-2017
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers	Enclosure tightness test at ambient temperature	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 2):2016, RA -2021
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformers	Test for rated knee point e.m.f. (Ek) and exciting current at Ek	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-2:2012 / IS 16227 (Part 2):2016, RA:2021 / IS 2705 (Part 1):1992, RA-2017
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry-type power and auto transformer	Full wave lightning impulse test	IEC 60076-11-2018
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry-type power and auto transformer	Separate source voltage withstand test	IS 11171:1985, RA-2016
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry-type power and auto transformers	Chopped lightning impulse	IS 11171:1985, RA-2016
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry-type power and auto transformers	Chopped lightning impulse voltage test	IEC 60076-11-2018
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry-type power and auto transformers	Lightning impulse test	IS 11171:1985, RA-2016
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry-type power and auto transformers	Separate-source AC withstand voltage test	IEC 60076-11-2018
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage Transformers	Chopped impulse voltage withstand test on primary terminals	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-3:2011 / IS 16227 (Part 3):2015, RA-2020

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61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage Transformers	Corona Inception and Extinction voltage test / Visible corona test/ Corona extinction voltage test	SOP 1 :2015 / SOP 2-2015
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage Transformers	Electromagnetic Compatibility tests	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-3:2011 / IS 16227 (Part 3):2015, RA-2020
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage Transformers	Enclosure tightness test at ambient temperature	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-3:2011 / IS 16227 (Part 3):2015, RA-2020
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage Transformers	Impulse voltage test on primary terminals	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-3:2011 / IS 16227 (Part 3):2015, RA-2020
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage Transformers	Measurement of capacitance at power frequency	IEC 60358-1:2012 / IEC 61869-3:2011 / IS 16227 (Part 3): 2015 , RA-2020
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage transformers	Measurement of Dielectric dissipation factor at power frequency	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 60358-1:2012 / IEC 61869-3:2011 / IS 16227 (Part 3): 2015 , RA-2020
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage Transformers	Multiple chopped impulse test on primary terminals	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-3:2011 / IS 16227 (Part 3):2015, RA-2020
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage Transformers	Power-frequency voltage withstand tests between sections	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-3:2011 / IS 16227 (Part 3):2015, RA-2020
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage Transformers	Power-frequency voltage withstand tests on secondary terminals	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-3:2011 / IS 16227 (Part 3):2015, RA-2020
70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage Transformers	Short-circuit withstand capability test	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-3:2011 / IS 16227 (Part 3):2015, RA-2020
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage Transformers	Switching impulse voltage withstand test on primary terminals (Dry and wet)	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-3:2011 / IS 16227 (Part 3):2015, RA-2020

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72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage Transformers	Temperature-rise test	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-3:2011 / IS 16227 (Part 3):2015, RA-2020
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage Transformers	Test for accuracy (Ratio Error (+- %) & Phase Displacement (+-minutes))	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-3:2011 / IS 16227 (Part 3):2015, RA-2020
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage Transformers	Transmitted overvoltage test	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-3:2011 / IS 16227 (Part 3):2015, RA-2020
75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Inductive Voltage Transformers	Verification of markings	IEC 61869-1:2007 / IS 16227 (Part 1): 2016 / IEC 61869-3:2011 / IS 16227 (Part 3):2015, RA-2020
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Liquid-Immersed Distribution, Power, and Regulating transformers	Chopped Impulse voltage test	IEEE Std C57.12.90-2015
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Liquid-Immersed Distribution, Power, and Regulating transformers	Lightning impulse test	IEEE Std C57.12.90-2015
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil immersed distribution transformer	Chopped impulse test	IS 1180 (Part 1):2014, RA-2019
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , auto and distribution transformers	Transfer surge test	IEC 60076-3:2013, A1-2018
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, distribution and auto transformers	Chopped lightning impulse test	IS 2026 (Part 3) : 2018 / IEC 60076-3-2013
81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, distribution and auto transformers	Lightning impulse test	IEC 60076-3: 2013, A1-2018
82	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, distribution and auto transformers	Lightning impulse test for the line and neutral terminals	IS 2026 (Part 3) : 2018 / IEC 60076-3-2013
83	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, distribution, traction and auto transformers	Chopped lightning impulse test	BS EN 60076-3:2013, A1-2018
84	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, distribution, traction and auto transformers	Lightning impulse test	BS EN 60076-3:2013, A1-2018
85	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, distribution, traction and auto transformers	Separate source voltage withstand tests	IS 2026 (Part 3) : 2018 / IEC 60076-3-2013
86	ELECTRICAL- INDUCTORS & TRANSFORMERS	Railway applications – Traction transformers and inductors on board rolling stock	Lightning impulse voltage withstand test	IEC 60310-2016
87	ELECTRICAL- INDUCTORS & TRANSFORMERS	Railway applications – Traction transformers and inductors on board rolling stock	Separate source voltage withstand test	IEC 60310-2016

