

SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITUTE, PROF SIR C V RAMAN ROAD, BENGALURU, KARNATAKA, INDIA			
Accreditation Standard	ISO/IEC 17025:2017			
Certificate Number	TC-5452	Page No	1 of 333	
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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
	1 1	Permanent Testing	1812	
1	CHEMICAL- HAZARDOUS & RESTRICTED CHEMICALS	Paint	Lead content in Paint	ASTM E 1613-12 (Withdrawn) / ASTM E3203-21 / ASTM E 1645-2021
2	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Oxidation Stability Total Acidity Total Sludge	ASTM D 2440-13-2021
3	CHEMICAL- LUBRICANTS	Transformer oil	Ageing Characteristics Total sludge	IS 335: 2018, ASTM D 1934-2020
4	CHEMICAL- LUBRICANTS	Inhibited & Uninhibited Mineral Insulating oil, Turbine oil and Hydraulic Oil Gear Oil	Density	IS1866:2017 IEC60422:2013 / IS1448(Part 16):2014/ IS335:2018 IEC60296: 2020 / ISO 3675:1998 / ASTM D 1298:12b-2017e1
5	CHEMICAL- LUBRICANTS	Inhibited & Uninhibited Mineral Insulating oil, Turbine oil and Hydraulic Oil Gear Oil	Kinematic viscosity	ASTM D445:2023 / ISO3104:2023 / IS335:2018 IEC 60296: 2020 / IS1866:2017 IEC 60422:2013 IS 1448 (part-25) RA-2018
6	CHEMICAL- LUBRICANTS	Inhibited & Uninhibited Mineral Insulating oil, Turbine oil and Hydraulic Oil Gear Oil	Neutralisation value/Acidity	IEC 62021-2:2007 / ASTMD-974:2022 / IS335:2018 IEC 60296: 2020 / IS 1866:2017 IEC60422:2013 / IS1448 (Part 2):2007 (RA 2018) / ISO 6619: 1988 / IEC 62021-1:2003/ ASTM D 664:2018e2
7	CHEMICAL- LUBRICANTS	Inhibited & Uninhibited Mineral Insulating oil, Turbine oil, Hydraulic Oil and Gear Oil	Pour Point	IS335:2018 IEC60296: 2020 IS1866:2017 IEC60422: 2013 / IS 1448 (Part 10-Sec.2):2021, ISO 3016:2019, ASTM D97-17b(2022)
8	CHEMICAL- LUBRICANTS	Inhibited & Uninhibited Mineral Insulating oil, Turbine oil, Hydraulic Oil and Gear Oil	Appearance	IS335:2018 IEC60296: 2020 / IS1866 :2017 IEC60422:2013 / ASTM D 4176
9	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Presence of Oxidation Inhibitor Phenolic Type Oxidation inhibitor	ASTM D 2668-07
10	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Gassing Tendency	IS335:2018 IEC60296: 2020 / IEC 60628:1985 Method A / IS12475(Part1):1988 RA-2018 / D2300-08
11	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	2 Furfural and related compounds	IS335:2018 IEC60296: 2020 / IS1866:2017 IEC60422:2013 / IS:15668:2006 (RA2021)/ ASTM D5837:2015, IEC 61198-1993



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12	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Ageing characteristics Total Sludge	IS : 12177-1987 Method A: RA-2018 / ASTM D1934
13	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Ageing characteristics Total Acidity	IS 12177-1987 Method A: RA-2018 ASTM D1934
14	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Carbon Type (PNA) Analysis - CA	IS 13155:1991 (RA2021) IEC60590:1977 / ASTM D2140-08:2017
15	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Carbon Type (PNA) Analysis - CN	IS 13155:1991 (RA2021) IEC60590:1977/ ASTM D2140-08-2017
16	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Carbon Type (PNA) Analysis - CP	IS 13155:1991 (RA2021) IEC60590:1977 / ASTM D2140-08-2017
17	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Corrosive Sulphur	IS335:2018 IEC60296: 2020/DIN 51353:1985/ ASTM D 1275: 2015/ IEC 62535-2008
18	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Dissolved Gas Analysis / Gas Content TPCG TGC	IS 9434:2019, IEC 60567:2011, IS10593:2023, IEC 60599-2022
19	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Dissolved Gas Analysis / Gas Content Ethane	IS 9434: 2019 IEC 60567:2011/ IS 10593:2023/ IEC 60599-2022
20	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Dissolved Gas Analysis / Gas Content Hydrogen	IS 9434: 2019 IEC 60567:2011 / IS 10593:2023 / IEC 60599-2022
21	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Dissolved Gas Analysis / Gas Content Nitrogen	IS 9434: 2019 IEC 60567:2011 / IS 10593:2023 / IEC 60599-2022
22	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Dissolved Gas Analysis / Gas Content Acetylene	IS 9434: 2019 IEC 60567:2011 / IS 10593:2023 / IEC 60599
23	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Dissolved Gas Analysis / Gas Content Carbon Dioxide	IS 9434: 2019 IEC 60567:2011 / IS 10593:2023 / IEC 60599-2022
24	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Dissolved Gas Analysis / Gas Content Carbon Monoxide	IS 9434: 2019 IEC 60567:2011 / IS 10593:2023 / IEC 60599:2022
25	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Dissolved Gas Analysis / Gas Content Ethylene	IS 9434: 2019 IEC 60567:2011 / IS 10593:2023 / IEC 60599:2022
26	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Dissolved Gas Analysis / Gas Content Methane	IS 9434: 2019 IEC 60567:2011 / IS 10593:2023 / IEC 60599-2022
27	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Dissolved Gas Analysis / Gas Content Oxygen	IS 9434: 2019 IEC 60567:2011 / IS 10593:2023 / IEC 60599-2022



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28	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Flash Point	IS335:2018 IEC60296: 2020 / IS1866 :2017 IEC60422:2013 / IS : 1448: Part 21 :2019 / ISO 2719: 2016 (AMD 2021) / ASTM D 93-2020
29	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Interfacial Tension	IS335:2018 IEC60296: 2020 IS1866 :2017 IEC60422:2013 / IS :6104:1971 (RA 2021) / ASTM D 971-2020
30	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Oxidation Stability Total Acidity Total Sludge DDF@90 deg. C	IS335:2018 IEC60296: 2020/IS 12422 2023
31	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Oxidation Stability Total Acidity Total Sludge DDF@90deg.C	IS335:2018 IEC60296: 2020/IEC 61125-2018
32	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Oxidation Stability Total Sludge	IS335:2018 IEC60296:2020 / IS1866:2017 IEC60422:2013 / ASTM D 2440-13-2021
33	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Oxidation Stability: Total Acidity	IS 335-2018
34	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	PCA Content	IS335:2018 IEC60296: 2020/IP 346: 1992 RA-2004
35	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	PCB Content	IS335:2018 IEC60296: 2020 / IEC 61619:1997 / IS16082:2013 (RA2018) / ASTMD 4059-00
36	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Potentially corrosive sulphur	IS335:2018 IEC60296: 2020 IS1866:2017 IEC60422: 2013 / IS16310:2017 / IEC 62535-2008
37	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Presence of Oxidation Inhibitor (DBPC only)	IS335:2018 IEC60296: 2020 IS1866:2017 IEC60422: 2013 / IS 13631:2017 / IEC 60666-2010 / ASTM D2668-07
38	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Sediment & Sludge	IS 1866:2017 IEC 60422:2013 / IEC 61125 -2018
39	CHEMICAL- LUBRICANTS	Inhibited and Uninhibited mineral insulating oil	Water Content by KF Coulometric method	IS335:2018 IEC60296: 2020 IS1866 :2017 IEC60422:2013 / IS 13567:2018 / IEC 60814:1997 / ASTM D 6304-2020 / ASTM D1533
40	CHEMICAL- LUBRICANTS	Inhibited uninhibited mineral insulating oil	Compatibility of Construction Material with Electrical Insulating Oil of Petroleum Origin	ASTM D3455-11



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41	CHEMICAL- LUBRICANTS	Insulating oil and lubricating oil	Particle sizing and counting	IS335:2018 IEC60296: 2020 / ISO 4406:2017 / ISO 4402:1991 (withdrawn) NAS1638 IS 13236:13 IEC 60970:2007
42	CHEMICAL- LUBRICANTS	Transformer oil	DBDS	IS335:2018 / IS 16497 (Part 1):2017 / IEC60296: 2013 IS1866:2017 IEC60422:2013 / IEC 62697-1-2012
43	CHEMICAL- LUBRICANTS	Transformer oil	Metal Passivator Additives	IS 13631: 2017 / 1866:2017 IEC60422:2013 IS 335:2018 / IEC60296: 2020, Annex. B, IEC 60666-2010
44	CHEMICAL- LUBRICANTS	Turbine Oil Hydraulic Oil Gear Oil	Trace Sediment	Withdrawn ASTM D 2273:08-2016
45	CHEMICAL- LUBRICANTS	Turbine Oil Hydraulic Oil Gear Oil	Copper strip corrosion	ASTM D 130:19 IS 1448 : Part 15 : 2004(RA2021) / ISO 21600-1998
46	CHEMICAL- LUBRICANTS	Turbine Oil Hydraulic Oil Gear Oil	Rust prevention characteristics	IS 1448: Part 96-2019 / ISO 7120:1987 / ASTM D 665-2019
47	CHEMICAL- LUBRICANTS	Turbine Oil Hydraulic Oil Gear Oil	Viscosity Index	IS1448 (Part 56):2013 (RA2018) / ASTM D 2270:10 (2016) / ISO 2909:2002
48	CHEMICAL- LUBRICANTS	Turbine Oil Hydraulic Oil Gear Oil	Demulsibility / Emulsion Characteristics	ASTM D 2711-2017
49	CHEMICAL- LUBRICANTS	Turbine Oil Hydraulic Oil Gear Oil	Foaming Characteristics	IS1448: Part 67 :2020 ASTM D 892-2018
50	CHEMICAL- LUBRICANTS	Turbine Oil Hydraulic Oil Gear Oil	Water Separability	IS 1448: Part 91 :2019 / ASTM D 1401:2021
51	CHEMICAL- LUBRICANTS	Turbine Oil Hydraulic Oil Gear Oil, Insulating oil	Colour	ASTM D 1500:12 (2017) / ISO 2049-1996
52	CHEMICAL- LUBRICANTS	Turbine Oil Hydraulic Oil Gear Oil	Flash Point	IS 1448 : Part 69: 2019 / ISO 2592 : 2017 / ASTM D 92-2018
53	CHEMICAL- LUBRICANTS	Turbine Oil Hydraulic Oil Gear Oil	Flash Point	IS 1448 : Part 69: 2019 / ISO 2592 : 2017 / ASTM D 92
54	CHEMICAL- SOLID FUELS	Coal	Fixed Carbon by difference	ASTM D 7582-2015
55	CHEMICAL- SOLID FUELS	Coal	Ash Content	ASTM D 7582
56	CHEMICAL- SOLID FUELS	Coal	Ash Content	IS1350 Part 1
57	CHEMICAL- SOLID FUELS	Coal	Carbon	ASTM D 5373
58	CHEMICAL- SOLID FUELS	Coal	Gross Calorific Value	IS 1350 (Part 2) : 2022 ISO 1928 : 2020 / ASTM D 5865 D 5865M-2019
59	CHEMICAL- SOLID FUELS	Coal	Hydrogen	ASTM D 5373



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60	CHEMICAL- SOLID FUELS	Coal	Moisture (60? RH and 40*C)	IS 1350: Part-1: Cl.6.7.1 and Cl 6.2.3
61	CHEMICAL- SOLID FUELS	Coal	Moisture Content	ASTM D 7582
62	CHEMICAL- SOLID FUELS	Coal	Nitrogen	ASTM D 5373
63	CHEMICAL- SOLID FUELS	Coal	Sulphur	ASTM D 4239
64	CHEMICAL- SOLID FUELS	Coal	Volatile Matter	ASTM D 7582
65	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dc, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases, HFFR cables for working voltages upto and including 1100 Volts	Persulphate test	Table 3, SI.No.2, IS 17293-2020 / Table 9, (i)(c) , IS 17505(Part- I)-2021 / Table 2 Cl. II c(iii), Cl.III a(iii) of IS 17048:2018, Am1, 2021 / IS 10810 Part 4 : 1984, Cl. 22.1 ,a5, IS 9968 Part- 2, Cl. 21.1, IS 9968 Part -1
66	ELECTRICAL- CABLES & WIRES	Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases Method for Assessment of fire Integrity of large diameter power cables for use as components for smoke and heat control systems and certain other active fire safety systems	Circuit Integrity test under fire with water and mechanical shock	Table 9, Sl.No. (viii), IS 17505(Part-I)-2021 / BS 8491 : 2008
67	ELECTRICAL- CABLES & WIRES	Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases , HFFR cables for working voltages upto and including 1100 Volts	Annealing test	Table 9, (i),IS 17505(Part I)-2021 / Cl.5,Table 2 of IS 17048 : 2018, Am1-2021, IS 10810 Part 1
68	ELECTRICAL- CABLES & WIRES	AC Cable terminations 2.5 kV to 765 kV	Power Frequency Withstand Test/ Dielectric strength	Cl.8, IEEE Std-48 : 2009
69	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dc, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases , HFFR cables for working voltages upto and including 1100 Volts	Flammability test, Test for vertical flame propagation on complete cable	Table 3, 14, IS-17293-2020 / Table 9,(vii), IS 17505-2021 / Cl. 5, Table 2 of IS 17048 : 2018, Am1-2021
70	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Capacitance Measurement	Cl.24, IS 692, 1994, RA : 2020
71	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Tan Delta Measurement	Cl.19, IS 7098 (part 2) , 2011, RA : 2021
72	ELECTRICAL- CABLES & WIRES	AC Cable terminations 2.5 kV to 765 kV	Load cycle test	Cl.8, IEEE Std-48 : 2009
73	ELECTRICAL- CABLES & WIRES	AC Cable terminations 2.5 kV to 765 kV	Load cycle test	Cl.8, IEEE Std-48 : 2009
74	ELECTRICAL- CABLES & WIRES	AC Cable terminations 2.5 kV to 765 kV	Partial discharge Test	Cl.8, IEEE Std-48 : 2009
75	ELECTRICAL- CABLES & WIRES	AC Cable terminations 2.5 kV to 765 kV	Power Frequency Withstand Test/ Dielectric strength	Cl.8, IEEE Std-48 : 2009
76	ELECTRICAL- CABLES & WIRES	Accessories For cables with rated voltage from 6 kV up to 30 kV	Impulse withstand Test	Cl.18, BS EN IEC 60502-4:2021, Cl.18, IEC 60502-4 : 2023



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77	ELECTRICAL- CABLES & WIRES	Accessories For cables with rated voltage from 6 kV up to 30 kV	Electrical Heat cycle Test /Load Cycle Test	Table, 5,6,7, BS EN IEC 60502-4:2021, IEC 60502-4 : 2023
78	ELECTRICAL- CABLES & WIRES	Accessories For cables with rated voltage from 6 kV up to 30 kV	DC withstand Test	Table 5, 6,7, BS EN IEC 60502-4:2021, Cl.18, IEC 60502-4 : 2023
79	ELECTRICAL- CABLES & WIRES	Accessories For cables with rated voltage from 6 kV up to 30 kV	Electrical Heat cycle Test /Load Cycle Test	Table 5, 6,7, Cl.18, BS EN IEC 60502-4:2021, IEC 60502-4 : 2023
80	ELECTRICAL- CABLES & WIRES	Accessories for Extruded power Cables- for working voltages from 3.3kV (UE) to up to and including 33 kV	AC High Voltage Test under the influence of Humidity , under the influence of salt fog	CENELEC HD 629-1 S3 2019 / CENELEC HD 629.1 S2 2006 / IS 13573, Part-2:2011, RA 2021 & Part 3:2011, RA 2016, IEC 60502-4-023, BS EN IEC 60502-4-2023,IEC -61442-
81	ELECTRICAL- CABLES & WIRES	Accessories for Extruded power Cables- for working voltages for 1.1kV up to 3.3 kV, from 3.3kV (UE) to up to and including 33 kV(E)	Conductor Resistance test	IS 13573, Part 1, 2 & 3, 2011, RA : 2016
82	ELECTRICAL- CABLES & WIRES	Accessories for Extruded power Cables- for working voltages for 1.1kV up to 3.3 kV, from 3.3kV (UE) to up to and including 33 kV(E)	Partial discharge Test	IS 13573-part 2, 2011, RA: 2021
83	ELECTRICAL- CABLES & WIRES	Accessories for Extruded power Cables- for working voltages for $1.1kV$ up to $3.3 kV$, from $3.3kV$ (UE) to up to and including $33 kV(E)$	Power frequency withstand test	IS 13573, Part 1, 2 & 3, 2011, RA : 2016
84	ELECTRICAL- CABLES & WIRES	Accessories for Extruded power Cables- for working voltages for 1.1kV up to 3.3 kV, from 3.3kV (UE) to up to and including 33 kV(E)	Power frequency withstand test	IS 13573, Part 1, 2 & 3, 2011, RA: 2016
85	ELECTRICAL- CABLES & WIRES	Accessories for Extruded power Cables- for working voltages from 3.3kV (UE) to up to and including 33 kV(E)	Impulse withstand Test	IS 13573 part 1,2 & 3, 2011 / IS 13705 -93, 2011, RA : 2016
86	ELECTRICAL- CABLES & WIRES	Accessories for Power Cables from 3.6/6 kV up to 20.8/36 kV	Power Frequency Withstand Test/ Dielectric strength	(Table 5,6 &7) Cl.18, BS EN IEC 60502-4:2021, IEC 60502-4 : 2023
87	ELECTRICAL- CABLES & WIRES	Accessories for Power Cables from 3.6/6 kV up to 20.8/36 kV	Power Frequency Withstand Test/ Dielectric strength	(Table 5,6 &7)Cl.18, BS EN IEC 60502-4:2021, IEC 60502-4 : 2023
88	ELECTRICAL- CABLES & WIRES	Accessories for power cables with rated voltages from 3.6/6 kV up to and including 20.8/36 kV	Impulse withstand Test/	CENELEC HD 629.1 S3-2019 / CENELEC HD 629.1 S2 2006 / VDE -0278-442 : 2006
89	ELECTRICAL- CABLES & WIRES	Accessories for power cables with rated voltages from 3.6/6 kV up to and including 20.8/36 kV	DC withstand Test	VDE -0278-442 : 2006
90	ELECTRICAL- CABLES & WIRES	Accessories for power cables with rated voltages from 3.6/6 kV up to and including 20.8/36 kV	Partial discharge Test	DIN EN 61442-2005 / CENELEC HD 629-1 S3-2019 / CENELEC HD 629.1.S2.2006 / VDE -0278-442 : 2005