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88	ELECTRICAL- INDUCTORS & TRANSFORMERS	Reactors	Lightning impulse voltage test	IEC 60076-4:2002 / IS 2026-6:2017 / IEC 60076-6-2007
89	ELECTRICAL- INDUCTORS & TRANSFORMERS	Reactors	Separate source voltage withstand test	IS 2026-6:2017/ IEC 60076-6-2007
90	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self ballasted LED Lamps for General Lightning Services	Bending Moment, Axial Pull and Mass	IS 16102 (Part-1):2012. Amd 1: 2015, Amd 2 : 2015, Amd 3-2020
91	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self ballasted LED Lamps for General Lightning Services	Cap Interchangeability	IS 16102 (Part-1):2012. Amd 1: 2015, Amd 2 : 2015, Amd 3-2020
92	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self ballasted LED Lamps for General Lightning Services	Cap Temperature rise test	IS 16102 (Part-1):2012. Amd 1: 2015, Amd 2 : 2015, Amd 3-2020
93	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self ballasted LED Lamps for General Lightning Services	Creepage distance and clearances	IS 16102 (Part-1):2012. Amd 1: 2015, Amd 2 : 2015, Amd 3-2020
94	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self ballasted LED Lamps for General Lightning Services	Dimensions	IS 16102 (Part-2): 2017, Amd 1-2020
95	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self ballasted LED Lamps for General Lightning Services	Electric strength after Humidity treatment	IS 16102 (Part-1):2012. Amd 1: 2015, Amd 2 : 2015, Amd 3-2020
96	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self ballasted LED Lamps for General Lightning Services	Fault Conditions	IS 16102 (Part-1):2012. Amd 1: 2015, Amd 2 : 2015, Amd 3-2020
97	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self ballasted LED Lamps for General Lightning Services	Harmonics and Power factor	IS 16102 (Part-2): 2017, Amd 1-2020
98	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self ballasted LED Lamps for General Lightning Services	Insulation Resistance after humidity treatment	IS 16102 (Part-1):2012. Amd 1: 2015, Amd 2 : 2015, Amd 3-2020
99	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self ballasted LED Lamps for General Lightning Services	Lamp power	IS 16102 (Part-2): 2017, Amd 1-2020
100	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self ballasted LED Lamps for General Lightning Services	Marking	IS 16102 (Part-1):2012. Amd 1: 2015, Amd 2 : 2015, Amd 3:2020 / IS 16102 (Part-2): 2017, Amd 1-2020
101	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self ballasted LED Lamps for General Lightning Services	Mechanical strength - Torsion resistance of Unused Lamps	IS 16102 (Part-1):2012. Amd 1: 2015, Amd 2 : 2015, Amd 3-2020

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102	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self ballasted LED Lamps for General Lightning Services	Resistance to flame and ignition	IS 16102 (Part-1):2012. Amd 1: 2015, Amd 2 : 2015, Amd 3-2020
103	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self ballasted LED Lamps for General Lightning Services	Resistance to Heat	IS 16102 (Part-1):2012. Amd 1: 2015, Amd 2 : 2015, Amd 3-2020
104	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC Circuit Breakers	Artificial pollution tests for outdoor insulators - by salt fog method	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-100:2021 / IS/IEC 62271 (Part 100): 2008, RA:2017 / IS 8704-2018
105	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC Circuit Breakers	Electromagnetic Compatibility test -Emission test from the main circuits / Radio interference voltage test (RIV)	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-100:2021 / IS/IEC 62271 (Part 100): 2008, RA-2017
106	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC Circuit Breakers	Lightning impulse voltage test	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-100:2021 / IS/IEC 62271 (Part 100): 2008, RA-2017
107	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC Circuit Breakers	Partial discharge tests	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-100:2021 / IS/IEC 62271 (Part 100): 2008, RA-2017
108	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC Circuit Breakers	Power-frequency voltage tests (Dry and Wet Conditions)	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-100:2021 / IS/IEC 62271 (Part 100): 2008, RA-2017
109	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC Circuit Breakers	Resistance measurement of contacts and connections in the main circuit as a condition check	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-100:2021 / IS/IEC 62271 (Part 100): 2008, RA-2017
110	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC Circuit Breakers	Switching impulse voltage tests (Dry and Wet conditions)	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-100:2021 / IS/IEC 62271 (Part 100): 2008, RA-2017

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111	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC Circuit Breakers	Visible discharge test/ Corona inception and extinction voltage test / Corona test/Corona extinction voltage test	SOP 1:2015 / SOP 2-2015
112	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC disconnectors and earth switches	Artificial pollution tests for outdoor insulators - by salt fog method	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-102:2018 / IS/IEC 62271 (Part 102):2018 / IS 8704:2018 / IEC 60507-2013
113	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC disconnectors and earth switches	Continuous current tests	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-102:2018 / IS/IEC 62271 (Part 102)-2018
114	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC disconnectors and earth switches	Lightning impulse voltage tests	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-102:2018 / IS/IEC 62271 (Part 102)-2018
115	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC disconnectors and earth switches	Partial discharge tests	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-102:2018 / IS/IEC 62271 (Part 102)-2018
116	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC disconnectors and earth switches	Power-frequency voltage tests (Dry and Wet conditions)	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-102:2018 / IS/IEC 62271 (Part 102)-2018
117	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC disconnectors and earth switches	Radio interference voltage test (RIV) / Electromagnetic Compatibility test -Emission test from the main circuits	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-102:2018 / IS/IEC 62271 (Part 102)-2018
118	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC disconnectors and earth switches	Resistance measurement of contacts and connections in the main circuit as a condition check	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-102:2018 / IS/IEC 62271 (Part 102)-2018
119	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC disconnectors and earth switches	Switching impulse voltage tests (Dry and Wet conditions)	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-102:2018 / IS/IEC 62271 (Part 102)-2018
120	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC disconnectors and earth switches	Visible corona test / Corona test/ Corona inception and extinction voltage test / Corona extinction voltage test	SOP 1:2015 / SOP 2-2015

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121	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC metal enclosed switchgear and controlgear	Lightning impulse voltage tests	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271—200:2021 / IS/IEC 62271 (Part 200):2011, RA -2018
122	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC metal enclosed switchgear and controlgear	Resistance measurement of contacts and connections in the main circuit as a condition check	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271—200:2021 / IS/IEC 62271 (Part 200):2011, RA -2018
123	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC metal enclosed switchgear and controlgear	Visible corona test / Corona test/ Corona inception and extinction voltage test/ Corona extinction voltage test	SOP 1:2015 / SOP 2-2015
124	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC metal-enclosed switchgear and controlgear	Power-frequency voltage tests (Dry and Wet conditions)	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271—200:2021 / IS/IEC 62271 (Part 200):2011, RA -2018
125	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC switches for rated voltages above 1 kV up to and including 52 kV	Continuous current tests	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-103:2021 / IS/IEC 62271 (Part 103):2011, RA-2015
126	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC switches for rated voltages above 1 kV up to and including 52 kV	Lightning impulse voltage tests	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-103:2021 / IS/IEC 62271 (Part 103):2011, RA-2015
127	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC switches for rated voltages above 1 kV up to and including 52 kV	Power-frequency voltage tests (Dry and Wet Conditions)	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-103:2021 / IS/IEC 62271 (Part 103):2011, RA-2015
128	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC switches for rated voltages above 1 kV up to and including 52 kV	Resistance measurement of contacts and connections in the main circuit as a condition check	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-103:2021 / IS/IEC 62271 (Part 103):2011, RA-2015
129	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC switches for rated voltages above 1 kV up to and including 52 kV	Visible corona test / Corona test/ Corona inception and extinction voltage test / Corona extinction voltage test	SOP 1:2015 / SOP 2-2015