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91	ELECTRICAL- CABLES & WIRES	Accessories for use on power cables of rated voltage from 3.6/6(7.2) kV up to 20.8/36(42) kV	Partial discharge Test	DIN VDE 0278-629-1 : 2006
92	ELECTRICAL- CABLES & WIRES	acidity by measuring pH and Conductivity	Halogen Acid Test	BS EN 60754-2:2014, Am 1: 2020, IEC 60754-2 :2011, Am 1 :2019
93	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Ageing in air oven	Cl.19, IS 14255, 1995, RA : 2020
94	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Carbon Black content test	Cl.10, IS 14255, 1995, RA : 2020
95	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Hot Set Test	Cl.10, IS 14255, 1995, RA : 2020, IS 10810 Part- 30 1984
96	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Hot Set Test	Cl.10, IS 14255, 1995, RA : 2020, IS 10810 Part- 30 1984
97	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Mechanical test Tensile strength test	Cl.10, IS 14255 , 1995, RA : 2020
98	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Shrinkage test	Cl.10, IS 14255 : 1995, RA :2020
99	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Shrinkage test	Cl.10, IS 14255 : 1995, RA :2020
100	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables - For working voltages up to and including 1100 Volts	Test for Resistance to cracking	Cl.10, IS 14255, 1995, RA : 2020
101	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – for working voltages up to and including 1100 Volts	Conductor Resistance test	Cl.10, IS 14255 : 1995, RA : 2020
102	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – For working voltages up to and including 1100 Volts	Elongation at break	Cl.10, IS 14255 : 1995, RA 2020
103	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – For working voltages up to and including 1100 Volts	Power frequency withstand test	Cl.10, IS 14255 : 1995, RA : 2020
104	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – For working voltages up to and including 1100 Volts	Power frequency withstand test	Cl.10, IS 14255 : 1995, RA : 2020
105	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – For working voltages up to and including 1100 Volts	Volume Resistivity test/ Insulation Resistance Test	Cl.10, IS 14255 : 1995, RA : 2020
106	ELECTRICAL- CABLES & WIRES	Aerial Bunched Cables – For working voltages up to and including 1100V	Thickness and dimension test	Cl.10, IS 14255 : 1995, RA : 2020
107	ELECTRICAL- CABLES & WIRES	All soild insulating materials	Dielectric strength, Breakdown voltage, and proof voltage	ASTM D149-20, IEC 60243-1:2013, IS 2584 : 1963 (REAFFIRMED 2021)
108	ELECTRICAL- CABLES & WIRES	All solid insulating materials	Comparative Tracking Index	IEC 60112:2020, IS 2824 : 2007 (REAFFIRMED 2017)
109	ELECTRICAL- CABLES & WIRES	All solid insulating materials	Dielectric constant/Relative permittivity at 50 Hz	ASTM D150-18, IEC 62631-2-1:2018, IS 4486 : 1967 (REAFFIRMED 2018)



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110	ELECTRICAL- CABLES & WIRES	All solid insulating materials	Dielectric constant/Relative permittivity at 75 KHz to 10 MHz	ASTM D150-18, IEC 62631-2-1:2018, IS 4486 : 1967 (REAFFIRMED 2018)
111	ELECTRICAL- CABLES & WIRES	All solid insulating materials	Dissipation factor/loss factor/tan delta at 75 KHz to 10 MHz	ASTM D150-18, IEC 62631-2-1:2018, IS 4486 : 1967 (REAFFIRMED 2018)
112	ELECTRICAL- CABLES & WIRES	All solid insulating materials	Dissipation factor/Tan delta/Loss Factor at 50 Hz	ASTM D150-18, IEC 62631-2-1:2018, IS 4486 : 1967 (REAFFIRMED 2018)
113	ELECTRICAL- CABLES & WIRES	All solid insulating materials	Volume resistivity	IEC 62631-3-1:2023, ASTM D257-14(2021), ISO 14309:2019, ENA TS 09-13 Issue 2 2013
114	ELECTRICAL- CABLES & WIRES	All solid insulating materials, Covered conductors for overhead lines and the related accessories for rated voltages above 1 kV a.c. and not exceeding 36 kV a.c, High voltage heat-shrinkable material components for use up to and including 36 kV	Tracking and Erosion, Inclined Plane Tracking and Erosion Resistance	ASTM D2303-20e1, IEC-60587-2022, ENA TS 09-13 Issue 2 2013, EN 50397-1:2021
115	ELECTRICAL- CABLES & WIRES	All solid Insulation materials	Dry arc resistance	ASTM D495-22, IS 14672 : 1999 (REAFFIRMED 2019)
116	ELECTRICAL- CABLES & WIRES	Armoured cables with thermoseting insulation for ratd voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Halogen acid test	Cl.16, BS 7835 : 2007
117	ELECTRICAL- CABLES & WIRES	Armoured cables with thermoseting insulation for ratd voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Smoke Emission test	Cl.16, BS 7835 : 2007
118	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Ageing in Air oven	Cl.15, BS 6622 : 2007
119	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Bending Test	Cl.15, BS 6622 : 2007
120	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Breaking Strength test	Cl.15, BS 6622 : 2007
121	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Capacitance Measurement	Cl.15, BS 6622 : 2007
122	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Cold Bend test	Cl.15, BS 6622 : 2007
123	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Cold Elongation test	Cl.15, BS 6622 : 2007
124	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Conditioning Test	Cl.15, BS 6622 : 2007
125	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Conductor Resistance test	Cl.17, BS 6622 : 2007



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126	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Dimension of Armour Material	Cl.15, BS 6622 : 2007
127	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Electrical Heat Cycle test	Cl.15, BS 6622 : 2007
128	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Elongation at break	Cl.15, BS 6622 : 2007
129	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Flame Retardance test (Flammability test)	Cl.15, BS 6622 : 2007
130	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	Cl.15, BS 6622 : 2007
131	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Heat Shock test / Resistance to cracking	Cl.15, BS 6622 : 2007
132	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Hot Set test	Cl.15, BS 6622 : 2007
133	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Hot Set test	Cl.15, BS 6622 : 2007
134	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Impulse withstand Test	Cl.15, BS 6622 : 2007
135	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Insulation Resistance test/ Volume Resistivity Test	Cl.15, BS 6622 : 2007
136	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Loss of mass test	Cl.15, BS 6622 : 2007
137	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Loss of mass test	Cl.15, BS 6622 : 2007
138	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Mechanical test Cold Impact test	Cl.15, BS 6622 : 2007
139	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Mechanical test Tensile strength test	Cl.15, BS 6622 : 2007
140	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Partial discharge Test	Cl.15, BS 6622 : 2007
141	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Power frequency withstand test	Cl.15, BS 6622 : 2007
142	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Power Frequency Withstand Test/ Dielectric strength	Cl.15, BS 6622 : 2007
143	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Pressure test at high temperature	Cl.15, BS 6622 : 2007
144	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Shrinkage test	Cl.15, BS 6622 : 2007
145	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Shrinkage test	Cl.15, BS 6622 : 2007



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146	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Tan Delta Measurement at ambient &elevated temperature	Cl.15, BS 6622-2007
147	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Test for Resistance to cracking	CI.15, BS 6622 : 2007
148	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Thickness and dimension test	Cl.15, BS 6622 : 2007
149	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Water Absorption (Gravimetric)	Cl.15, BS 6622 : 2007
150	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV	Winding test	Cl.15, BS 6622 : 2007
151	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Breaking Strength test	Cl.16, BS 7835 : 2007
152	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Capacitance Measurement	Cl.16, BS 7835 : 2007
153	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Conductor Resistance test	Cl.16, BS 7835 : 2007
154	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Elongation at break	Cl.16, BS 7835 : 2007
155	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Flame Retadancy test (Sweedish Chimney test)	Cl.16, BS 7835 : 2007
156	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Flame Retardancy test on Bunched cables	Cl.16, BS 7835 : 2007
157	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Flame Retardant test (Flammability test)	Cl.16, BS 7835 : 2007
158	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Mechanical Test Tensile strength test	Cl.16, BS 7835 : 2007
159	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Partial discharge Test	Cl.16, BS 7835 : 2007
160	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Tan delta at ambient and elevated temperature	Cl.16, BS 7835 : 2007
161	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Tear Resistance test	Cl.16, BS 7835 : 2007



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162	ELECTRICAL- CABLES & WIRES	Armoured cables with thermosetting Insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Thickness and dimension test	Cl.16, BS 7835 : 2007
163	ELECTRICAL- CABLES & WIRES	Bushing for ac voltages above 1000V	Partial discharge Test	Cl.1.14, IS 2099, Amd 1 & Amd 2 : 1986
164	ELECTRICAL- CABLES & WIRES	Bushings for ac voltages above 1000 Volts	Dielectric Strength Test	IS 2099, Am1, Am2 : 1986
165	ELECTRICAL- CABLES & WIRES	Bushings for ac voltages above 1000 Volts	Dielectric Strength test	IS 2099, Am1, Am2 : 1986
166	ELECTRICAL- CABLES & WIRES	Bushings for ac voltages above 1000 Volts	Power frequency withstand test	IS 2099, Am1, Am2 : 1986
167	ELECTRICAL- CABLES & WIRES	Bushings for ac voltages above 1000 Volts	Power frequency withstand test	IS 2099, Am1, Am2: 1986
168	ELECTRICAL- CABLES & WIRES	Bushings for ac voltages above 1000 Volts	Power frequency withstand test	IS 2099, Amd 1, Amd 2 : 1986
169	ELECTRICAL- CABLES & WIRES	Cable accessories & Joints	Short Time current Test	IS 13573 part 1: 2011 (Reaffirmed 2016) / IS 13573 part 2: 2011 (Reaffirmed 2016) / IS 13573 part 3: 2011 (Reaffirmed 2016) / IEC 60502 -1: 2021 / IEC 60502 -2: 2014 / IEC 61914
170	ELECTRICAL- CABLES & WIRES	Cable cleats	Resistant to Electromechanical forces-Short Time withstand current test	IEC 61914 : 2015
171	ELECTRICAL- CABLES & WIRES	Cable cleats	Short time current test	IEC 61914: 2021
172	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -500 kV $$	Electrical Heat cycle test	Cl.7, IEEE Std-404 : 2012
173	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -500 kV	Electrical Heat cycle test	Cl.7, IEEE Std-404 : 2012
174	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -500 kV $$	Impulse withstand test	Cl.7, IEEE Std 404 : 2012
175	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -500 kV	Partial discharge Test	Cl.7, IEEE Std 404 : 2012
176	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -500 kV	Power frequency withstand test	Cl.7, IEEE Std 404 : 2012
177	ELECTRICAL- CABLES & WIRES	Cable Joints for use with laminated cable rated 2.5 kV -500 kV	Power frequency withstand test	Cl.7, IEEE Std 404 : 2012 / IS 2071 - 2016 /BS EN 60060-2:2011/ IEC 60060-2 : 2010:
178	ELECTRICAL- CABLES & WIRES	Cables and plastics	Flammability by Oxygen Index - Ambient Temperature Test	IS 13360, Part-6, Sec-19, 2019 / ISO 4589-2 : 2017



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179	ELECTRICAL- CABLES & WIRES	Cables and plastics	Oxygen Index test	ASTM 2863 : 2019 / ISO 4589-2 : 2017
180	ELECTRICAL- CABLES & WIRES	Cables and plastics	Oxygen Index test	NCD 1410 : 1999
181	ELECTRICAL- CABLES & WIRES	Cables and plastics	Smoke Density Test	ASTM D 2843 : 2022
182	ELECTRICAL- CABLES & WIRES	Cables and plastics	Temperature Index test	ASTM D 2863 : 2019
183	ELECTRICAL- CABLES & WIRES	Cables and Rail Coach Materials	Toxicity Index - Acrylonitrile	NCD 1409 / NES 713 : 2013
184	ELECTRICAL- CABLES & WIRES	Cables and Rail Coach Materials	Toxicity Index - Ammonia	NCD 1409 / NES 713 : 2013
185	ELECTRICAL- CABLES & WIRES	Cables and Rail Coach Materials	Toxicity Index - Carbon Dioxide	NCD 1409 / NES 713 : 2013
186	ELECTRICAL- CABLES & WIRES	Cables and Rail Coach Materials	Toxicity Index - Formaldehyde	NCD 1409 / NES 713 : 2013
187	ELECTRICAL- CABLES & WIRES	Cables and Rail Coach Materials	Toxicity Index - Hydrogen Chloride, Hydrogen Bromide	NCD 1409 / NES 713 : 2013
188	ELECTRICAL- CABLES & WIRES	Cables and Rail Coach Materials	Toxicity Index - Hydrogen Cyanide	NCD 1409 / NES 713 : 2013
189	ELECTRICAL- CABLES & WIRES	Cables and Rail Coach Materials	Toxicity Index - Hydrogen Sulphide	NCD 1409 / NES 713 : 2013
190	ELECTRICAL- CABLES & WIRES	Cables and Rail Coach Materials	Toxicity Index - Nitrous Fumes	NCD 1409 / NES 713 : 2013
191	ELECTRICAL- CABLES & WIRES	Cables and Rail Coach Materials	Toxicity Index - Phenol	NCD 1409 / NES 713 : 2013
192	ELECTRICAL- CABLES & WIRES	Cables and Rail Coach Materials	Toxicity Index - Phosgene	NCD 1409 / NES 713 : 2013
193	ELECTRICAL- CABLES & WIRES	Cables and Rail Coach Materials	Toxicity Index - Sulphur Dioxide	NCD 1409 / NES 713 : 2013
194	ELECTRICAL- CABLES & WIRES	Cables and Rail Coach Materials	Toxicity Index Test-Hydrogen Fluoride	NCD 1409 / NES 713 : 2013
195	ELECTRICAL- CABLES & WIRES	Cables and Rail Coach Materials	Toxicity Index-Carbon Monoxide	NCD 1409 / NES 713 : 2013
196	ELECTRICAL- CABLES & WIRES	Cables and Textiles	Oxygen Index Test	IS 13501 :1992, RA 2018
197	ELECTRICAL- CABLES & WIRES	Capacitors for high-voltage alternating current circuit- breakers	Measurement of the tangent of Loss Angle (Tan Delta)	IEC 62146-1/2016, IEC 62146-2 /2023
198	ELECTRICAL- CABLES & WIRES	Compression & mechanical connector for power cables	Heat Cycle test	IEC 61238-1-1:2018 / IEC 61238-1-2:2018 / IEC 61238-1-3: 2018



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199	ELECTRICAL- CABLES & WIRES	Compression & mechanical connector for power cables	Short time current test	IEC 61238-1-1:2018, IEC 61238-1-2:2018, IEC 61238-1-3: 2018, IED 629.1 S3:2019
200	ELECTRICAL- CABLES & WIRES	Conductors for insulated cables & Flexible cords	Conductor Resistance test	BS EN 60228-2005 / IEC 60228 : 2004
201	ELECTRICAL- CABLES & WIRES	Conductors for insulated cables & Flexible cords	Conductor resistance test	IS 8130: 2013, RA: 2018
202	ELECTRICAL- CABLES & WIRES	Conductors for insulated cables & Flexible cords	Resistivity of Armour	BSEN 60228-2005 / IEC 60228 : 2004
203	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Ageing in air oven	Cl.6, EN 50397-1: 2020
204	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Breaking Strength test (Elongation at break test)	Cl.6, EN 50397-1: 2020
205	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Carbon Black content test	Cl.6, EN 50397-1: 2020
206	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Conductor Resistance test	EN 50397-1 : 2020
207	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Durability of Marking test, Legibility test	BS EN 50397-1:2020
208	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Electrical Heat cycle test	EN 50397-1 : 2020
209	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Heat Shock test	EN 50397-1 : 2020
210	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Hot Deformation test	EN 50397-1 : 2020
211	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Hot Set Test	EN 50397-1 : 2020
212	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Hot Set Test	EN 50397-1 : 2020
213	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Mechanical test Tensile strength test	EN 50397-1 : 2020
214	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Power frequency withstand test, Leakage Current test	EN 50397-1 : 2020
215	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Power frequency withstand test, Leakage Current test	EN 50397-1 : 2020
216	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Shrinkage test	Table 2 , EN 50397-1 : 2020
217	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Shrinkage test	Table 2 , EN 50397-1 : 2020
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218	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Thickness and Dimensions	BS EN 50397-1:2020
219	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Water Absorption test (Gravimetric)	BS EN 50397-1:2020
220	ELECTRICAL- CABLES & WIRES	Covered conductors for overhead lies of rated voltages above 1 KV ac and not exceeding 36 kV ac	Water penetration test	Table 2 , EN 50397-1 : 2020
221	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 11 kV	Flame Retardancy test (Flammability test)	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
222	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Ageing in Air Bomb	Cl.22, IS 9968, Part 2, 2002, RA : 2017
223	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Ageing in air oven	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
224	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Capacitance Measurement	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
225	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Conductor Resistance Test/ Armour resistivity Test	Cl.22, IS 9968 part 2 : 2002, RA : 2017
226	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Dimension of Armour Material	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
227	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Electrical Heat cycle test	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
228	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Galvanising test	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
229	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Hot Set test	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
230	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Hot Set test	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
231	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	IR Constant test/Volume Resistivity Test	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
232	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Mineral Oil Immersion test	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
233	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Partial discharge Test	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
234	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Power Frequency withstand test	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
235	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Power Frequency withstand test	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
236	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Pressure test at high temperature / Hot Deformation test	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
237	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Shrinkage test	Cl.22, IS 9968, Part 2, 2002, RA : 2017