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130	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC switches for rated voltages higher than 52 kV	Artificial pollution tests for outdoor insulators - by salt fog method	IEC 60507:2013 / IS 8704:2018 / IEC 62271-104:2020 / IS/IEC 62271 (Part 104):2009, RA-2015
131	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC switches for rated voltages higher than 52 kV	Continuous current tests	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA:2018 / IEC 62271-104:2020 / IS/IEC 62271 (Part 104):2009, RA-2015
132	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC switches for rated voltages higher than 52 kV	Lightning impulse voltage tests	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA:2018 / IEC 62271-104:2020 / IS/IEC 62271 (Part 104):2009, RA-2015
133	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC switches for rated voltages higher than 52 kV	Power-frequency voltage tests (Dry and Wet conditions)	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA:2018 / IEC 62271-104:2020 / IS/IEC 62271 (Part 104):2009, RA-2015
134	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC switches for rated voltages higher than 52 kV	Radio interference voltage (RIV) test / Electromagnetic compatibility tests (EMC) - Emission tests from the main circuits	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA:2018 / IEC 62271-104:2020 / IS/IEC 62271 (Part 104):2009, RA-2015
135	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC switches for rated voltages higher than 52 kV	Resistance measurement of contacts and connections in the main circuit as a condition check	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA:2018 / IEC 62271-104:2020 / IS/IEC 62271 (Part 104):2009, RA-2015
136	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC switches for rated voltages higher than 52 kV	Switching impulse voltage tests (Dry and Wet Conditions)	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA:2018 / IEC 62271-104:2020 / IS/IEC 62271 (Part 104):2009, RA-2015
137	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	AC switches for rated voltages higher than 52 kV	Visible corona test / Corona inception and extinction voltage test/ Corona test/ Corona extinction voltage test	SOP 1:2015 / SOP 2-2015
138	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Gas insulated metal enclosed switchgear	Lightning impulse voltage tests	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA:2018 / IEC 62271-203:2011 / IS/IEC 62271 (Part 203)-2011

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139	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Gas insulated metal enclosed switchgear	Partial discharge tests	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-203:2011 / IS/IEC 62271 (Part 203)-2011
140	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Gas insulated metal enclosed switchgear	Power-frequency voltage tests	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-203:2011 / IS/IEC 62271 (Part 203)-2011
141	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Gas insulated metal enclosed switchgear	Radio interference voltage (RIV) test / Electromagnetic compatibility tests (EMC)	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-203:2011 / IS/IEC 62271 (Part 203)-2011
142	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Gas insulated metal enclosed switchgear	Switching impulse voltage tests	IEC 62271-1:2017, A1:2021 / IS/IEC 62271 (Part 1):2017, RA: 2018 / IEC 62271-203:2011 / IS/IEC 62271 (Part 203)-2011
143	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Gas insulated metal enclosed switchgear	Visible corona test / Corona test	SOP 1:2015 / SOP 2-2015
144	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission lines	Corona Inception and Extinction voltage test / Visible corona test/ Corona extinction voltage test /Corona test	SOP1:2015 / SOP 2 -2015
145	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission lines	Corona test	IEC 61284:1997 / IS 398 (Part 5):1992, RA-2018
146	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductor for overhead transmission lines	Radio interference voltage test	IEC 61284:1997 / IEC 60437:1997 / IS 398 (Part 5):1992, RA-2018
147	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Artificial pollution test for porcelain insulators - by salt fog method	IS 8704:2018 / IEC 60507:2013 / IS 60137:2017 / IS/IEC 60137-2017
148	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Dielectric dissipation factor	IEEE C57.19.00: 2004 / IEEE C57.19.01: 2017 / IEEE C57.19.100-2012
149	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Dry lightning impulse voltage withstand test	IEC 60137:2017 / IS/IEC 60137:2017 / IEEE C57.19.01 -2017

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150	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Dry or wet power-frequency voltage withstand test	IEC 60137:2017 / IS/IEC 60137-2017
151	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Dry or wet switching impulse voltage withstand test	IEC 60137:2017 / IS/IEC 60137-2017
152	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Electromagnetic compatibility tests (EMC)	IEC 60137:2017 / IS/IEC 60137-2017
153	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Long duration power-frequency voltage withstand test (ACLD) along with measurement of partial discharge quantity	IEC 60137:2017 / IS/IEC 60137-2017
154	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Measurement of capacitance	IEEE C57.19.00: 2004 / IEEE C57.19.01:2017 / IEEE.C57.19.100-2012
155	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Measurement of capacitance at ambient temperature	IEC 60137:2017 / IS/IEC 60137-2017
156	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Measurement of dielectric dissipation factor (tan delta) at ambient temperature	IEC 60137:2017 / IS/IEC 60137-2017
157	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Measurement of partial discharge quantity	IEC 60137:2017 / IS/IEC 60137-2017
158	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Power frequency voltage withstand tests (Dry & Wet)	IEEE.C57.19.00:2004 / IEEE C57.19.01: 2017 / IEEE.C57.19.100-2012
159	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Switching impulse voltage withstand test (dry& wet)	IEEEC57.19.01-2017
160	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Tests of tap insulation	IEC 60137:2017 / IS/IEC 60137-2017

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161	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Verification of dimensions	IEC 60137:2017 / IS/IEC 60137-2017
162	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings for alternating voltages	Visible discharge test / Corona inception and extinction voltage test/ Corona extinction voltage test/ Corona test	SOP 1:2015 / SOP 2 -2015
163	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Coupling capacitors and capacitive dividers	AC-withstand test on low-voltage terminal of the equipment and voltage test between low voltage terminal and earth terminal	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998, RA-2018
164	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Coupling capacitors and capacitive dividers	Capacitance measurement at power-frequency	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998, RA-2018
165	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Coupling capacitors and capacitive dividers	Chopped impulse test for a.c. equipment and d.c. dividers	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998, RA:2018 / IEC 61869-5:2011 / IS/IEC 16227 (Part 5) 2015, RA-2020
166	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Coupling capacitors and Capacitive dividers	Discharge test for d.c. coupling/filter capacitor and discharge test	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998,RA-2018
167	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Coupling capacitors and Capacitive dividers	Lightning impulse test	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998, RA:2018 / IEC 61869-5:2011 / IS/IEC 16227 (Part 5):2015, RA-2020
168	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Coupling capacitors and Capacitive dividers	Measurement of High frequency capacitance	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998,RA:2018 / IEC 61869-5:2011 / IS/IEC 16627 (Part 5):2015 RA-2020
169	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Coupling capacitors and Capacitive dividers	Measurement of equivalent series resistance	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998 , RA:2018 / IEC 61869-5:2011 / IS/IEC 16227 (Part 5):2015, RA-2020

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170	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Coupling capacitors and Capacitive dividers	Measurement of stray conductance	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998, RA:2018 / IEC 61869-5: 2011 / IS/IEC 16227 (Part 5):2015, RA-2020
171	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Coupling capacitors and Capacitive dividers	Measurement of tan delta at power-frequency	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998, RA-2018
172	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Coupling capacitors and capacitive dividers	Partial discharge measurement test	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998, RA-2018
173	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Coupling capacitors and Capacitive dividers	Radio Interference voltage test	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998, RA-2018
174	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Coupling capacitors and Capacitive dividers	Switching impulse voltage withstand test (Dry & Wet)	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998, RA:2018 / IEC 61869-5:2011 / IS/IEC 16227 (Part 5)2015, RA-2020
175	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Coupling capacitors and Capacitor dividers	Measurement of Stray capacitance	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998, RA:2018 / IEC 61869-5:2011 / IS/IEC 16227 (Part 5)2015, RA-2020
176	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Coupling capacitors and Capacitor dividers	Wet test for outdoor equipment: AC/DC withstand wet test and AC voltage test dry or wet	IEC 60358-1:2012 / IEC 60358-2:2013 / IS 9348:1998, RA-2018
177	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Fittings for Overhead lines and Substations	Corona test	IEC 61284-1997
178	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage fuses: Current limiting fuses and expulsion fuses	Lightning impulse voltage dry test	IS 9385 (Part 2):2018 / IEC 60282-1:2020 / IEC 60282-2:2008 / IEC 60282-4-2020
179	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage fuses: Current limiting fuses and expulsion fuses	Power-frequency voltage dry and wet test	IS 9385 (Part 2):2018 / IEC 60282-1:2020 / IEC 60282-2:2008 / IEC 60282-4 -2020