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238	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Tan Delta Measurement at ambient &elevated temperature	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
239	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Tear Resistance test	Cl.22, IS 9968, Part 2, 2002, RA : 2017
240	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Test for Resistance to cracking	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
241	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Thermal Stability test	Cl.22, IS 9968, Part 2, 2002, RA : 2017
242	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Thermal Stability test	Cl.22, IS 9968, Part 2, 2002, RA : 2017
243	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Thickness and dimension test	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
244	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Uniformity of Zinc Coating ,Mass of Zinc Coating	Cl.18, IS 9968, Part-2, 2002, RA : 2017
245	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Uniformity of Zinc Coating ,Mass of Zinc Coating	Cl.18, IS 9968, Part-2, 2002, RA : 2017
246	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Volume Resistivity test	Cl.22, IS 9968, Part-2 : 2002, RA : 2017
247	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages from 3.3 kV up to and including 33 kV	Water Absorption Test (Electrical)	Cl.22, IS 9968, Part-2 : 2002, RA : 2017, IS 10810 Part 28
248	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Ageing in Air Bomb	Cl.21, IS 9968, Part-1, 1988, RA: 2020
249	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Ageing in Air oven	Cl.21, IS 9968, Part-1, 1988, RA: 2020
250	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Armour Resistivity test	Cl.21, IS 9968, Part-1, 1988, RA: 2020
251	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Capacitance Measurement	Cl.21, IS 9968, Part-1, 1988, RA: 2020
252	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Conductor Resistance test	Cl.21, IS 9968, Part-1, 1988, RA: 2020
253	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Hot Set test	Cl.21, IS 9968, Part-1, 1988, RA: 2020
254	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Hot Set test	Cl.21, IS 9968, Part-1, 1988, RA: 2020
255	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Mineral Oil Immersion test	Cl.21, IS 9968, Part-1, 1988, RA: 2020
256	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Shrinkage test	IS 9968, Part-1, Am 1, Am 2, 1988, RA 2020
257	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 V	Shrinkage test	IS 9968, Part-1, Am 1, Am 2, 1988, RA 2020



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258	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Bending test	Cl.18, IS 9968 pt.2 , 1988, RA 2020
259	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Dimension of Armour Material	IS 9968 pt 1, 1988, RA 2020
260	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	Cl.21, IS 9986 pt 1, 1988, RA 2020
261	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	IR Constant test/Volume Resistivity Test	Cl.21, IS 9968 Part 1 -1988, RA : 2020
262	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 Volts	Power frequency withstand test	Cl.21, IS 9968, Part-1 - 1988, RA : 2020
263	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 Volts	Power frequency withstand test	Cl.21, IS 9968, Part-1 - 1988, RA : 2020
264	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Thickness and dimension test	Cl.21, IS 9968 Part 1 - 1988, RA : 2020
265	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Water Absorption Test (Electrical)	Cl.22, IS 9968 part 2, 2002, RA : 2017
266	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Water immersion (Absence of Fault in the insulation)	Cl.21, IS 9968, Part-1, 1988, RA : 2020
267	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Water Immersion test (Absence of faults in the insulation)	Cl.21, IS 9968, Part-1, 1988, RA : 2020
268	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Winding test	Cl.21, IS 9968 part 1, 1988, RA : 2020
269	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Winding test	Cl.22, IS 9968 part.2 , 2002, RA : 2017
270	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages up to and including 1100 Volts	Wrapping test	Cl.21, IS 9968, Part-1, 1988, RA : 2020
271	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Cables for working voltages Up to and including 1100 Volts	Wrapping test	Cl.21, IS 9968, Part-2, 2002, RA : 2017
272	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Thickness and dimension test	Cl.25, IS 14494 : 2019
273	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Ageing in Air Bomb	Cl.25, IS 14494 : 2019
274	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Ageing in air oven	Cl.25, IS 14494 : 2019
275	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Armour Resistivity test	Cl.25, IS 14494 : 2019
276	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Bending test	Cl.25, IS 14494 : 2019
277	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Capacitance Measurement	Cl.25, IS 14494 : 2019



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278	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Conductor Resistance test	Cl.25, IS 14494 : 2019
279	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Dimension of Armour Material	Cl.25, IS 14494 : 2019
280	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Electrical Heating Cycle test	Cl.25, IS 14494 : 2019
281	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Electrical Tests on Semiconducting Screening	IS 14494 : 2019
282	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Flame Retardant test (Flammability test)	Cl.25, IS 14494 : 2019
283	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	Cl.25, IS 14494 : 2019
284	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Hot Set test	Cl.25, IS 14494 : 2019
285	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Insulation Resistance test	Cl.25, IS 14494 : 2019
286	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Mineral Oil Immersion test	Cl.25, IS 14494 : 2019
287	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Partial discharge Test	Cl.25, IS 14494 : 2019
288	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Power frequency withstand test	Cl.25, IS 14494 : 2019
289	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Power frequency withstand test	Cl.25, IS 14494 : 2019
290	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Tan Delta Measurement at ambient & elevated temperature	Cl.25, IS 14494 : 2019
291	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Torsion test	Cl.25, IS 14494 : 2019
292	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for use in Mines	Water Absorption Test (Electrical)	Cl.25, IS 14494 : 2019
293	ELECTRICAL- CABLES & WIRES	Elastomer insulated Flexible cables for use in mines Elastomer Insulated Flexible Cables for working voltages upto including 1100 Volts	Mechanical test Tensile strength test	Cl.25, IS 14494 : 2019
294	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for working voltages from 3.3 kV upto including 1100 Volts	Mechanical test Tensile Strength test	Cl.21, IS 9968, Part-1, 1988, RA : 2020
295	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for working voltages from 3.3 kV upto including 1100 Volts	Mechanical test Tensile strength test	Cl.22, IS 9968, Part-2, 2002, RA : 2017
296	ELECTRICAL- CABLES & WIRES	Elastomer Insulated Flexible Cables for working voltages from 3.3 kVupto including 1100 Volts	Tear Resistance test	Cl.22, IS 9968, Part-2, 2002, RA : 2017



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297	ELECTRICAL- CABLES & WIRES	Elastomer insulated Flexible cables foruse in mines Elastomer Insulated Flexible Cables for working voltages upto including 1100 Volts	Tear Resistance test	Cl.26, IS 14494 : 2019
298	ELECTRICAL- CABLES & WIRES	Elastomer Insulation & Sheath of electric cables	Aging in air bomb/Oxygen bomb	IS 6380, 1984, Am1-2002, RA : 2021
299	ELECTRICAL- CABLES & WIRES	Elastomer Insulation & Sheath of electric cables	Tear Resistance test	IS 6380, 1984, Am1-2002, RA : 2021
300	ELECTRICAL- CABLES & WIRES	Elastomer Insulation & Sheath of electric Cables	Water Absorption Test (Electrical)	IS 6380, 1984, RA:2016
301	ELECTRICAL- CABLES & WIRES	elastomeric Insulation and sheath, paper insulation of electric cables	Mechanical test Tensile Strength test	IS 10810 part 7, 1984, RA : 2016
302	ELECTRICAL- CABLES & WIRES	Elastomeric Insulation and sheath/ paper insulation of power cables	Breaking Strength test (Elongation at break test)	IS 10810 part 7, 1984, RA : 2016
303	ELECTRICAL- CABLES & WIRES	Electric & Optical fibre Cables	Flame Retardant test (Flammability test)	BS EN 60332-1-1:2004,Am1-2015, IEC 60332-2-1-04, Am1:2015/BS EN 60332-1-2:2004, A12-2020, IEC 60332-1-2-04, Amd 1 -2015/ BS EN 60332-1-3:2004, Am2-2015, IEC 60332-1-3:2004, Amd 1 -2015: 2015
304	ELECTRICAL- CABLES & WIRES	Electric & Optical fibre Cables	Flame Retardant test (Flammability test)	BS EN 60332-1-1:2004,Am1-2015, IEC 60332-2-1-04, Am1:2015 /BS EN 60332-2-2:2004, IEC 60332-2-2 : 2004
305	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for ratd voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke and corrosive gases	Flame Retardant test (Flammability test)	Cl.16, BS 7835 : 2007
306	ELECTRICAL- CABLES & WIRES	Electric Cables	Smoke Density Test	IEC 61034 part 1 :2005, Am1-2013, Am2-2019, BS EN 61034-1:2005, Am1-2014, Am2-2020, BS EN 61034-2:2005, Am1-2013, Am2-2020 & IEC 61034 part 2 : 2005, Am1-2013, Am2-2019 : 2019
307	ELECTRICAL- CABLES & WIRES	Electric cables	Fire resistance/ Circuit Integrity	IEC 60331 part.11:1999, Am1:2009 ,Part-21:1999, Part-23:1999 & Part-25 : 1999



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308	ELECTRICAL- CABLES & WIRES	Electric Cables	Flame retardant Test for Bunched Cables	IEC 60332-3-10 : 2018, BS EN IEC 60332-3-10:2018 / IEC 60332-3-21 :2018, BS EN IEC 60332-3-21:2018 / IEC 60332-3-22:2018, BS EN IEC 60332-3-22:2018 / IEC 60332-3-23:2018 / IEC 60332-3-23:2018 / IEC 60332-3-24:2018 / IEC 60332-3-25:2018 / IEE 60332-3-25:2018 / IEEE 383 : 2003
309	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Cold Elongation test	Cl.12, BS 6004, Am1 : 2012
310	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	DC withstand Test/Long term Resistance to DC	Cl.12, BS 6004, Am1 : 2012
311	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Heat Shock test	Cl.12, BS 6004, Am1 : 2012
312	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Hot Set test	Cl.12, BS 6004, Am1 : 2012
313	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Hot Set test	Cl.12, BS 6004, Am1 : 2012
314	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Loss of mass test	Cl.12, BS 6004, Am1 : 2012
315	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Pressure test at high temperature	Cl.12, BS 6004, Am1 : 2012
316	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Shrinkage test	Cl.12, BS 6004, Am1 : 2012
317	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Test for Resistance to cracking	Cl.12, BS 6004, Am1 : 2012
318	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Thermal Stability Test for PVC material	Cl.8, BS 6004, Am1 : 2012
319	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Thickness and dimension test	Cl.7, BS 6004, Am1 : 2012



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320	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Ageing in air oven	Cl.8, BS 6004, Am1 : 2012
321	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Breaking Strength test (Elongation at break)	Cl.8, BS 6004, Am1 : 2012
322	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Cold Bend test	Cl.8, BS 6004, Am1 : 2012
323	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Conductor Resistance test	Cl.8, BS 6004, Am1 : 2012
324	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Flame Retardance test (Flammability test)	Cl.8, BS 6004, Am1 : 2012
325	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Insulation Resistance test	Cl.12, BS 6004, Am1: 2012
326	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Mechanical test Cold Impact test	Cl.12, BS 6004, Am1 : 2012
327	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Mechanical test Tensile strength test	Cl.8, BS 6004, Am1 : 2012
328	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Power Frequency withstand test	Cl.8, BS 6004, Am1 : 2012
329	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Power frequency withstand test	Cl.8, BS 6004, Am1 : 2012
330	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Water Immersion test (Absence of faults in the insulation)	Cl.8, BS 6004, Am 1 : 2012
331	ELECTRICAL- CABLES & WIRES	Electric Cables – PVC insulated and PVC Sheathed cables for voltages up to and including 300/500 V, for electric Power and lighting	Water immersion test (Absence of faults in the insulation)	Cl.8, BS 6004, Am1 : 2012
332	ELECTRICAL- CABLES & WIRES	Electric cables – Thermosetting insulated a nd thermoplastic sheathed cables for voltages upto and including 450/750 V,for electric power and lighting and having low emission of smoke and corrosive gases when affected by fire	Halogen Acid test	BS EN 50525-3-41:2011 / BS EN 50525-3-31:2011 / Cl.13, BS 7211 : 2012, Am1-2020
333	ELECTRICAL- CABLES & WIRES	Electric cables – Thermosetting insulated and thermoplastic sheathed cables for voltages upto and including 450/750 V, for electric power and lighting and having low emission of smoke and corrosive gases when affected by fire	Circuit Integrity test	Cl.13, BS 7211 : 2012, Am1-2020



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334	ELECTRICAL- CABLES & WIRES	Electric cables – Thermosetting insulated and thermoplastic sheathed cables for voltages upto and including 450/750 V, for electric power and lighting and having low emission of smoke and corrosive gases when affected by fire	Flame Retardance test (Flammability test)	Cl.13, BS 7211 : 2012, Am1-2020
335	ELECTRICAL- CABLES & WIRES	Electric cables – Thermosetting insulated and thermoplastic sheathed cables for voltages upto and including 450/750 V,for electric power and lighting and having low emission of smoke and corrosive gases when affected by fire	Smoke Emission Test	BS EN 50525-3-41:2011 / BS EN 50525-3-31:2011 / Cl.13, BS 7211 : 2012, Am1-2020
336	ELECTRICAL- CABLES & WIRES	Electric cables – Thermosetting insulated and thermoplastic sheathed cables for voltages upto and including 450/750 V, for electric power and lighting and having low emission of smoke and corrosive gases when affected by fire	Flame Retardance test on Bunch of Cables	Cl.12, BS 7211 : 2012, Am1-2020
337	ELECTRICAL- CABLES & WIRES	Electric Cables – Thermosetting insulated, armoured cables of rated voltages 600/1000 V & 1900/3300 V for fixed installation	Cold Bend test	Cl.14, BS 5467 : 2016
338	ELECTRICAL- CABLES & WIRES	Electric Cables – Thermosetting insulated, armoured cables of rated voltages 600/1000 V & 1900/3300 V for fixed installation	Cold Impact test	CI.14, BS 5467 : 2016
339	ELECTRICAL- CABLES & WIRES	Electric Cables – Thermosetting insulated, armoured cables of rated voltages 600/1000 V & 1900/3300 V for fixed installation	Cold Impact test	Cl.14, BS 5467 : 2016
340	ELECTRICAL- CABLES & WIRES	Electric Cables – Thermosetting insulated, armoured cables of rated voltages 600/1000 V & 1900/3300 V for fixed installation	Insulation Resistance test	Cl.14, BS 5467 : 2016
341	ELECTRICAL- CABLES & WIRES	Electric cables – thermosetting insulated, armoured, fire- resistant cables of rated voltage 600/1000 v, having low emission of smoke and corrosive gases	Halogen Acid Test	Cl.14, BS 7846 : 2015
342	ELECTRICAL- CABLES & WIRES	Electric cables – thermosetting insulated, armoured, fire- resistant cables of rated voltage 600/1000 v, having low emission of smoke and corrosive gases	Smoke Emission Test	Cl.14, BS 7846 : 2015
343	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Dimension of Armour Material	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-51:2011 / Cl.14, BS 6724 : 2016
344	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Smoke Emission Test	Cl.14, BS 6724 : 2016



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345	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Thickness and dimension test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.14, BS 6724 : 2016
346	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Ageing in Air Oven	Cl.14, BS 6724 : 2016
347	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Cold Bend test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.14, BS 6724 : 2016
348	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Cold Elongation test	Cl.14, BS 6724 : 2016
349	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Fire Retardant test (Flammability Test)	Cl.14, BS 6724 : 2016
350	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Flame Retardant test on Bunched Cables	Cl.14, BS 6724 : 2016
351	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Hot set test	CI.14, BS 6724 : 2016
352	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Insulation Resistance test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.14, BS 6724 : 2016



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353	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Mechanical test Cold Impact test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.14, BS 6724 : 2016
354	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Mechanical test tensile test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.14, BS 6724 : 2016
355	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Pressure test at high temperature	Cl.14, BS 6724 : 2016
356	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Shrinkage test	Cl.14, BS 6724 : 2016
357	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Tear Resistance test	BS 6724 : 2016
358	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Volume Resistivity test	Cl.14, BS 6724 : 2016
359	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Water Immersion test (Absence of faults in the insulation)	BS 6724 : 2016
360	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermosetting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	Cl.14, BS 6724 : 2016
361	ELECTRICAL- CABLES & WIRES	Electric Cables Armoured cables with thermosetting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Halogen Acid Test	BS EN 50363-8 : 2005 / Cl.14, BS 6724 : 2016



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362	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dC, Electric Cables Armoured cables with thermoseting insulation for rated voltages 600/1000 V and 1900/3300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Water immersion test (Absence of faults in the insulation)	Table 3, Sl.No.1,IS 17293-2020 / BS 6724 : 2016
363	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dC, Electric Cables - Thermosetting insulated, armoured cables of rated voltages 600/1000 V & 1900/3300 V for fixed installation	Cold Elongation test	Table 3,Sl.No.8, IS 17293-2020 / Cl.14, BS 5467 : 2016
364	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dc, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases , HFFR cables for working voltages upto and including 1100 Volts	Cold impact test	Table 3,Sl.No. 6, IS 17293-2020 / Table 9,(iv)(g) IS 17505-2021 / Cl.5, Table 2 of IS 17048 :2018, Am1-2021, IS 10810 PART -21-
365	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dc, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases , HFFR cables for working voltages upto and including 1100 Volts	Halogen acid test/ pH and conductivity test	Table 3, Sl.No.16, IS 17293-2020 / Table 9,(iv)(m),IS 17505-(part-I)-2021 / Table 2 Cl. II k, Cl.IIIc(viii), Cl.III e(viii) of IS 17048 : 2018, Am1-2021
366	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dc, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases , HFFR cables for working voltages upto and including 1100 Volts	High Voltage Test	Table 3, 1.2, IS 17293-2020 / Table 9, SI.No. (vi) IS 17505(Part-I)-2021 / Table 2 Cl. I(a), Cl.II(h),Cl.III c(ii),Cl.IIIf(i) of IS 17048: 2018, Am1-2021
367	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dc, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases , HFFR cables for working voltages upto and including 1100 Volts	Insulation Resistance test/Volume Resistivity test	Table 3, Sl.No. 1.4, IS 17293-2020 / Table 9, Sl.No. (iv)(q) IS 19505(Part-I)-2021 / Table 2 Cl. II(g), Cl.IIIc(iii) of IS 17048 :2018, Am1-2021
368	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dc, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases , HFFR cables for working voltages upto and including 1100 Volts	Smoke density test,smoke emission of complete cable	Table 3, Sl.No. 15, IS 17293-2020 / Table 9,Sl.No. (iv),(n) IS 17505 (Part-10-2021 / Table 2 Cl. III f (v)ii) of IS 17048 : 2018, Am1-2021
369	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dc, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases, HFFR cables for working voltages upto and including 1100 Volts	Cold bend test (Mandrel Diameter: 5mm to 130 mm)	Tabl3 3,Sl.No.7, IS 17293-2020 / Table 9,(iv)(f), IS 17505-2021 / Table 2 of IS 17048 : 2018, Am1-2021
370	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dc, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases, HFFR cables for working voltages upto and including 1100 Volts	Conductor Resistance test	Table 3,I.1, IS 17293-2020 / Table 9, (i)(b), IS 17505(Part-I) : 2021 / Table 2 of IS 17048 :2018, Am1-2021
371	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dc, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases, HFFR cables for working voltages upto and including 1100 Volts	Elongation at Break	Table 11, IS 17293:2020 / Table 9, (iv)a,b, IS 17505(Part- I)-2021 / Cl.5,Table 2 of IS 17048 : 2018, Am1-2021