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180	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High voltage insulators	Corona inception and extinction voltage test / Corona extinction voltage test/ Visible corona test/Corona test	SOP 1 : 2015 / SOP 2-2015
181	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High voltage insulators	Corona test	IEC 61284-1997
182	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High voltage insulators	Radio interference voltage test	IEC 60437:1997 / IEC 61284-1997
183	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	HV Fuses (Horn gap)	Dry and Wet power frequency voltage withstand test	IEEE C37.40-2003
184	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	HV Fuses (Horn gap)	Dry power frequency voltage withstand test	IEEE C37.40-2003
185	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators	Power frequency puncture test	IS 731:1971, RA:2016 / IS 1445:1977, RA-2019
186	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators and similar equipment up to 800 kV DC system	Dry and Wet DC voltage long duration withstand test	IEC 60060-1-2010
187	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators and similar equipment up to 800 kV DC system	Dry and Wet DC voltage withstand and flashover tests	IEC 61325:1995 / IEC 60060-1-2010
188	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators and similar equipment up to 800 kV DC system	Dry and Wet switching impulse voltage test	IEC 61325:1995 / IEC 60060-1-2010
189	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators and similar equipment up to 800 kV DC system	Dry DC voltage withstand and flashover test, Wet DC voltage withstand and flashover test	IEC 60060-1-2010
190	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators and similar equipment up to 800 kV DC system	Lightning impulse voltage test	IEC 61325:1995 / IEC 60060-1-2010

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191	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators and similar equipment up to 800 kV DC system	Radio Interference Voltage (RIV)	IEC 60437:1997 / IEC 61284-1997
192	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators and similar equipment up to 800 kV DC system	Visible corona test / Corona inception and extinction voltage test/ Corona test	IEC 61284:2017 / SOP 3:2015 / SOP 4 -2015
193	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators for OH lines with a nominal voltage above 1000 V, Insulator strings, long rod insulators strings, pin insulators, line post insulators, traction insulators	Dry lightning-impulse withstand voltage test – using the withstand voltage procedure and using the 50 % flashover voltage procedure	IEC 60383-1:1993 / IEC 60383-2:1993 / IEC 62217:2012 / IEC 60433:2021 / IEC 61109:2008 / IS 731:1971,RA -2016
194	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators for OH lines with a nominal voltage above 1000 V, Insulator strings, long rod insulators strings, pin insulators, line post insulators, traction insulators	Artificial pollution test - by salt fog test	IEC 60507:2013 / IS 8704-2016
195	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators for OH lines with a nominal voltage above 1000 V, Insulator strings, long rod insulators strings, pin insulators, line post insulators, traction insulators	Dry and wet power-frequency flashover voltage	IEC 60383-1:1993 / IEC 60383-2:1993 / IEC 62217:2012 / IEC 60433:2021 / IEC 61109:2008 / IS 731:1971,RA -2016
196	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators for OH lines with a nominal voltage above 1000 V, Insulator strings, long rod insulators strings, pin insulators, line post insulators, traction insulators	Dry and wet power-frequency withstand voltage test	IEC 60383-1:1993 / IEC 60383-2:1993 / IEC 62217:2012 / IEC 60433:2021 / IEC 61109:2008 / IS 731:1971,RA -2016
197	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators for OH lines with a nominal voltage above 1000 V, Insulator strings, long rod insulators strings, pin insulators, line post insulators, traction insulators	Dry or wet switching-impulse withstand voltage tests – using the withstand voltage procedure and using the 50 % flashover voltage procedure	IEC 60383-1:1993 / IEC 60383-2:1993 / IEC 62217:2012 / IEC 60433:2021 / IEC 61109:2008 / IS 731:1971,RA -2016
198	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators for OH lines with a nominal voltage above 1000 V, Insulator strings, long rod insulators strings, pin insulators, line post insulators, traction insulators	Radio Interference Voltage test	IEC 60437:1997 / IS 8263-2018
199	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators for OH lines with a nominal voltage above 1000 V, Insulator strings, long rod insulators strings, pin insulators, line post insulators, traction insulators	Visible corona test / Corona extinction voltage test/ Corona inception and extinction voltage test/ Corona test	SOP 1 : 2015 / SOP 2-2015
200	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators for OH lines with a nominal voltage above 1000 V, Insulator strings, long rod insulators strings, pin insulators, line post insulators, traction insulators	Voltage distribution test	SOP 5-2015