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372	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dc, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases, HFFR cables for working voltages upto and including 1100 Volts	Fluorine Content test	Annex J, IS 17293- 2020 / Table 9, Annex F, IS 17505(Part- I)-2021 / IS 17048 : 2018, Am1-2021
373	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dc, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases, HFFR cables for working voltages upto and including 1100 Volts	Tensile strength test	Table 11, Sl.No.1, IS 17293-2020 / Table 9, Sl.No. (iv), IS 17505(Part-I)-2021 / Table 2 Cl. II(a), Cl.II(f), Cl.IIIa(iv), Cl.c and Cl.e of IS 17048 : 2018, Am1-2021
374	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dc, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases, HFFR cables for working voltages upto and including 1100 Volts	Thickness and Dimension test	Table 3, sl.No. 2 IS 17293-2020 / Table 9, Sl.No. ii, IS 17505(Part-I)-2021 / Table 2 Cl. II(e), Cl.III(b) of IS 17048 : 2018, Am1-2021
375	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dC, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases ,HFFR cables for working voltages upto and including 1100 Volts	Ageing in Air Oven, compatibility test	Table 3,sl.No.5, Table 11 IS 17293:2020 / Table 9 (iv)b IS 17505-2021 / Table Cl.5, Table 2 of IS 17048 : 2018, Am1-2021
376	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dc,, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases, HFFR cables for working voltages upto and including 1100 Volts	Hot set test	Table 11, sl.No. 1.3-IS 17293-2020 / Table 9, Sl.No. 9iv((c), IS 17505-2021 / Table 2 Cl. II(m), Cl.IIIc(xi), Cl.IIIe(viii) of IS 17048 : 2018, Am1-2021
377	ELECTRICAL- CABLES & WIRES	Electric cables for photovoltaic systems for rated voltage 1500 V dc,, Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases, HFFR cables for working voltages upto and including 1100 Volts	Hot set test	Table 11, sl.No. 1.3-IS 17293-2020 / Table 9, Sl.No. 9iv((c), IS 17505-2021 / Table 2 Cl. II(m), Cl.IIIc(xi), Cl.IIIe(viii) of IS 17048 : 2018, Am1-2021
378	ELECTRICAL- CABLES & WIRES	Electric Cables of rated voltage up to and including 0,6/1,0 kV	Circuit Integrity test (Fire Alone test)	IEC 60331-11 : 1999, Am1:2009 / IEC 60331-21 : 1999
379	ELECTRICAL- CABLES & WIRES	Electric cables of rated voltage up to and including 0,6/1,0 kV	Circuit integrity test with fire and mechanical shock	BS EN 60331-1:2019, IEC 60331-1 : 2018
380	ELECTRICAL- CABLES & WIRES	Electric cables of rated voltage up to and including 0,6/1,0 kV	Circuit Integrity test with mechanical shock	BS EN 60331-2:2016, IEC 60331-2 : 2018
381	ELECTRICAL- CABLES & WIRES	Electric cables of rated voltage up to and including 0,6/1,0 kV	Circuit Integrity test with mechanical shock	BS EN 60331-3:2016, IEC 60331-3 : 2018
382	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Ageing in Air Oven	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / Cl.11, BS 50525-2-11:2011 / Cl.11, BS



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383	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Breaking Strength test (Elongation at Break)	BS EN 50363-8 : 2005, BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.11, BS 6231 : 2006
384	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Cold Bend test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-51:2011 / CI.11, BS 6231 : 2006
385	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Cold Elongation test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-51:2011 / CI.11, BS 6231 : 2006
386	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Fire Retardant/ Flammability Test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-51:2011 / Cl.11, BS 6231 : 2006
387	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Heat Shock test	BS EN 50363-8 : 2005 / BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.11, BS 6231 : 2006
388	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Loss of mass test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.11, BS 60231 : 2006



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389	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Mechanical test Tensile test	Cl.11, BS 6231 : 2006
390	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Power frequency test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.11, BS 6231 : 2006
391	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Power Frequency withstand test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.11, BS 6231 : 2006
392	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Pressure test at high temperature	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.11, BS 6231 : 2006
393	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Thermal Stability Test for PVC material	Cl.11, BS 6231 : 2006
394	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Water Immersion test (Absence of faults in the insulation)	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.11, BS 6231 : 2006
395	ELECTRICAL- CABLES & WIRES	Electric cables single core PVC insulated flexible cables of rated voltage 600/1000 V for switchgear and control gear wiring	Water Immersion test (Absence of faults in the insulation) / Long term Resistance to DC	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.11, BS 6231 : 2006



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396	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured fire resistant cables for rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Halogen Acid Test	Cl.14, BS 7846 : 2015
397	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Cold Bend test	Cl.14, BS 7846 : 2015
398	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Cold Elongation test	BS EN 50363-8 : 2005 / Cl.14, BS 7846 : 2015
399	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Mechanical test Cold Impact test	Cl. 14, BS 7846 : 2015
400	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Water Absorption (Gravimetric)	Cl.14, BS 6724 : 2016
401	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured fire resistant cables for rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Armour resistivity test	Cl. 14, BS 7846 : 2015
402	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured fire resistant cables for rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Circuit Integrity test, F2, F30, F60, F120 (Resistance to Fire, Resistance to water, Resistance to Mechanical Shock and Resistance to fire with direct mechanical impact and water jet)	BS EN 50200 : 2015 / BS 7629-1 : 2015 / Cl.14, BS 7846 : 2015
403	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured fire resistant cables for rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Conductor resistance test	Cl. 14, BS 7846 : 2015
404	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured fire resistant cables for rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Flame Retardance test on Bunched Cables	Cl. 14, BS 7846 : 2015
405	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured fire resistant cables for rated voltage 600/1000 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire	Flame Retardancy test (Flammability test)	Cl. 14, BS 7846 : 2015
406	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	Cl. 14, BS 7846 : 2015



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407	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Dimension of Armour Material	Cl. 14, BS 7846 : 2015
408	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Insulation Resistance test	CI.14, BS 7846 : 2015
409	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Mechanical test Cold impact test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 BS EN 50363-8 : 2005 / Cl.14, BS 7846 : 2015
410	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Mechanical test Tensile test	Cl. 14, BS 7846 : 2015
411	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Power frequency withstand test	Cl. 14, BS 7846 : 2015
412	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Power frequency withstand test	Cl. 14, BS 7846 : 2015
413	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Tear Resistance test	Cl. 14, BS 7846 : 2015
414	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Thickness and dimension test	Cl. 14, BS 7846 : 2015
415	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Water Absorption (Gravimetric)	Cl. 14, BS 7846 : 2015
416	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated armoured Fire resistiant cable of rated voltage 600/1000 V having low emission of smoke and corrosive gases when affected by fire	Wrapping test	Cl. 14, BS 7846 : 2015
417	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrive gases	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	Cl.13, BS 7211 : 2012, Am1-2020



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418	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrive gases	Water Absorption (Gravimetric)	Cl.13, BS 7211 : 2012, Am1-2020
419	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Ageing in air oven	Cl.13, BS 7211 : 2012, Am1-2020
420	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Cold Bend test	Cl.12, 13, BS 7211 : 2012, Am1-2020,
421	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Cold Elongation test	Cl.13, BS 7211 : 2012, Am1-2020
422	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Conductor Resistance test	Cl.12,13, BS 7211 : 2012, Am1-2020
423	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Conductor Resistance test	Cl.14, BS 6724 : 2016
424	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Hot set test	Cl.12,13, BS 7211 : 2012, Am1-2020
425	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Insulation Resistance test	Cl.12,13, BS 7211 : 2012, Am1-2020
426	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Mechanical test Cold Impact test	Cl.12,13, BS 7211 : 2012, Am1-2020
427	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Mechanical test Tensile test	Cl.12,13, BS 7211 : 2012, Am1-2020
428	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Power Frequency withstand test	Cl.12, 13, BS 7211 : 2012, Am1-2020
429	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Pressure test at high temperature	BS EN 50363-8 : 2005 / Cl.12, BS 7211 : 2012, Am1-2020
430	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Shrinkage test	Cl.12,13, BS 7211 : 2012, Am1-2020
431	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Test for Resistance to cracking/Tear Resistance test	Cl.12,13, BS 7211 : 2012, Am1-2020



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432	ELECTRICAL- CABLES & WIRES	Electric cables- Thermosetting insulated non armoured cables for voltages up to and including 450/750 V and having low emission of smoke and corrosive gases	Thickness and dimension test	Cl.13, BS 7211 : 2012, Am1-2020
433	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Ageing in air oven	Cl.16, BS 7835 : 2007
434	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Bending test	Cl.16, BS 7835 : 2007
435	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Capacitance Measurement	Cl.16, BS 7835 : 2007
436	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Cold Bend test	Cl.16, BS 7835 : 2007
437	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Cold Elongation test	Cl.16, BS 7835 : 2007
438	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Conditioning test	Cl.16, BS 7835 : 2007
439	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Dimension of Armour Material	Cl.16, BS 7835 : 2007
440	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Electrical Heat Cycle test	Cl.16, BS 7835 : 2007
441	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Hot Deformation test/Pressure test at high temperature	Cl.16, BS 7835 : 2007
442	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Hot set test	Cl.16, BS 7835 : 2007
443	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Impulse withstand Test	Cl.16, BS 7835 : 2007
444	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Insulation Resistance test	Cl.16, BS 7835 : 2007
445	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Mechanical test Cold impact test	Cl.16, BS 7835 : 2007



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446	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Power frequency withstand test	Cl.16, BS 7835 : 2007
447	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Power frequency withstand test	Cl.16, BS 7835 : 2007
448	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Pressure test at high temperature	Cl.16, BS 7835 : 2007
449	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Shrinkage test	Cl.16, BS 7835 : 2007
450	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Tan Delta Measurement at ambient &elevated temperature	Cl.16, BS 7835 : 2007
451	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Volume Resistivity test	Cl.16, BS 7835 : 2007
452	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Water Absorption (Gravimetric)	Cl.16, BS 7835 : 2007
453	ELECTRICAL- CABLES & WIRES	Electric cables. Armoured cables with thermosetting insulation for rated voltages from 3.8/6.6 kV to 19/33 kV having low emission of smoke	Wrapping test	Cl.16, BS 7835 : 2007
454	ELECTRICAL- CABLES & WIRES	Extruded and laminated dielectric shielded cable joints rated 2500 V to 500 kV	Impulse withstand Test	IEEE Std 404 : 2012
455	ELECTRICAL- CABLES & WIRES	Extruded power Cables- for working voltages for 1.1kV up to 3.3 kV, from 3.3kV (UE) to up to and including 33 kV(E)	Load Cycle test	IS 13573 Part-1, 2 & 3 : 2011, RA 2016
456	ELECTRICAL- CABLES & WIRES	Extruded power Cables- for working voltages for 1.1kV up to 3.3 kV, from 3.3kV (UE) to up to and including 33 kV(E)	Load Cycle test	IS 13573, part-1, 2 & 3 : 2011, RA 2016
457	ELECTRICAL- CABLES & WIRES	Flammability of solid electrical insulating materials when exposed to an igniting source	Flame Retardant test (Flammability test)	UL 94-2023 / BS EN 60695-11-10:2013, IEC 60695-11-10 : 2013
458	ELECTRICAL- CABLES & WIRES	Grading Capacitors for high voltage alternating current circuit breakers-General	Partial Discharge test	IEC 62146-1/2016, IEC 62146-2 /2023
459	ELECTRICAL- CABLES & WIRES	Halogen Free Flame Retardant (HFFR) Cables for Working Voltages up to and including 1100 Volts , Elastomer Insulated Cables	Ozone Resistance test	BS EN 50363-8 : 2005 / IS 17048 :2018, Am1-2021 / IS 10810 (Part-13) : 1984, RA-2021 / IEC 60811-403 : 2012 /BS EN 60811-403:2012 / IS 9968 (Part-1) : 1988, RA 2020 / IS 9968 (Part-2) : 2002, RA2017 / IS 14494 : 2019



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460	ELECTRICAL- CABLES & WIRES	HFFR cables for working voltages upto and including 1100 Volts	Tensile test on Conductor	Cl.5,Table 2 of IS 17048: 2018, Am1-2021
461	ELECTRICAL- CABLES & WIRES	HFFR cables for working voltages upto and including 1100 Volts	Water immersion test	Table 2 Cl. I(a), Cl.II(h),Cl.III c(ii),Cl.IIIf(i) of IS 17048 :2018, Am1-2021
462	ELECTRICAL- CABLES & WIRES	HFFR cables for working voltages upto and including 1100 Volts	Water immersion test-DC	Table 2 Cl. Illf(vi) of IS 17048 : 2018, Am1-2021
463	ELECTRICAL- CABLES & WIRES	HFFR cables for working voltages upto and including 1100 Volts	Wrapping test	Table 2 Cl.II b, Cl.III a (iv) of IS 17048 : 2018, Am1-2021
464	ELECTRICAL- CABLES & WIRES	Hot Dipped Galvanized coating on round steel wires	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	IS 4826 , 1979, RA : 2021
465	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Breaking Strength test	Cl.19, BS 6480 : 2019
466	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Cold Bend test	Cl.19, BS 6480 : 2019
467	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Cold Elongation test	Cl.19, BS 6480 : 2019
468	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Conditioning test	Cl.19, BS 6480 : 2019
469	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Conductor Resistance test	Cl.19, BS 6480 : 2019
470	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Dimension of Armour Material	Cl.19, BS 6480 : 2019
471	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Drainage test	Cl.19, BS 6480 : 2019
472	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Dripping test	Cl.19, BS 6480 : 2019
473	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Elongation at break	Cl.19, BS 6480 : 2019
474	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Flame Retardant test (Flammability test)	Cl.19, BS 6480 : 2019



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475	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	Cl.19, BS 6480 : 2019
476	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Heat Shock test	Cl.19, BS 6480 : 2019
477	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Hot Deformation test	Cl.19, BS 6480 : 2019
478	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Loss of Mass test	Cl.19, BS 6480 : 2019
479	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Loss of Mass test	Cl.19, BS 6480 : 2019
480	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Mechanical test Cold impact test	Cl.19, BS 6480 : 2019
481	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Mechanical test Cold Impact test	Cl.19, BS 6480 : 2019
482	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Mechanical Test -Tensile Test	Cl.19, BS 6480 : 2019
483	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Pressure test at high Temperature	Cl.19, BS 6480 : 2019
484	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Tan Delta Measurement at ambient &elevated temperature	Cl.19, BS 6480 : 2019
485	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Tear Resistance test	Cl.19, BS 6480 : 2019
486	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Test for Resistance to cracking	Cl.19, BS 6480 : 2019
487	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33 000 V	Thickness and dimension test	Cl.19, BS 6480 : 2019
488	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33000 V	Capacitance Measurement	Cl.19, BS 6480 : 2019



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489	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33000 V	Insulation Resistance Test/ Volume resistivity/ IR Constant	Cl.19, BS 6480 : 2019
490	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33000 V	Power frequency Withstand test	Cl.19, BS 6480 : 2019
491	ELECTRICAL- CABLES & WIRES	Impregnated paper-insulated lead or lead alloy sheathed electric cables of rated voltages up to and including 33000 V	Power frequency withstand test	Cl.19, BS 6480 : 2019
492	ELECTRICAL- CABLES & WIRES	Instrument Transformers	Capacitance Measurement	Cl.7.4.3, IEC 61869-1 : 2007
493	ELECTRICAL- CABLES & WIRES	Instrument Transformers	Capacitance Measurement	IS 16227-1 : 2016
494	ELECTRICAL- CABLES & WIRES	Instrument Transformers	Partial discharge Test	BS EN 61869-1:2009, Cl.7.3.2, IEC 61869-1 : 2023
495	ELECTRICAL- CABLES & WIRES	Instrument Transformers	Partial Discharge test	IS-16227 Part-I : 2016
496	ELECTRICAL- CABLES & WIRES	Instrument Transformers	Tan Delta Measurement	IS 16227-1 : 2016
497	ELECTRICAL- CABLES & WIRES	Instrument Transformers	Tan Delta Measurement at ambient	BS EN 61869-1:2009, Cl.7.4.3, IEC 61869-1 : 2023
498	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Capacitor Voltage Transformers	Tan Delta Measurement	BS EN 61869-5:2011, Cl.7.4.3, IEC 61869-5 : 2011
499	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Voltage Transformers	Capacitance Measurement	BS EN 61869-2:2012, Cl.7.4.3, IEC 61869-2 : 2012
500	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Capacitor Voltage Transformers	Capacitance Measurement	BS EN 61869-5:2011, Cl.7.4.3, IEC 61869-5 : 2011
501	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Capacitor Voltage Transformers	Partial Discharge test	BS EN 61869-5:2011, Cl.7.3.2, IEC 61869-5 : 2011
502	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Capacitor Voltage Transformers	Partial Discharge test	IS 16227 Part-V : 2015
503	ELECTRICAL- CABLES & WIRES	Instrument Transformers- current Transformers	Capacitance Measurement	BS EN 61869-2:2012, Cl.7.4.3, IEC 61869-2 : 2012
504	ELECTRICAL- CABLES & WIRES	Instrument Transformers- current Transformers	Capacitance Measurement	IS -16227-2 : 2016
505	ELECTRICAL- CABLES & WIRES	Instrument Transformers- current Transformers	Partial discharge Test	BS EN 61869-2:2012, Cl.7.3.1, IEC 61869-2 : 2012
506	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Current Transformers	Tan Delta Measurement	BS EN 61869-2:2012, Cl.7.4.3, IEC 61869-2 : 2012
507	ELECTRICAL- CABLES & WIRES	Instrument Transformers- current Transformers	Tan Delta Measurement	IS -16227-2 : 2016