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201	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Line Traps for AC power systems	Measurement of Radio Influence Voltage	IEC 60353:1989 / IS 8973:1995, RA-2019
202	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Onload tap changers and tap changers	Lightning impulse voltage withstand test	IEC 60214-1:2014 / IS 8468 (Part 1)-2018
203	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Onload tap changers and tap changers	Power-frequency voltage withstand test	IEC 60214-1:2014 / IS 8468 (Part 1)-2018
204	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Porcelain insulators for OH lines with nominal voltage up to and including 1000 V	Dry and Wet Power-frequency voltage withstand test, flashover test and power-frequency puncture withstand test	IS 1445:1977, RA-2019
205	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Porcelain insulators for OH lines with nominal voltage up to and including 1000 V	Visual examinations and verification of dimensions	IS 1445:1977, RA-2019
206	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Porcelain insulators for OH lines with nominal voltage up to and including 1000 V	Visual examinations and verifications of dimensions	IS 1445:1997, RA-2019
207	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Post Insulators	Artificial Pollution test on insulators - by salt fog method	IEC 60507:2013 / IS 8704-2018
208	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Post Insulators	Dry and wet power-frequency flashover voltage	IEC 60168:1994 + A1:1997 + A2:2000 / IS/IEC 60168:2000 / IS 5350 (Part I):1970, RA:2019 / IS 5350 (Part II):1973, RA:2019 / IS 5350 (Part III):1971, RA:2019 / IS/IEC 62155:2003 / IEC 62231-2006
209	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Post Insulators	Dry and wet power-frequency withstand voltage test	IEC 60168:1994 + A1:1997 + A2:2000 / IS/IEC 60168:2000 / IS 5350 (Part I):1970, RA:2019 / IS 5350 (Part II):1973, RA:2019 / IS 5350 (Part III):1971, RA:2019 / IEC 62217:2005 / IS/IEC 62155:2003 / IEC 62231-2006

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210	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Post Insulators	Dry lightning-impulse withstand voltage test – using the withstand voltage procedure and using the 50 % flashover voltage procedure	IEC 60168:1994 + A1:1997 + A2:2000 / IS/IEC 60168:2000 / IS 5350 (Part I):1970, RA:2019 / IS 5350 (Part II):1973, RA:2019 / IS 5350 (Part III):1971, RA:2019 / IS/IEC 62155:2003 / IEC 62231-2006
211	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Post Insulators	Dry or wet switching-impulse withstand voltage tests – using the withstand voltage procedure and using the 50 % flashover voltage procedure	IEC 60168:1994 + A1:1997 + A2:2000 / IS/IEC 60168:2000 / IS 5350 (Part I):1970, RA:2019 / IS 5350 (Part II):1973, RA:2019 / IS 5350 (Part III):1971, RA:2019 / IS/IEC 62155:2003 / IEC 62231-2006
212	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Post Insulators	Radio Interference Voltage test	IEC 60437:1997 / IS 8263-2018
213	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Post Insulators	Reference dry power frequency test and Dry power frequency voltage test	IEC 62217-2012
214	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Post Insulators	Verification of Dimensions	IEC 60168:1994 + A1:1997 + A2:2000 / IS/IEC 60168:2000 / IS 5350 (Part I):1970, RA:2019 / IS 5350 (Part II):1973, RA:2019 / IS 5350 (Part III):1971, RA:2019 / IS/IEC 62155:2003 / IEC 62231-2006
215	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Post Insulators	Visible corona test / Corona inception and extinction voltage test / Corona extinction voltage test / Corona test	SOP 1 :2015 / SOP 2-2015
216	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Power connectors, clamps, fittings and accessories	Corona test	IS 5561:2018 / IEC 61284-1997
217	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Power connectors, clamps, fittings and accessories	Radio interference voltage (RIV) test	IS 5561:2018 / IEC 61284:1997 / IEC 60437-1997
218	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Power connectors, clamps, fittings and accessories	Visible corona test / Corona inception and extinction voltage test/ Corona extinction voltage test / Corona test	SOP 1 :2015 / SOP 2-2015