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508	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Voltage Transformers	Capacitance Measurement	IS-16227-5 : 2015
509	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Voltage Transformers	Tan Delta Measurement	BS EN 61869-3:2011, IEC 61869 part 3 : 2011
510	ELECTRICAL- CABLES & WIRES	Instrument Transformers- Voltage Transformers	Tan Delta Measurement	IS-16227-5 : 2015
511	ELECTRICAL- CABLES & WIRES	Instrument Transformers-current Transformers	Partial Discharge test	IS 16227 Part-II : 2016
512	ELECTRICAL- CABLES & WIRES	Insulated Bushing for alternating voltages above 1000V	Partial Discharge test	BS EN 60137:2017, Cl. 9.5, IEC 60137 : 2017, Am1:2018
513	ELECTRICAL- CABLES & WIRES	Insulated Cables and their accessories for power systems insulating piercing branch connectors for overhead distribution and services with bundle assembled cores of rated Voltage 0.6 /1 kV	Temperature Rise test	NFC: 33-020 : 2013
514	ELECTRICAL- CABLES & WIRES	Insulated Cables and their accessories for power systems insulating piercing branch connectors for overhead distribution and services with bundle assembled cores of rated Voltage 0.6 /1 kV	Resistance measurement	NFC: 33-020 : 2013
515	ELECTRICAL- CABLES & WIRES	Insulated Cables and their accessories for power systems insulating piercing branch connectors for overhead distribution and services with bundle assembled cores of rated Voltage 0.6 /1 kV	Resistance measurement	NFC: 33-020 : 2013
516	ELECTRICAL- CABLES & WIRES	Insulating and sheathing material of electric cables	Ageing in air oven	IS 10810 pt. 10,11,12,14,15,16& 30 1984, RA 2016 /BS EN 60811-404,409,412,502,503,5 08,509 &507 : 2012 IEC 60811-404,409,412,502,503,5 08,509 &507 : 2012
517	ELECTRICAL- CABLES & WIRES	Insulating and sheathing material of electric cables	Carbon Black content test	IS 10810 pt. 32, 1984, RA 2020 /BS EN 80811-605:2012, IEC 60811-605 : 2012
518	ELECTRICAL- CABLES & WIRES	Insulating and sheathing material of electric cables	Heat Shock test	S 10810 (Part-14) / 1984 BS EN 60811-509 / 2012, A1-2017 IEC 60811-509 /2012. A1
519	ELECTRICAL- CABLES & WIRES	Insulating and sheathing material of electric cables	Hot Deformation test	IS 10810 pt. 10,11,12,14,15,16& 30 1984, RA 2016 /BS EN 60811-404,409,412,502,503,5 08,509 &507 : 2012, IEC 60811-404,409,412,502,503,5 08,509 &507 : 2012
520	ELECTRICAL- CABLES & WIRES	Insulating and sheathing material of electric cables	Hot set test	IS 10810 pt. 30, 1984 / BS EN 60811-507:2012, IEC 60811-507 : 2012


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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
521	ELECTRICAL- CABLES & WIRES	Insulating and sheathing material of electric cables	Loss of mass test	IS 10810 pt. 10,11,12,14,15,16& 30 1984 /BS EN 60811-404,409,412,502,503,5 08,509 &507 : 2012 IEC 60811-404,409,412,502,503,5 08,509 &507 : 2012
522	ELECTRICAL- CABLES & WIRES	Insulating and sheathing material of electric cables	Loss of mass test	IS 10810 pt. 10,11,12,14,15,16& 30 1984 /BS EN 60811-404,409,412,502,503,5 08,509 &507 : 2012 IEC 60811-404,409,412,502,503,5 08,509 &507 : 2012
523	ELECTRICAL- CABLES & WIRES	Insulating and sheathing material of electric cables	Mineral oil immersion test	IS 10810 pt. 31 1984 /BS EN 60811-404:2012, IEC 60811-404 : 2012
524	ELECTRICAL- CABLES & WIRES	Insulating and sheathing material of electric cables	Pressure test at high temperature	IS 10810 pt. 10,11,12,14,15,16& 30 1984, RA 2016 /BS EN 60811-404,409,412,502,503,5 08,509 & 507 : 2012 IEC 60811-404,409,412,502,503,5 08,509 & 507 : 2012
525	ELECTRICAL- CABLES & WIRES	Insulating and sheathing material of electric cables	Shrinkage test	IS 10810 pt. 10,11,12,14,15,16& 30 1984 / BS EN 60811-404,409,412,502,503,5 08,509 &507 : 2012, IEC 60811-404,409,412,502,503,5 08,509 &507 : 2012
526	ELECTRICAL- CABLES & WIRES	Insulating and sheathing material of electric cables	Test for resistance for cracking	IS 10810 pt. 10,11,12,14,15,16& 30 1984, RA 2016 /BS EN 60811-404,409,412,502,503,5 08,509 &507 : 2012, IEC 60811-404,409,412,502,503,5 08,509 &507 : 2012
527	ELECTRICAL- CABLES & WIRES	Insulating and sheathing materials of electric Cables	Water Absorption (Electrical)	BS EN 60811-402:2012, IEC 60811-402 : 2012
528	ELECTRICAL- CABLES & WIRES	Insulating and sheathing materials of electric Cables	Mechanical test Tensile strength test	BS EN 60811-501:2012, IEC 60811 - 501: 2012
529	ELECTRICAL- CABLES & WIRES	Insulating and sheathing materials of electric Cables	Tear Resistance test	BS EN 60811-501:2012, IEC 60811-501 : 2012
530	ELECTRICAL- CABLES & WIRES	Insulating and sheathing materials of electric cables	Thermal Stability Test for PVC material	BS EN 60811-405:2012, IEC 60811-405 : 2012



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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
531	ELECTRICAL- CABLES & WIRES	Insulating and sheathing materials of electric Cables	Water Absorption Test (Gravimetric)	BS EN 60811-402:2012, IEC 60811-402 : 2012
532	ELECTRICAL- CABLES & WIRES	Joint for 600/1000 volts CNE Cable Systems	Power Frequency Withstand Test/ Dielectric strength	Cl.8, BSEN 50393 : 2015
533	ELECTRICAL- CABLES & WIRES	Joint for 600/1000 volts CNE Cable Systems	Power Frequency Withstand Test/ Dielectric strength	Cl.8, BSEN 50393 : 2015
534	ELECTRICAL- CABLES & WIRES	Joints & Terminations of Polymeric cables for working voltages from 6.6 kV – 33 kV, & Cable Accessories Joints & Termination	Short time current test (Dynamic & Thermal Short Circuit Test)	"IS 13573-1:2011 RA:2016, IS 13573-2:2011 RA:2021, IS 13573-3:2011 RA:2016, IEC 60502-4:2023, IEC 61442: 2023"
535	ELECTRICAL- CABLES & WIRES	Joints and Termination of Polymeric Cables for working voltages from 6.6kV up to and including 33 kV	Mechanical Test: Impact Test	BS EN IEC 60502-4:2021, IEC 60502-4-2023 / BS EN 61442:2005, IEC 61442-2023 / CENELEC HD 629-1 S3-2019 / CENELEC HD 629.1.S2 2006 / IS 13573 part 2 & part 3 : 2011
536	ELECTRICAL- CABLES & WIRES	Joints for 600/1000 volts CNE Cable Systems	Electrical Heat cycle test	Cl.7, BS EN-50393 : 2015
537	ELECTRICAL- CABLES & WIRES	Joints for 600/1000 volts CNE Cable Systems	Impulse withstand test	Cl.7, BS EN - 50393 : 2015
538	ELECTRICAL- CABLES & WIRES	Joints for 600/1000 volts CNE Cable Systems	Insulation Resistance test	Cl.7, BS EN-50393 : 2015
539	ELECTRICAL- CABLES & WIRES	Joints for 600/1000 volts CNE Cable Systems	Mechanical Test: Impact Test	Cl.8, BS EN-50393 : 2015
540	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites- distribution cables with extruded insulation or rated voltages of 11 kV to 33 $$	Impulse withstand test	Table 5, BS-7870-4.10 : 2011, Am1-2016
541	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-distribution cables with extruded insulation or rated voltages of 11 kV to 33 $$	Breaking Strength (Elongation at break test)	BS 7870-4.10, : 2011, Am1-2016
542	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33	Ageing in air bomb	Cl.5, Table 4, 5, BS 7870-4.10 : 2011, Am1-2016
543	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33	Ageing in air oven	Table 5, BS 7870-4.10 : 2011, Am1-2016
544	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33	Carbon Black content test	Table 5, BS 7870-4.10 : 2011, Am1-2016
545	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33	Conductor Resistance test	Table 4, BS 7870-4.10 : 2011, Am1-2016



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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
546	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33	Hot set test	Table 5, BS 7870-4.10 : 2011, Am1-2016
547	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33	Hot set test	Table 5, BS 7870-4.10 : 2011, Am1-2016
548	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33	Pressure test at high temperature	Table 5, BS 7870-4.10 : 2011, Am1-2016
549	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33	Shrinkage test	Table 5, BS 7870-4.10 : 2011, Am1-2016
550	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilites-Specification for distribution cables with extruded insulation or rated voltages of 11 kV to 33	Shrinkage test	Table 5, BS 7870-4.10 : 2011, Am1-2016
551	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilities- distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Capacitance Measurement	Table 5, BS-7870-4.10 : 2011, Am1-2016
552	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilities-distribution cables with extruded insulation or rated voltages of 11 kV to 33	Mechanical Test Tensile test	BS 7870-4.10 : 2011, Am1-2016
553	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilities-distribution cables with extruded insulation or rated voltages of 11 kV to 33 $$	Power frequency withstand test	Table 5, BS 7870-4.10, Am1 : 2011, Am1-2016
554	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilities-distribution cables with extruded insulation or rated voltages of 11 kV to 33	Power frequency withstand test	Table 5, BS 7870-4.10, Am1 : 2011, Am1-2016
555	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilities-distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Electrical Heat Cycle test	Table 5, BS 7870-4.10 : 2011, Am1-2016
556	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilities-distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Partial Discharge test	Table 5, BS-7870-4.10 : 2011, Am1-2016
557	ELECTRICAL- CABLES & WIRES	LV & MV Polymeric Insulated Cables for use by distribution and generation Utilities-distribution cables with extruded insulation or rated voltages of 11 kV to 33 kV	Tan delta at ambient and elevated temperature	Table 5, BS-7870-4.10 : 2011, Am1-2016
558	ELECTRICAL- CABLES & WIRES	Mild Steel wires, Formed wires And tapes For armouring of Cables	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	Cl.9, IS 3975, 1999, RA : 2021
559	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Dimension of Armour Material	Cl.24, IS 692, 1994, RA : 2020
560	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Tensile strength test/Breaking load Test	Cl.24, IS 692, 1994, RA : 2020



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561	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Ageing in air oven	Cl.24, IS 692, 1994, RA : 2020
562	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Ageing in air oven	Cl.24, IS 692, 1994, RA : 2020
563	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Armour Resistivity Test	Cl.24, IS 692, 1994, RA : 2020
564	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Bending test	IS 692, 1994, RA : 2020
565	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Conductor Resistance test	Cl.24, IS 692, 1994, RA : 2020
566	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Drainage Test	Cl.24, IS 692, 1994, RA : 2020
567	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Dripping Test	Cl.24, IS 692, 1994, RA : 2020
568	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	Cl.24, IS 692, 1994, RA : 2020
569	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Hot Deformation Test	Cl.24, IS 692, 1994, RA : 2020
570	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Loss of Mass test	Cl.24, IS 692, 1994, RA : 2020
571	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Loss of Mass test	Cl.24, IS 692, 1994, RA : 2020
572	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Power frequency withstand test	Cl.24, IS 692, 1994, RA : 2020
573	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Power frequency withstand test	Cl.24, IS 692, 1994, RA : 2020
574	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Shrinkage test	Cl.24, IS 692, 1994, RA : 2020
575	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Shrinkage test	Cl.24, IS 692, 1994, RA : 2020
576	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Tan Delta Measurement at ambient and elevated temperature	Cl.24, IS 692, 1994, RA : 2020
577	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Thickness and dimension test	Cl.24, IS 692-1994 / Cl. 19, BS 6480 : 2019
578	ELECTRICAL- CABLES & WIRES	Paper Insulated Lead Sheathed Cables for rated Voltages up to and including 33 kV	Volume Resistivity Test	Cl.24, IS 692, 1994, RA : 2020
579	ELECTRICAL- CABLES & WIRES	Plastics	Fire resistance/ Flammability	ASTM-D-635 : 2022



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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
580	ELECTRICAL- CABLES & WIRES	polymeric materials of cables	Halogen Acid test	BS EN 60754-1:2014, Am1-2020, IEC 60754-1 : 2011, Am1 : 2019
581	ELECTRICAL- CABLES & WIRES	polymeric materials of cables	Halogen Acid Test	BS EN 60754-2:2014, Am1-2020, IEC 60754-2 : 2011, Am1:2019
582	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated Cables of rated Voltages up to and including 450/750 Volts	Breaking Strength test (Elongation at break test)	IEC 60227 (Part I to VI) : 2011
583	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated Cables of rated Voltages up to and including 450/750 Volts	Conductor Resistance test	IEC 60227(Part I to VI) : 2011
584	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated Cables of rated Voltages up to and including 450/750 Volts	Mechanical test Tensile test	IEC 60227 (Part I to VI) : 2011
585	ELECTRICAL- CABLES & WIRES	Polyvinyl Chloride Insulated Cables of rated Voltages up to and including 450/750 Volts	Wrapping test	IEC 60227(Part I to VI) : 2011
586	ELECTRICAL- CABLES & WIRES	Power & Control Cables	Circuit Integrity test Category C - Fire Alone test Category W- Fire with water test Category Z- Fire with Mechanical Shock	BS 6387 : 2013
587	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages 3.3kV upto 20.8/36 kV	Load Cycle test	CENELEC HD 629-1 S3 2019 / CENELEC HD 629.1 S2 2006 / EN 61442-2005 / DIN VDE 0278-629-1 : 2009
588	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages 3.3kV upto 20.8/36(42) kV	Load Cycle test	CENELEC HD 629.1 S3 -2019 / CENELEC HD 629.1.S2-2006 / EN 61442-2005 / DIN VDE 0278-629-1 : 2009
589	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages U up to 20.8/36(42) kV	DC withstand Test	CENELEC HD 629-1 S3 2019 / CENELEC HD 629.1 S2-2006 / DIN VDE 0278-629-1 : 2009
590	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages U up to 20.8/36(42) kV	Impulse withstand test	CENELEC HD 629-1 S3-2019 / CENELEC HD 629.1 S2-2006 / DIN 61442 : 2009
591	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages U up to 20.8/36(42) kV	Power frequency test	CENELEC HD 629-1 S3 2019 / CENELEC HD 629.1 S2-2006 / DIN VDE 0278-629-1 : 2009
592	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages U up to 20.8/36(42) kV	Power Frequency test	CENELEC HD 629-1 S3-2019 / CENELEC HD 629.1 S2 2006 / DIN VDE 0278-629-1 : 2009
593	ELECTRICAL- CABLES & WIRES	Power Cable Accessories with Nominal voltages U upto 30 kV	Mechanical Test: Impact Test	DIN VDE 0278-629 ,2009, /BS EN IEC 60502-4, Am 1-2021, IEC -60502-4- : 2023
594	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessoires – from 150 kV to 500 kV	Ageing in air oven	BS IEC 62067:2020, Cl.12, IEC 62067 : 2022



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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
595	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessoires - from 150 kV to 500 kV	Breaking Strength test (Elongation at break test)	BS IEC 62067:2020, Cl.12, IEC 62067 : 2022
596	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessoires - from 150 kV to 500 kV	Hot set test	IEC 60227, Part 1, 2, 3, 4, 5, 6 : 2011
597	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessoires – from 150 kV to 500 kV	Loss of mass test	IEC 60227, Part 1, 2, 3, 4, 5, 6 : 2011
598	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessoires - from 150 kV to 500 kV	Mechanical test Tensile test	IEC 60227, Part 1, 2, 3, 4, 5, 6 : 2011
599	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessoires - from 150 kV to 500 kV	Mineral Oil Immersion test	Cl.12, IEC 60227, Part 1, 2, 3, 4, 5, 6 : 2011
600	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessoires – from 150 kV to 500 kV $$	Pressure test at high temperature	Cl.12, IEC 60227, Part 1, 2, 3, 4, 5, 6 : 2011
601	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessoires – from 150 kV to 500 kV $$	Resistance to cracking tset	Cl.12, IEC 60227, Part 1, 2, 3, 4, 5, 6 : 2011
602	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessoires - from 150 kV to 500 kV	Shrinkage test	Cl.12, IEC 60227, Part 1, 2, 3, 4, 5, 6 : 2011
603	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessoires - from 150 kV to 500 kV	Thermal Stability Test for PVC material	Cl.12, IEC 60227 Part-1,2,3,4,5,6 : 2011
604	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – for rated voltages 6 kV to 30 kV- Test Requirements of accessories	Partial discharge Test	BS EN IEC 60502-4:2021, Table 5,6,&7, IEC 60502-4 : 2023
605	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 150 kV to 500 kV	Ageing in air ocen	BS IEC 62067:2020, Cl.12, IEC 62067 :2022
606	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – from 150 kV to 500 kV	Bending test	BS IEC 62067:2020, Cl.12, IEC 62067 : 2022
607	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – from 150 kV to 500 kV	Breaking Strength test (Elongation at break test)	Cl.12, IEC 60227 Part-1,2,3,4,5,6 : 2011
608	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – from 150 kV to 500 kV	Carbon Black content test	BS IEC 62067:2020, Cl.12, IEC 62067 : 2022
609	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – from 150 kV to 500 kV	Cold Elongation test	BS IEC 62067:2020/IEC 62067 : 2022
610	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – from 150 kV to 500 kV	Cold Impact test	BS IEC 62067:2020/IEC 62067 : 2022
611	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – from 150 kV to 500 kV	Fire Retardant Flammability Test	Cl.12, IEC 60227 Part-1,2,3,4,5,6 : 2011
612	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – from 150 kV to 500 kV	Hot set test	BS IEC 62067:2020, Cl.12, IEC 62067 : 2022
613	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – from 150 kV to 500 kV	Loss of mass test	BS IEC 62067:2020, Cl.12, IEC 62067 : 2022
614	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 150 kV to 500 kV	Mechanical test Tensile test	BS IEC 62067:2020, Cl.12, IEC 62067 : 2022