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219	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Spacers, dampers and other accessories, viz. joints, repair sleeves	Corona test	IEC 61284:1997 / IEC 61854:2020 / IS 10162:1982, RA-2018
220	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Spacers, dampers and other accessories, viz. joints, repair sleeves	Radio interference voltage test (RIV)	IEC 61284:1997 / IEC 61854:2020 / IS 10162:1982, RA: 2018 / IEC 60437-1997
221	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Spacers, dampers and other accessories, viz. joints, repair sleeves	Visible corona test/ Corona inception and extinction voltage test / Corona extinction voltage test/ Corona test	SOP 1 : 2015 / SOP 2-2015
222	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Surge arrester for alternating current system	Contamination/Pollution test on Lightning arrester	Withdrawn Standard IS 3070 (Part-3) 1993, RA-2004
223	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Surge arrester for alternating current system	Contamination/Polution test on Lightning arrester	ANSI/IEEE C62.11-2012
224	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Surge arrester for alternating current system	Power frequency voltage withstand tests of arrester housing (Dry and Wet)	"Withdrawn Standard" IS 3070 (Part-3):1993
225	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Surge arrester for alternating current system	Switching impulse voltage test on arrester housing (Dry & Wet)	"Withdrawn Standard" IS 3070 (Part-3):1993
226	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Surge Arresters: Metal Oxide surge arresters without gap for ac systems	Dry and wet Power-frequency voltage withstand tests on the arrester housing	IEC 60099-4:2014 / IS 15086 (Part 4)-2017
227	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Surge Arresters: Metal Oxide surge arresters without gap for ac systems	Internal Partial discharge test	IEC 60099-4:2014 / IS 15086 (Part 4)-2017
228	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Surge Arresters: Metal Oxide surge arresters without gap for ac systems	Lightning impulse voltage test on the arrester housing (dry)	IEC 60099-4:2014 / IS 15086 (Part 4)-2017
229	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Surge Arresters: Metal Oxide surge arresters without gap for ac systems	Radio Interference Voltage (RIV) test	IEC 60099-4:2014 / IS 15086 (Part 4)-2017

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230	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Surge Arresters: Metal Oxide surge arresters without gap for ac systems	Switching impulse voltage withstand test on the arrester housing(Dry & Wet)	IEC 60099-4:2014 / IS 15086 (Part 4)-2017
231	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Surge Arresters: Metal Oxide surge arresters without gap for ac systems	Visible Corona test / Corona extinction voltage test/ Corona inception and extinction voltage test/Corona test	SOP 1 :2015 / SOP 2 -2015
232	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Self ballasted LED Lamps for General Lightning Services	Centre Beam Intensity	IS 16102 (Part-2): 2017, Amd 1:2020 / IESNA LM 79-08 / IS 16106:2012, RA -2017
233	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Self ballasted LED Lamps for General Lightning Services	Colour Nomenclature, variation	IS 16102 (Part-2): 2017, Amd 1:2020 / IESNA LM 79-08 / IS 16106:2012, RA -2017
234	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Self ballasted LED Lamps for General Lightning Services	Colour Rendering Index	IS 16102 (Part-2): 2017, Amd 1:2020 / IESNA LM 79-08 / IS 16106:2012, RA -2017
235	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Self ballasted LED Lamps for General Lightning Services	Endurance test - Supply voltage Switching cycle test	IS 16102 (Part-2): 2017, Amd 1-2020
236	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Self ballasted LED Lamps for General Lightning Services	Endurance test - Temperature cycle test	IS 16102 (Part-2): 2017, Amd 1-2020
237	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Self ballasted LED Lamps for General Lightning Services	Lumen Maintenance	IS 16102 (Part-2): 2017, Amd 1-2020
238	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Self ballasted LED Lamps for General Lightning Services	Luminous Efficacy	IESNA LM 79-08 / IS 16106:2012, RA-2017
239	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Self ballasted LED Lamps for General Lightning Services	Luminous Flux	IS 16102 (Part-2): 2017, Amd 1:2020 / IESNA LM 79-08 / IS 16106:2012, RA -2017
240	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Self ballasted LED Lamps for General Lightning Services	Luminous Intensity Distribution	IESNA LM 79-08 / IS 16106:2012, RA-2017
241	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Self ballasted LED Lamps for General Lightning Services	Test for Colour Characteristics	IESNA LM 79-08 / IS 16106:2012, RA-2017
242	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Self ballasted LED Lamps for General Lightning Services	Test for Total Luminous flux measurement	IESNA LM 79-08 / IS 16106:2012, RA-2017