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615	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – from 150 kV to 500 kV $$	Partial discharge Test	BS IEC 62067:2020, Cl.12, IEC 62067 : 2022
616	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – from 150 kV to 500 kV $$	Power frequency withstand test	BS IEC 62067:2020, Cl.12, IEC 62067 : 2022
617	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – from 150 kV to 500 kV	Power frequency withstand test	BS IEC 62067:2020, Cl.12, IEC 62067 : 2022
618	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 150 kV to 500 kV	Pressure test at high temperature	BS IEC 62067:2020, Cl.12, IEC 62067 : 2022
619	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – from 150 kV to 500 kV	Resistivity test on semiconductor screen	BS IEC 62067:2020/IEC 62067 : 2022
620	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 150 kV to 500 kV	Shrinkage test	BS IEC 62067:2020, Cl.12, IEC 62067 : 2022
621	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 150 kV to 500 kV	Test for Resistance to cracking test	BS IEC 62067:2020, Cl.12, IEC 62067 : 2022
622	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 30 kV to 150 kV	Ageing in air oven	BS EN IEC 60840:2019, Am1:2021, Cl.12, IEC 60840 : 2020, Am1-2023
623	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 30 kV to 150 kV	Bending test	BS EN IEC 60840:2019, Am1:2021, Cl.12, IEC 60840 : 2020, Am1-2023
624	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 30 kV to 150 kV	Breaking strength test (Elongation at break test)	BS EN IEC 60840:2019, Am1:2021, Cl.12, IEC 60840 : 2020, Am1-2023
625	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 30 kV to 150 kV	Carbon Black content test	BS EN IEC 60840:2019, Am1:2021, Cl.12, IEC 60840 : 2020, Am1-2023
626	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 30 kV to 150 kV	Flame Retardant test (Flammability test)	BS EN IEC 60840:2019, Am1:2021, Cl.12, IEC 60840 : 2020, Am1-2023
627	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – from 30 kV to 150 kV	Hot set test	BS EN IEC 60840:2019, Am1:2021, Cl.12, IEC 60840 : 2020, Am1-2023
628	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories – from 30 kV to 150 kV	Impulse withstand test	BS EN IEC 60840:2019, Am1:2021, Cl.12, IEC 60840 : 2020, Am1-2023
629	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 30 kV to 150 kV	Loss of mass test	BS EN IEC 60840:2019, Am1:2021, Cl.12, IEC 60840 : 2020, Am1-2023
630	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 30 kV to 150 kV	Mechanical test Tensile test	BS EN IEC 60840:2019, Am1:2021, Cl.12, IEC 60840 : 2020, Am1-2023



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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
631	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 30 kV to 150 kV	Pre Qualification test	BS EN IEC 60840:2019, Am1:2021, Cl.12, IEC 60840 : 2020, Am1-2023
632	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 30 kV to 150 kV	Pressure test at high temperature	BS EN IEC 60840:2019, Am1:2021, Cl.12, IEC 60840 : 2020, Am1-2023
633	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 30 kV to 150 kV	Shrinkage test	BS EN IEC 60840:2019, Am1:2021, Cl.12, IEC 60840 : 2020, Am1-2023
634	ELECTRICAL- CABLES & WIRES	Power Cable with Extruded Insulation and their accessories - from 30 kV to 150 kV	Test for Resistance to cracking	BS EN IEC 60840:2019, Am1:2021, Cl.12, IEC 60840 : 2020, Am1-2023
635	ELECTRICAL- CABLES & WIRES	Power Cables	Thickness and dimension test	IS 10810 pt-1984 / IS 10810 pt.34-1984 / B5 EN 60811-201, 202, 203 : 2012, IEC 60811-201, 202, 203 : 2012
636	ELECTRICAL- CABLES & WIRES	Power Cables	Cold Elongation test	BS EN 60811-505 :2012, IEC 60811-505 :2012
637	ELECTRICAL- CABLES & WIRES	Power Cables	Flammability test on Bunch of Cables Test	IS 10810 Part 62, 1993, RA : 2019
638	ELECTRICAL- CABLES & WIRES	Power Cables	Armour Resisitivity test	IS 10810 pt. 5, 42 : 1984
639	ELECTRICAL- CABLES & WIRES	Power Cables	Capacitance Measurement	IS 10810 pt. 48 : 1984
640	ELECTRICAL- CABLES & WIRES	Power Cables	Cold bend test	BS EN 60811-504: 2012, IEC 60811-504: 2012, RA : 2020
641	ELECTRICAL- CABLES & WIRES	Power Cables	Cold Bend test	IS 10810 pt.20, 21, 1984, RA : 2016
642	ELECTRICAL- CABLES & WIRES	Power Cables	Cold Elongation test	IS 10810 pt.20, 21, 1984, RA : 2016
643	ELECTRICAL- CABLES & WIRES	Power Cables	Conductor Resistance test	IS 10810 pt. 5, 42 : 1984
644	ELECTRICAL- CABLES & WIRES	Power cables	DC Withstand test	BS EN 60229:2008, IEC 60229 : 2007
645	ELECTRICAL- CABLES & WIRES	Power Cables	Dimension of Armour Material	IS 10810 pt 36 : 1984
646	ELECTRICAL- CABLES & WIRES	Power Cables	Electrical heat cycle test	IS 10810 Pt. 49 : 1984
647	ELECTRICAL- CABLES & WIRES	Power Cables	Flame Retardant test (Flammability test)	IS 10810 pt.53, 1984, RA : 2016
648	ELECTRICAL- CABLES & WIRES	Power Cables	Impulse withstand Test/ Pre Qualification Test	Cl.8, IEEE Std-48 : 2009



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649	ELECTRICAL- CABLES & WIRES	Power Cables	Insulation Resistance test	IS 10810 pt.43, 1984, RA:2016
650	ELECTRICAL- CABLES & WIRES	Power Cables	IR Constant test	IS 10810 pt.43, 1984, RA:2016
651	ELECTRICAL- CABLES & WIRES	Power Cables	Load cycle test	IS 10810 Pt. 49 : 1984
652	ELECTRICAL- CABLES & WIRES	Power Cables	Mechanical test Cold Impact test	BS EN 60811-505:2012, IEC 60811-506: 2012
653	ELECTRICAL- CABLES & WIRES	Power Cables	Mechanical test Cold Impact test	IS 10810 Pt. 20, 21, 1984, RA : 2016
654	ELECTRICAL- CABLES & WIRES	Power Cables	Oxygen Index Test & Temperature Index test	IS 10810 pt. 58 :1998, RA 2019/ IS 10810 pt.64 : 2003, RA 2018
655	ELECTRICAL- CABLES & WIRES	Power Cables	Partial discharge Test	IS 10810 part 46, 1984, RA : 2016
656	ELECTRICAL- CABLES & WIRES	Power Cables	Power Frequency Withstand Test/ Dielectric strength	IS 10810 pt.45 : 1984
657	ELECTRICAL- CABLES & WIRES	Power Cables	Power Frequency Withstand Test/ Dielectric strength	IS 10810 pt.45 : 1984
658	ELECTRICAL- CABLES & WIRES	Power Cables	Swedish Chimney Flammability Test	IS 10810-Part 61, 1988, RA : 2021
659	ELECTRICAL- CABLES & WIRES	Power Cables	Tan Delta Measurement at ambient &elevated temperature	IS 10810 pt. 48 : 1984
660	ELECTRICAL- CABLES & WIRES	Power Cables	Tear Resistance test	IS 10810 part 17, 1986, RA : 2016
661	ELECTRICAL- CABLES & WIRES	Power Cables	Thermal Stability Test for PVC material	IS 10810 pt.60, 1988, RA : 2020
662	ELECTRICAL- CABLES & WIRES	Power Cables	Water Absorption (Gravimetric)	IS 10810 pt.33 : 1984
663	ELECTRICAL- CABLES & WIRES	Power Cables	Water absorption Test (Electrical)	IS 10810, Part-28, 1984, RA : 2016
664	ELECTRICAL- CABLES & WIRES	Power Cables - zinc coated iron and steel articles	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	IS 2633, 1986, RA : 2021
665	ELECTRICAL- CABLES & WIRES	Power Cables - zinc coated iron and steel articles	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	IS 6745 : 1972, RA : 2021
666	ELECTRICAL- CABLES & WIRES	Power Cables of rating above 150 kV and up to 500 kV	Thickness and dimension test	BS IEC 62067 : 2020, Cl.12, IEC 62067 : 2022



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667	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Thickness and dimension test	BS IEC 60502 Part 1 : 2019, Cl.17, 18, IEC 60502 part 1 : 2021
668	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Impulse withstand Test	BS EN 60502 part 2, Am1-2021, Cl.18, IEC 60502 part 2 : 2014
669	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 1 kV up to 3 kV	Power Frequency Withstand Test/ Dielectric strength	BS IEC 60502 part-1 : 2019, Cl.17, 18, IEC 60502 part 1 : 2021
670	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 1 kV up to 3 kV	Water Absorption (Gravimetric)	BS IEC 60502 part-1 : 2019, Cl.17,18, IEC 60502 part 1 : 2021
671	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 1 kV up to 3 kV	Water Immersion Test	BS IEC 60502 part-1 : 2019, Cl.17, 18, IEC 60502 part 1 : 2021
672	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 3 kV Cables for rated voltages above 30 kV up to 150 kV	Capacitance Measurement	BS EN 60502 part 2, Am1-2021, Cl.18, IEC 60502 part 2 : 2014
673	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Tan Delta Measurement at ambient and elevated temperature	BS EN 60502 part 2, Am1-2021, Cl.18, IEC 60502 part 2 : 2014
674	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Above 30 kV up to 150 kV	Capacitance Measurement	Cl.12, IEC 60840 : 2020
675	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Above 30 kV up to 150 kV	Conductor Resistance Test/ Armour resistivity Test	BS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 2020, Am1-2023
676	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Above 30 kV up to 150 kV	Power Frequency Withstand Test/ Dielectric strength	BS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 2020, Am1-2023
677	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Above 30 kV up to 150 kV	Tan Delta Measurement at ambient &elevated temperature	BS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 2020, Am1-2023
678	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Above 30 kV up to 150 kV	Thickness and dimension test	BS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 2020, Am1-2023
679	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Above 30 kV up to 150 kV	Cold Elongation test	BS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 2020, Am1-2023
680	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Above 30 kV up to 150 kV	Load cycle test	BS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 2020, Am1-2023
681	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Above 30 kV up to 150 kV	Load Cycle test	BS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 2020, Am1-2023



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682	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Above 30 kV up to 150 kV $$	Mechanical test Cold Impact test	BS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 2020, Am1-2023
683	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Above 30 kV up to 150 kV $$	Power frequency test	BS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 2020, Am1-2023
684	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Above 30 kV up to 150 kV $$	Pre Qualification test	BS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 2020, Am1-2023
685	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Above 30 kV up to 150 kV $$	Pre Qualification test	BS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 2020, Am1-2023
686	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Above 30 kV up to 150 kV $$	Water penetration test	BS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 2020, Am1-2023
687	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Above 30 kV up to 150 kV $$	Water Penetration test	BS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 2020, Am1-2023
688	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV $$	Ageing in air oven	BS IEC 60502 part 1 : 2019, Cl. 18, IEC 60502 part 1 : 2021
689	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Breaking Strength test (Elongation at Break test)	BS IEC 60502 part 1 : 2019, Cl.17, 18, IEC 60502 Part 1 : 2021
690	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV $$	Carbon Black content test	BS IEC 60502 part 1 : 2019, Cl.18, IEC 60502 part 1 : 2021
691	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Flame Retardant test (Flammability test)	BS IEC 60502 part 1 : 2019, Cl.17, 18, IEC 60502, Part-1 : 2021
692	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV $$	Flame Retardant test on Bunch of Cables	BS IEC 60502 part 1 : 2019, Cl.18, IEC 60502, Part-1 : 2021
693	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV $$	Hot set test	BS IEC 60502 part 1 : 2019, Cl.18, IEC 60502 part 1 : 2021
694	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Impulse withstand test	BS IEC 60502 part 1 : 2019, Cl.17,18, IEC 60502 part I- 2021
695	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV $$	Insulation Resistance test	BS IEC 60502 part 1 : 2019, Cl.18, IEC 60502 part 1 : 2021
696	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Loss of mass test	BS IEC 60502 part 1 : 2019, Cl.18, IEC 60502 part 1 : 2021
697	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Mechanical test Tensile test	BS IEC 60502 part 1 : 2019, Cl.18, IEC 60502 part 1 : 2021
698	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Mineral Oil Immersion test	BS IEC 60502 part 1 : 2019, Cl.18, IEC 60502 part 1 : 2021



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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
699	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Pressure test at high temperature	BS IEC 60502 part 1 : 2019, Cl.18, IEC 60502 part 1 : 2021
700	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Shrinkage test	BS IEC 60502 part 1 : 2019, Cl.18, IEC 60502 part 1 : 2021
701	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories Cables for rated voltages 1 kV up to 3 kV	Test for resistance to cracking test	BS IEC 60502 part 1 : 2019, Cl.18, IEC 60502 part 1 : 2021
702	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 1 kV up to 3 kV	Dimension of Armour Material	BS IEC 60502 part 1 : 2019, Cl.18, IEC 60502 part 1 : 2021
703	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Ageing in air oven	BS EN 60502 Part 2, Am1-2021, Cl.18, 19, IEC 60502, Part-2 : 2014
704	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Bending test	BS EN 60502 Part 2, Am1-2021,Cl.18, 19, IEC 60502, Part-2 : 2014
705	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Carbon Black content test	BS EN 60502 Part 2, Am1-2021, Cl.18, 19, IEC 60502, part-2 : 2014
706	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Cold bend test	BS EN 60502 Part 2, Am1-2021, Cl.18, 19, IEC 60502, part-2 : 2014
707	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Cold Elongation test	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502, Part-2 : 2014
708	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Conditioning test	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502, Part-2 : 2014
709	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Dimension of Armour Material	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502 part 2 : 2014
710	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Electrical heat cycle test	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502 part 2 : 2014
711	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Flame Retardant test (Flammability test)	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502, Part-2 : 2014
712	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Flame Retardant test on Bunch of Cables	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502, Part-2 : 2014
713	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Hot set test	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502, part-2 : 2014
714	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	IR Constant test	BS EN 60502 Part 2, Am1-2021, Cl.17, IEC 60502, part-2 : 2014



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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
715	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Load cycle test	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502 part 2 : 2014
716	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Loss of mass test	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502, part-2 : 2014
717	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Mechanical test Cold impact test	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502, Part-2 : 2014
718	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Mineral Oil immersion test	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502, part-2 : 2014
719	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Partial discharge Test	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502 (part 2) : 2014
720	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Power Frequency Withstand Test/ Dielectric strength	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502 part 2 : 2014
721	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Power Frequency Withstand Test/ Dielectric strength	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502 part 2 : 2014
722	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Pre Qualification test	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502 part 2 : 2014
723	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Pressure test at high temperature	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502, part-2 : 2014
724	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Resistivity test on semiconducting screen	BS EN 60502 Part 2, Am1-2021, IEC 60502, Part 2 : 2014
725	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Shrinkage test	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502, part-2 : 2014
726	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Shrinkage test	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502, part-2 : 2014
727	ELECTRICAL- CABLES & WIRES	Power Cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Strippability test on Semiconducting screen	BS EN 60502 Part 2, Am1-2021, IEC 60502, part 2 : 2014
728	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Test for Resistance to cracking	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502, Part-2 · 2014



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S.No Discipline / Group Materials or Products tested Component, parameter or characteristic tested of specification against which tests are gained with the set set of the set of t					
729 ELECTRICAL-CABLES & WIRES Power cables with extruded insulation and their accessories for rated voltages 6 k/ up to 30 k// part 2: 2014 Thickness and dimension test SFN 60502 Part 2, Amit 2: 2014 730 ELECTRICAL-CABLES & WIRES Power cables with extruded insulation and their accessories for rated voltages 6 k/ up to 30 k// part 2: 2014 Volume Resistivity test As EN 60502 Part 2, Amit 2021, C13, ELE 60502, Part 2: 2014 731 ELECTRICAL-CABLES & WIRES Power cables with extruded insulation and their accessories for rated voltages 6 k/ up to 30 k// Water Absorption (Gravimetc) and 2021, C13, ELE 60502 part 2: 2014 SE N 60502 Part 2, Amit 2021, C13, ELE 60502 part 2: 2014 732 ELECTRICAL-CABLES & WIRES Power cables with extruded insulation and their accessories for rated voltages 6 k/ up to 30 k// Capacitance measurement cases for rated voltages 6 k/ up to 500 k// SE N 60502 Part 2, Amit 2021, C13, ELE 60502 part 2: 2014 733 ELECTRICAL-CABLES & WIRES Power Cables with Extruded insulation and their accessories for rated voltages above 150 k/ up to 500 k// Conductor Resistance test 12,2,3,6,5,2011 12,3,4,5,6,2011 734 ELECTRICAL-CABLES & WIRES Power Cables with Extruded insulation and their accessories for rated voltages above 150 k/ up to 500 k// Conductor Resistance test 12,2,3,4,5,6,2011 12,3,4,5,6,2011 735 ELECTRICAL-CABLES & WIRES Power Cables wit	S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
730ELECTRICAL-CABLES & WIRESPower cables with extruded insulation and their accessories (mrated voltages 6 kV up to 30 kVvolume Resistivity testBS EN 66902 Part 2, Part-2: 2014731ELECTRICAL-CABLES & WIRESPower cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kVwater Absorption (Gravimetri) Part-2: 2014BS EN 66902 Part 2, Amn-2021, C118, IEC 60502 part 2: 2014732ELECTRICAL-CABLES & Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kVwater penetration testBS EN 66902 Part 2, Amn-2021, C118, IEC 60502 part 2: 2014733ELECTRICAL-CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVCapacitance measurement conductor Resistance test doualing catoria cast 2, 2014BS IEC 62067 : 2020, C112, IEC 62067 : 2022, C120, IEC 62067 : 2020, C112, IEC 62067 : 2022, C120, IEC 62067 : 2022, C120, IEC 62067 : 2022, C120, IEC 62067 : 20	729	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Thickness and dimension test	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502 part 2 : 2014
731ELECTRICAL-CABLES & WIRESPower cables with extruded insulation and their accessories for rated voltages 6 KV up to 30 kVWater Absorption (Gravimetrid)BS EN 6000 Part 2. part 2 : 2014732ELECTRICAL-CABLES & WIRESPower cables with extruded insulation and their accessories for rated voltages above 150 KV up to 500 kVCapacitance measurement gate castor in the cost of castor in the cos	730	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Volume Resistivity test	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502, Part-2 : 2014
732ELECTRICAL-CABLES & WIRESPower cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kVWater penetration testSEN 60502 Part 2, Am1-2021, C113, IEC 60502 part 2 : 2014733ELECTRICAL-CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVCapacitance measurementBS IEC 62067 : 2020, C112, IEC 	731	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Water Absorption (Gravimetric)	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502 part 2 : 2014
733ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 KV up to 500 kV WIRESCapacitance measurementBS IEC 62067 : 2022734ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 KV up to 500 kV WIRESConductor Resistance testC1.2, IEC 60027 Part 	732	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages 6 kV up to 30 kV	Water penetration test	BS EN 60502 Part 2, Am1-2021, Cl.18, IEC 60502 part 2 : 2014
734ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kV WiresConductor Resistance testCl.12, IEC 60227 Part 12,3,4,5,6;2011735ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kV 	733	ELECTRICAL- CABLES & WIRES	Power Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kV	Capacitance measurement	BS IEC 62067 : 2020, Cl.12, IEC 62067 : 2022
735ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVImpulse withstand Test/ Pre Qualification TestBS IEC 62067 : 2022736ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVLoad Cycle testBS IEC 62067 : 2022737ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVLoad Cycle testBS IEC 62067 : 2022738ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVLoad Cycle testBS IEC 62067 : 2020, Cl.12, IEC 62067 : 2022739ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVPre Qualification testBS IEC 62067 : 2020, Cl.12, IEC 62067 : 2022740ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVTan delta at ambient and elevated temperatureBS IEC 62067 : 2020, Cl.12, IEC 62067 : 2022741ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVWater penetration testBS IEC 62067 : 2020, Cl.12, IEC 62067 : 2022742ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVWater penetration testBS IEC 62067 : 2020, Cl.12, I	734	ELECTRICAL- CABLES & WIRES	Power Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kV	Conductor Resistance test	Cl.12, IEC 60227 Part 1,2,3,4,5,6 :2011
736ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kV WIRESLoad Cycle testBS IEC 62067 : 2020, Cl.12, IEC 	735	ELECTRICAL- CABLES & WIRES	Power Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kV	Impulse withstand Test/ Pre Qualification Test	BS IEC 62067 : 2020, Cl.12, 13, IEC 62067 : 2022
737ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVLoad Cycle testBS IEC 62067 : 2022738ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVPre Qualification testBS IEC 62067 : 2022, Cl.12, IEC 62067 : 2022, Cl.12, IEC 62067 : 2022, Cl.12, IEC 62067 : 2022739ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVPre qualification testBS IEC 62067 : 2020, Cl.12, IEC 	736	ELECTRICAL- CABLES & WIRES	Power Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kV	Load Cycle test	BS IEC 62067 : 2020, Cl.12, IEC 62067 : 2022
738ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVPre Qualification testBS IEC 62067 : 2022739ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their 	737	ELECTRICAL- CABLES & WIRES	Power Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kV	Load Cycle test	BS IEC 62067 : 2020, Cl.12, IEC 62067 : 2022
739ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kV wiresPre qualification testBS IEC 62067 : 2022740ELECTRICAL- CABLES & 	738	ELECTRICAL- CABLES & WIRES	Power Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kV	Pre Qualification test	BS IEC 62067 : 2020, Cl.12, IEC 62067 : 2022
740ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVTan delta at ambient and elevated temperatureBS IEC 62067 : 2022Cl.12, IEC 	739	ELECTRICAL- CABLES & WIRES	Power Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kV	Pre qualification test	BS IEC 62067 : 2020, Cl.12, IEC 62067 : 2022
741ELECTRICAL- CABLES & WIRESPower Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kVWater penetration testBS IEC 62067 : 2020, Cl.12, IEC 62067 : 2022742ELECTRICAL- CABLES & WIRESPower cables with extruded insulation and their accessories for rated voltages Above 30 kV up to 150 kVPartial Discharge testBS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 2020, Am1-2023743ELECTRICAL- CABLES & WIRESPower cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kVAcid Gas Emission testCl.18, BS IEC 60502 Part-1 : 2021744ELECTRICAL- CABLES & WIRESPower cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kVConductor Resistance testBS EN 60502 Part-2, Am1-2021, Cl.18, IEC 60502, Part-2 : 2014745ELECTRICAL- CABLES & WIRESPower cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kVConductor resistance testBS IEC 60502 Part-1 : 2019, Cl.16, IEC 60502, Part-1 : 2019, Cl.16, IEC 60502, Part-1 : 2019,	740	ELECTRICAL- CABLES & WIRES	Power Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kV	Tan delta at ambient and elevated temperature	BS IEC 62067 : 2020, Cl.12, IEC 62067 : 2022
742ELECTRICAL- CABLES & WIRESPower cables with extruded insulation and their accessories for rated voltages Above 30 kV up to 150 kVPartial Discharge testBS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 	741	ELECTRICAL- CABLES & WIRES	Power Cables with Extruded insulation and their accessories for rated voltages above 150 kV up to 500 kV	Water penetration test	BS IEC 62067 : 2020, Cl.12, IEC 62067 : 2022
743ELECTRICAL- CABLES & WIRESPower cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kVAcid Gas Emission testCl.18, BS IEC 60502 Part-1:2019, Cl.18, IEC 60502, Part-1: 2021744ELECTRICAL- CABLES & WIRESPower cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kVConductor Resistance testBS EN 60502 Part-2, Am1-2021, Cl.18, IEC 60502, Part-2: 2014745ELECTRICAL- CABLES & WIRESPower cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kVConductor resistance testBS IEC 60502 Part-1: 2019, Cl.16, IEC 60502, Part-1: 2021	742	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories for rated voltages Above 30 kV up to 150 kV	Partial Discharge test	BS EN IEC 60840 : 2019, Am1-2021, Cl.12, IEC 60840 : 2020, Am1-2023
744ELECTRICAL- CABLES & WIRESPower cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kVConductor Resistance testBS EN 60502 Part-2, Am1-2021, Cl.18, IEC 60502, Part-2 : 2014745ELECTRICAL- CABLES & WIRESPower cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kVConductor resistance testBS IEC 60502 Part-1 : 2019, Cl.16, IEC 60502, Part-1 : 2019, Cl.16, IEC 60502, Part-1 : 2021	743	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kV	Acid Gas Emission test	Cl.18, BS IEC 60502 Part-1:2019, Cl.18, IEC 60502, Part-1 : 2021
745ELECTRICAL- CABLES & WIRESPower cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kVConductor resistance testBS IEC 60502 Part-1 : 2019, Cl.16, IEC 60502, Part-1 : 2021	744	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kV	Conductor Resistance test	BS EN 60502 Part-2, Am1-2021, Cl.18, IEC 60502, Part-2 : 2014
	745	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kV	Conductor resistance test	BS IEC 60502 Part-1 : 2019, Cl.16, IEC 60502, Part-1 : 2021



SCOPE OF ACCREDITATION

Laboratory Name :	CENTRAL POWER RESEARCH INSTITU BENGALURU, KARNATAKA, INDIA	JTE, PROF SIR C V RAI	MAN ROAD,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5452	Page No	51 of 333
Validity	10/06/2024 to 09/06/2026	Last Amended on	10/10/2024

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
746	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kV	Fluorine Content test	Cl.18, BS IEC 60502 Part-1:2019, Cl.18, IEC 60502, Part-1 : 2021/ BS EN IEC 60684-2:2021, IEC 60684-2
747	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kV	pH and Conductivity test	Cl.18, BS IEC 60502 Part-1:2019, Cl.18, IEC 60502, Part-1 : 2021
748	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories- Cables for rated voltages 1 kV up to 3 kV	Smoke Emission test	Cl.18, BS IEC 60502 Part-1:2019, Cl.18, IEC 60502, Part-1 : 2021
749	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories-Cables for rated voltages 1 kV up to 3 kV	Cold Bend test	BS IEC 60502 Part-1 : 2019, Cl.18, IEC 60502, Part-1 : 2021
750	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories-Cables for rated voltages 1 kV up to 3 kV	Cold Elongation test	BS IEC 60502 Part-1 : 2019, Cl.18, IEC 60502, Part-1 : 2021
751	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories-Cables for rated voltages 1 kV up to 3 kV	Conditioning test	BS IEC 60502 Part-1 : 2019, Cl.18, IEC 60502, Part-1 : 2021
752	ELECTRICAL- CABLES & WIRES	Power cables with extruded insulation and their accessories-Cables for rated voltages 1 kV up to 3 kV	Mechanical test Cold impact test	BS IEC 60502 Part-1 : 2019, Cl.18, IEC 60502, Part-1 : 2021
753	ELECTRICAL- CABLES & WIRES	power cables with rated voltages from 3.6/6 kV up to and including 20.8/36 kV	Power frequency withstand test	VDE -0278-442:2006
754	ELECTRICAL- CABLES & WIRES	power cables with rated voltages from 3.6/6 kV up to and including 20.8/36kV	Mechanical Test: Impact Test	DIN EN 61442 : 2005
755	ELECTRICAL- CABLES & WIRES	PVC Cables Upto and including 1.1kV	Flame Retardant test (Flammability test)	CI.10, IS 694, 2010, RA : 2020
756	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for Electric Supply for working voltages up to and including 1100 Volts	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	Cl.15, IS 1554 part 1, 1988, RA : 2020
757	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 Volts	Thickness and dimension test	Cl.10, IS 694, 2010, RA : 2020
758	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 Volts	Water Immersion Test	BS EN 50363-8 : 2005 / Cl.10, IS 694 : 2010, RA : 2020
759	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Thermal Stability Test for PVC material	Cl.11, IS 694, 2010, RA : 2020
760	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables from 3.3 kV up to and including 11 kV	Capacitance Measurement	Cl.18, IS 1554 part 2, 1988, RA : 2020
761	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables from 3.3 kV up to and including 11 kV	Tan Delta Measurement at ambient and elevated temperature	Cl.18, IS 1554 part 2, 1988, RA : 2020
762	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Impulse withstand Test/ Pre Qualification Test	Cl.18, IS 1554 part 2, 1988, RA : 2020
763	ELECTRICAL- CABLES &	PVC insulated (Heavy Duty) Electric Cables for working	Thermal Stability Test for PVC	Cl.18, IS 1554 part 2, 1988, RA



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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
764	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	Cl.18, IS 1554 part 2, 1988, RA : 2020
765	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Thermal Stability Test for PVC material	Cl.18, IS 1554 part 2, 1988, RA : 2020
766	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Ageing in air oven	Cl.18, IS 1554 part 2, 1988, RA : 2020
767	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Armour Resistivity test	Cl.18, IS 1554 part 2, 1988, RA 2020
768	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Breaking strength test (Elongation at break test)	Cl.18, IS 1554 part 2, 1988, RA 2020
769	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Conductor Resistance test	Cl.18, IS 1554 part 2, 1988, RA : 2020
770	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Dimension of Armour Material	Cl.18, IS 1554 part 2, 1988, RA : 2020
771	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Electrical Heat Cycle test	Cl.18, IS 1554 part 2, 1988, RA : 2020
772	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Flame Retardance test (Sweedish Chimney test)	Cl.18, IS 1554 part 2, 1988, RA : 2020
773	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Flame retardance test on bunch of cables	Cl.18, IS 1554 part 2, 1988, RA : 2020
774	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Flame Retardant test (Flammability test)	Cl.18, IS 1554 part 2, 1988, RA : 2020
775	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Halogen Content test	IS 1554, Part-2, 1988, RA : 2020
776	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Heat Shock test	Cl.18, IS 1554 part 2, 1988, RA : 2020
777	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Hot deformation test	Cl.18, IS 1554 part 2, 1988, RA : 2020
778	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Insulation Resistance test	Cl.18, IS 1554 part 2, 1988, RA : 2020
779	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Load cycle test	Cl.18, IS 1554 part 2, 1988, RA : 2020
780	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Loss of mass test	Cl.18, IS 1554 part 2, 1988, RA : 2020
781	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Loss of mass test	Cl.18, IS 1554 part 2, 1988, RA : 2020
782	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Mechanical test Cold Impact test	Cl.18, IS 1554 part 2, 1988, RA : 2020
783	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Mechanical test Tensile test	Cl.18, IS 1554 part 2, 1988, RA : 2020



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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
784	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Oxygen Index test & Temperature Index test	IS 1554, Part-2, 1988, RA : 2020
785	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Percentage of Armour Coverage	IS 1555 Part 2, 1988, RA : 2020
786	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Percentage of Armour Coverage	IS 1555 Part 2, 1988, RA : 2020
787	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Power Frequency Withstand Test/ Dielectric strength	Cl.18, IS 1554 part 2, 1988, RA : 2020
788	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Power Frequency Withstand Test/ Dielectric strength	Cl.18, IS 1554 part 2, 1988, RA : 2020
789	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Shrinkage test	Cl.18, IS 1554 part 2, 1988, RA : 2020
790	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Smoke Density test	IS 1554 Part 2, 1988, RA : 2020
791	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Thickness and dimension test	Cl.18, IS 1554 part 2, 1988, RA : 2020
792	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3 kV up to and including 11 kV	Water Absorption (Gravimetric)	Cl.18, IS 1554 part 2, 1988, RA : 2020
793	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages from 3.3kV up to and including 11 kV	Partial discharge Test	IS 1554 part 2, 1988, RA : 2020
794	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Thermal Stability Test for PVC material	Cl.15, IS 1554 part 1, 1988, RA : 2020
795	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts From 3.3 kV up to and including 11kV	Insulation Resistance Test/ Volume resistivity/ IR Constant	Table 10, IS 694, 2010, RA : 2020
796	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Thermal Stability Test for PVC material	Cl.15, IS 1554 part 1, 1988, RA : 2020
797	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts From 3.3 kV up to and including 11 kV	Partial discharge Test	BS EN 60885-3 : 2015, IEC 60885-3 : 2015
798	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Armour Resistivity tets	Cl.15, IS 1554 part 1, 1988, RA : 2020
799	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Conductor Resistance test	Cl.15, IS 1554 part 1, 1988, RA : 2020
800	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	DC withstand Test	Cl.15, IS 1554 part1, 1988, RA: 2020
801	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Dimension of armour material	Cl.15, IS 1554 part 1, 1988, RA : 2020
802	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Dimension of Armour Material	IS 10810 pt.36, 2012, RA : 2016



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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
803	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Power Frequency Withstand Test/ Dielectric strength	Cl.15, IS 1554 part 1, 1988, RA : 2020
804	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Power Frequency Withstand Test/ Dielectric strength	Cl.15, IS 1554 part1, 1988, RA : 2020
805	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Thickness and dimension test	Cl.15, IS 1554 part 1, 1988, RA : 2020
806	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Water Immersion test	Cl.15, IS 1554 part 1, 1988, RA : 2020
807	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100 Volts	Water Immersion Test/ Absence of faults in the insulation	Cl.15, IS 1554 part 1, 1988, RA : 2020
808	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100Volts	Breaking Strength test (Elongation at break test)	Cl.15, IS 1554 part 1,1988, RA : 2020
809	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100Volts	Insulation Resistance test	Cl.15, IS 1554 part 1,1988, RA : 2020
810	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100Volts	Mechanical test Tensile strength test	Cl.15, IS 1554 part 1,1988, RA : 2020
811	ELECTRICAL- CABLES & WIRES	PVC insulated (Heavy Duty) Electric Cables for working voltages up to and including 1100Volts	Volume Resistivity test	Cl.15, IS 1554 part 1,1988, RA : 2020
812	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for Electric Supply for working voltages up to and including 1100 Volts	Adhestion test	IS 1554, Part 1, 1988, RA : 2020
813	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for Electric Supply for working voltages up to and including 1100 Volts	Halogen Content test	IS 1554 Part 1, 1988, RA : 2020, IS 10810 Part - 59, 1988, RA
814	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for Electric Supply for working voltages up to and including 1100 Volts	Oxygen Index test and Temperature Index test	IS 10810- Part 58, IS 10810 Part 64- 2003, IS 1554, Part 1, 1988, RA : 2020
815	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for Electric Supply for working voltages up to and including 1100 Volts	Percentage of Armour Coverage	IS 1554 Part 1, 1988, RA : 2020
816	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for Electric Supply for working voltages up to and including 1100 Volts	Percentage of Armour Coverage	IS 1554 Part 1, 1988, RA : 2020
817	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for Electric Supply for working voltages up to and including 1100 Volts	Smoke Density test	IS 1554, Part 1, 1988, RA : 2020
818	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for Electric Supply for working voltages up to and including 1100 Volts	Uniformity of Zinc Coating (Mass of Zinc Coating)	IS 1554, Part 1, 1988, RA : 2020
819	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for Electric Supply for working voltages up to and including 1100 Volts	Winding test	IS 1554 Part 1, 1988, RA : 2020
820	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 volts	DC withstand Test	Cl.10, IS 694, Table 1, RA : 2020
821	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 volts	Additional ageing test	IS 694, 2010, RA : 2020



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822	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 volts	Conductor Resistance test	Cl.10, IS 694, 2010, RA : 2020
823	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 volts	Halogen Content test	IS 694, 2010, RA : 2020
824	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 volts	Oxygen Index test and Temperature Index test	IS 694, 2010, RA : 2020
825	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 volts	Per Sulphate test	IS 694, 2010, RA : 2020
826	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 volts	Power Frequency Withstand Test/ Dielectric strength	Cl.10, IS 694, 2010, RA : 2020
827	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 volts	Power Frequency Withstand Test/ Dielectric strength	Cl.10, IS 694, 2010, RA : 2020
828	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 volts	Smoke Density test	IS 694, 2010, RA : 2020
829	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 Volts	Water Immersion Test/ Absence of faults in the insulation	Cl.10, IS 694, 2010, RA : 2020
830	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100 volts	Wrapping test	IS 694, 2010, RA : 2020
831	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Annealing test	CI.10, IS 694, 2010, RA : 2020
832	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Breaking strength test (Elongation at break test)	CI.10, IS 694, 2010, RA : 2020
833	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Cold Bend test	CI.10, IS 694, 2010, RA : 2020
834	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Cold Bend test	Cl.15, IS 1554 part 1, 1988, RA : 2020
835	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Cold Elongation test	Cl.10, IS 694, 2010, RA : 2020
836	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Cold Elongation test	Cl.15, IS 1554 part 1, 1988, RA : 2020
837	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Mechanical test Cold impact test	Cl.10, IS 694, 2010, RA : 2020
838	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Mechanical test Cold impact test	Cl.15, IS 1554 part 1, 1988, RA : 2020
839	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Mechanical test Tensile strength test	Cl.10, IS 694, 2010, RA : 2020
840	ELECTRICAL- CABLES & WIRES	PVC insulated Cables for working voltages up to and including 1100Volts	Resistivity of Armour	IS 1554 Part 1, 1988, RA : 2020
841	ELECTRICAL- CABLES & WIRES	PVC insulated Cables of rated voltages up to and including 450/750 Volts	Cold bend test	Cl.12, IEC 60227, Part 1 to 6 : 2011





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842	ELECTRICAL- CABLES & WIRES	PVC insulated Cables of rated voltages up to and including 450/750 Volts	Cold Elongation test	Cl.12, IEC 60227, Part 1 to 6 : 2011
843	ELECTRICAL- CABLES & WIRES	PVC insulated Cables of rated voltages up to and including 450/750 Volts	Mechanical test Cold Impact test	Cl.12, IEC 60227, Part 1 to 6 : 2011
844	ELECTRICAL- CABLES & WIRES	PVC Insulated Cables of rated Voltages up to and including 450/750 Volts	Thickness and dimension test	Cl.12, IEC 60227, Part 1 to 6 : 2011
845	ELECTRICAL- CABLES & WIRES	PVC insulated Cables upto and including 1100 Volts	Ageing in air oven	CI.10, IS 694, 2010, RA 2020
846	ELECTRICAL- CABLES & WIRES	PVC insulated Cables upto and including 1100 Volts	Heat shock test	Cl.10, IS 694, 2010, RA : 2020
847	ELECTRICAL- CABLES & WIRES	PVC insulated Cables upto and including 1100 Volts	Hot Deformation test	Cl.10, IS 694, 2010, RA : 2020
848	ELECTRICAL- CABLES & WIRES	PVC insulated Cables upto and including 1100 Volts	Loss of mass test	Cl.10, IS 694, 2010, RA : 2020
849	ELECTRICAL- CABLES & WIRES	PVC insulated Cables upto and including 1100 Volts	Loss of mass test	Cl.10, IS 694, 2010, RA : 2020
850	ELECTRICAL- CABLES & WIRES	PVC insulated Cables upto and including 1100 Volts	Shrinkage test	Cl.10, IS 694, 2010, RA : 2020
851	ELECTRICAL- CABLES & WIRES	PVC insulated Cables upto and including 1100 Volts	Shrinkage test	Cl.10, IS 694, 2010, RA : 2020
852	ELECTRICAL- CABLES & WIRES	PVC insulated Heavy Duty Electric Cables for working voltages up to and including 1100 Volts	Flame Retardance test (Sweedish Chimney test)	Cl.15, IS 1554 part 1, 1988, RA : 2020
853	ELECTRICAL- CABLES & WIRES	PVC insulated Heavy Duty Electric Cables for working voltages up to and including 1100 Volts	Flame retardance tets on bunched cables	Cl.15, IS 1554 part 1, 1988, RA : 2020
854	ELECTRICAL- CABLES & WIRES	PVC insulated Heavy Duty Electric Cables for working voltages up to and including 1100 Volts	Flame Retardant test	Cl.15, IS 1554 part 1, 1988, RA : 2020
855	ELECTRICAL- CABLES & WIRES	PVC insulated Heavy Duty Electric Cables for working voltages up to and including 1100 Volts	Flame retardant test (Flammability test)	Cl.15, IS 1554 part 1, 1988, RA : 2020
856	ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Ageing in air oven	Cl.15, IS 1554 part 1, 1988, RA : 2020
857	ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Heat Shock test	Cl.15, IS 1554 part 1, 1988, RA : 2020
858	ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Hot Deformation test	Cl.15, IS 1554 part 1, 1988, RA : 2020
859	ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Hot set test	Cl.15, IS 1554 part 1, 1988, RA : 2020
860	ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Loss of mass test	Cl.15, IS 1554 part 1, 1988, RA : 2020
861	ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Loss of mass test	Cl.15, IS 1554 part 1, 1988, RA : 2020



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ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Pressure test at high temperature	Cl.15, IS 1554 part 1, 1988, RA : 2020
ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Shrinkage test	Cl.15, IS 1554 part 1, 1988, RA : 2020
ELECTRICAL- CABLES & WIRES	PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts	Shrinkage test	Cl.15, IS 1554 part 1, 1988, RA : 2020
ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltage Up to and including 450/750 Volts	Conductor Resistance test	IEC 60245, Part 1 to 7 : 2011
ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltage Up to and including 450/750 Volts	Power Frequency Withstand Test/ Dielectric strength	IEC 60245, part 1 to 5 : 2011
ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltage Up to and including 450/750 Volts	Power Frequency Withstand Test/ Dielectric strength	IEC 60245, part 1 to 5 : 2011
ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltage Up to and including 450/750 Volts	Resistivity of Armour	IEC 60245, part 1 to 5 : 2011
ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltages up to and including 450/750 Volts	Annealing test	IEC 60245, Part 1 to 7 : 2011
ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltages up to and including 450/750 Volts	Breaking strength test (Elongation at break test)	IEC 60245, Part 1 t o 7 : 2011
ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltages up to and including 450/750 Volts	Insulation Resistance test	IEC 60245, Part 1 to 7 : 2011
ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltages up to and including 450/750 Volts	Mechanical test tensile strength test	IEC 60245, Part-1 to 7: 2011
ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltages up to and including 450/750 Volts	Tear Resistance test	IEC 60245, Part-1 to 7: 2011
ELECTRICAL- CABLES & WIRES	Rubber Insulated Cables of rated voltages Up to and including 450/750 Volts	Thickness and dimension test	IEC 60245 part 1 to 7: 2011
ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Ageing in air bomb	IEC 60245, Part 1 to 7: 2011
ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Ageing in air oven	IEC 60245, Part 1 to 7: 2011
ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Carbon Black content test	IEC 60245, Part 1 to 7: 2011
ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Cold Bend test	IEC 60245, Part 1 to 7: 2011
ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Cold Elongation test	IEC 60245, part 1 to 7: 2011
ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Conditioning test	IEC 60245 Part 1 to 7: 2011
ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Heat Shock test	IEC 60245, Part 1 to 7: 2011
	Discipline / Group ELECTRICAL- CABLES & WIRES ELECTRICAL	Discipline / Group Materials or Products tested ELECTRICAL- CABLES & WIRES PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts ELECTRICAL- CABLES & WIRES PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts ELECTRICAL- CABLES & WIRES PVC insulated(Heavy Duty) Electric cables for working voltages up to and including 1100 Volts ELECTRICAL- CABLES & WIRES Rubber Insulated Cables of rated voltage Up to and including 450/750 Volts ELECTRICAL- CABLES & WIRES Rubber Insulated Cables of rated voltage Up to and including 450/750 Volts ELECTRICAL- CABLES & WIRES Rubber Insulated Cables of rated voltage Up to and including 450/750 Volts ELECTRICAL- CABLES & WIRES Rubber Insulated Cables of rated voltages up to and including 450/750 Volts ELECTRICAL- CABLES & WIRES Rubber Insulated Cables of rated voltages up to and including 450/750 Volts ELECTRICAL- CABLES & WIRES Rubber Insulated Cables of rated voltages up to and including 450/750 Volts ELECTRICAL- CABLES & WIRES Rubber Insulated Cables of rated voltages up to and including 450/750 Volts ELECTRICAL- CABLES & WIRES Rubber Insulated Cables of rated voltages up to and including 450/750 Volts ELECTRICAL- CABLES & WIRES Rubber Insulated Cables of rated voltages up to and including 450/750 Volts <td< td=""><td>Discipline / Group Materials or Products tested Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed / Tests or type of tests performed / Vicages up to and including 1100 Volts ELECTRICAL- CABLES & PVC insulated(Heavy Duty) Electric cables for working withes Pressure test at high temperature ELECTRICAL- CABLES & PVC insulated(Heavy Duty) Electric cables for working withes Shrinkage test ELECTRICAL- CABLES & PVC insulated(Heavy Duty) Electric cables for working withes Shrinkage test ELECTRICAL- CABLES & PVC insulated(Heavy Duty) Electric cables for working withes Shrinkage test ELECTRICAL- CABLES & PVC insulated (Lables of rated voltage Up to and including 450/750 Volts Conductor Resistance test ELECTRICAL- CABLES & Rubber insulated cables of rated voltage Up to and including 450/750 Volts Power Frequency Withstand Test/ Dielectric strength ELECTRICAL- CABLES & Rubber insulated Cables of rated voltages up to and including 450/750 Volts Power Frequency Withstand Test/ Dielectric strength ELECTRICAL- CABLES & Rubber insulated Cables of rated voltages up to and including 450/750 Volts Resistivity of Armour ELECTRICAL- CABLES & Rubber insulated Cables of rated voltages up to and including 450/750 Volts Insulation Resistance test ELECTRICAL- CABLES &</td></td<>	Discipline / Group Materials or Products tested Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed / Tests or type of tests performed / Vicages up to and including 1100 Volts ELECTRICAL- CABLES & PVC insulated(Heavy Duty) Electric cables for working withes Pressure test at high temperature ELECTRICAL- CABLES & PVC insulated(Heavy Duty) Electric cables for working withes Shrinkage test ELECTRICAL- CABLES & PVC insulated(Heavy Duty) Electric cables for working withes Shrinkage test ELECTRICAL- CABLES & PVC insulated(Heavy Duty) Electric cables for working withes Shrinkage test ELECTRICAL- CABLES & PVC insulated (Lables of rated voltage Up to and including 450/750 Volts Conductor Resistance test ELECTRICAL- CABLES & Rubber insulated cables of rated voltage Up to and including 450/750 Volts Power Frequency Withstand Test/ Dielectric strength ELECTRICAL- CABLES & Rubber insulated Cables of rated voltages up to and including 450/750 Volts Power Frequency Withstand Test/ Dielectric strength ELECTRICAL- CABLES & Rubber insulated Cables of rated voltages up to and including 450/750 Volts Resistivity of Armour ELECTRICAL- CABLES & Rubber insulated Cables of rated voltages up to and including 450/750 Volts Insulation Resistance test ELECTRICAL- CABLES &



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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
882	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Hot Deformation test	IEC 60245, Part 1 to 7: 2011
883	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Hot set test	IEC 60245, Part 1 to 7: 2011
884	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Hot set test	IEC 60245, Part 1 to 7: 2011
885	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Loss of mass test	IEC 60245, Part 1 to 7: 2011
886	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Loss of mass test	IEC 60245, Part 1 to 7: 2011
887	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Mechanical test Cold Impact test	IEC 60245, Part 1 to 7: 2011
888	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Mineral Oil Immersion test	IEC 60245, Part 1 to 7: 2011
889	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Pressure test at high temperature	IEC 60245, Part 1 to 7: 2011
890	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Shrinkage test	IEC 60245, Part 1 to 7 : 2011
891	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Shrinkage test	IEC 60245, Part 1 to 7 : 2011
892	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Shrinkage test	IEC 60245, Part 1 to 7: 2011
893	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Shrinkage test	IEC 60245, Part 1 to 7: 2011
894	ELECTRICAL- CABLES & WIRES	Rubber insulated Cables of rated voltages upto and including 450/ 750 Volts	Test for Resistance to cracking	IEC 60245, Part 1 to 7 : 2011
895	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Capacitance Measurement	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020
896	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Capacitance Measurement	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020
897	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Conductor Resistance Test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
898	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Impulse withstand test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
899	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Partial Discharge test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
900	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Power Frequency Withstand Test/ Dielectric strength	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020



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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
901	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Power Frequency Withstand Test/ Dielectric strength	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
902	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Tan delta Measurement	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
903	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Ageing in air oven	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
904	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Breaking strength test (Elongation at break test)	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
905	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Cold Elongation test	IEC 60092-350 : 2020
906	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Cold Impact test	IEC 60092-350 : 2020
907	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Cold Impact test	IEC 60092-350 : 2020
908	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Electrical Heat cycle test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
909	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Flame Retaradant test	IEC 60092-350 : 2020
910	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Halogen Acid test	IEC 60092-350 : 2020
911	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Heat Shock test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
912	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Hot deformation test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
913	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Hot set test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
914	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Hot set test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
915	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Load cycle test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
916	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Loss of mass test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020



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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
917	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Loss of mass test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
918	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Mechanical test Tensile strength test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
919	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Mineral Oil Immersion test	IEC 60092-350 : 2020
920	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Pressure test at high temperature	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
921	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Shrinkage test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
922	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Shrinkage test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
923	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Tear Resistance test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
924	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Test for resistance to cracking	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
925	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Water penetration test	BS IEC 60092-350 : 2019, IEC 60092-350 : 2020, IEC 60092-350 : 2020
926	ELECTRICAL- CABLES & WIRES	Ship Board Power Cables	Zero Halogen test/pH & Conductivity test	IEC 60092-350 : 2020
927	ELECTRICAL- CABLES & WIRES	Single core PVC insulated flexible cables of rated voltage 600/1000 V for switch gear and control gear wiring	Power Frequency Withstand Test/ Dielectric strength	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-11:2011 / Cl.11, BS 6231 : 2006
928	ELECTRICAL- CABLES & WIRES	Single core PVC insulated flexible cables of rated voltage 600/1000 V for switch gear and control gear wiring	Power Frequency Withstand Test/ Dielectric strength	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.11, BS 6231 : 2006



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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
929	ELECTRICAL- CABLES & WIRES	Single core PVC insulated flexible cables of rated voltage 600/1000 V for switch gear and control gear wiring	Conductor resistance test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.11, BS 6231 : 2006
930	ELECTRICAL- CABLES & WIRES	Solid electrical insulating materials	Fire retardant/ Flammability	IS 11731 pt. 1& 2, 1986, RA : 2021
931	ELECTRICAL- CABLES & WIRES	Surge arrestors for alternating Current Systems	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	IS 15086 part 1, 2001, RA : 2011
932	ELECTRICAL- CABLES & WIRES	Surge Arrestors-Metal Oxide Surge Arrestors with out gaps for ac systems	Partial discharge Test	Cl.6.4, IEC 60099-4 : 2014
933	ELECTRICAL- CABLES & WIRES	Surge Arrestors-Metal Oxide Surge Arrestors with out gaps for ac systems	Partial discharge Test	IS 3070-part 3 : 1993
934	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Ageing air bomb	Cl. 14, BS 5467 : 2016
935	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Ageing in air oven	Cl. 14, BS 5467 : 2016
936	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Breaking strength test (Elongation at break test)	CI.14, BS 5467 : 2016
937	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Conductor Resistance Test/ Armour resistivity Test	CI.14, BS 5467 : 2016
938	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V $\&$ 1900/3300 V for fixed installation	Dimension of Armour Material	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.14, BS 5467 : 2016
939	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of $600/1000 V \& 1900/3300 V$ for fixed installation	Fire Retardant/ Flammability Test	Cl.14, BS 5467 : 2016
940	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of $600/1000 \text{ V} \& 1900/3300 \text{ V}$ for fixed installation	Hot set test	Cl.14, BS 5467 : 2016
941	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of $600/1000 V \& 1900/3300 V$ for fixed installation	Hot set test	Cl.14, BS 5467 : 2016
942	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of $600/1000 V \& 1900/3300 V$ for fixed installation	Mechanical test Tensile Strength test	Cl.14, BS 5467 : 2016
943	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V $\&$ 1900/3300 V for fixed installation	Power Frequency withstand test	Cl.14, BS 5467 : 2016



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944	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of $600/1000 \text{ V} \& 1900/3300 \text{ V}$ for fixed installation	Power Frequency Withstand Test/ Dielectric strength	Cl.14, BS 5467 : 2016	
945	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of $600/1000 \text{ V} \& 1900/3300 \text{ V}$ for fixed installation	Pressure test at high temperature	Cl.14, BS 5467 : 2016	
946	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of $600/1000 \text{ V} \& 1900/3300 \text{ V}$ for fixed installation	Shrinkage test	Cl.14, BS 5467 : 2016	
947	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Shrinkage test	Cl.14, BS 5467 : 2016	
948	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Tear Resistance test	Cl.14, BS 5467 : 2016	
949	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Thickness and dimension test	Cl.14, BS 5467 : 2016	
950	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Water Absorption (Gravimetric)	Cl.14, BS 5467 : 2016	
951	ELECTRICAL- CABLES & WIRES	Thermosetting insulated , armoured Cables of rated voltages of 600/1000 V & 1900/3300 V for fixed installation	Water immersion test	Cl.14, BS 5467 : 2016	
952	ELECTRICAL- CABLES & WIRES	Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases HFFR cables for working voltages upto and including 1100 Volts	Oxygen Index Test, Temperature Index Test	Table 9, (iv)j&K, IS 17505(part I)- 2021 / Table 2 Cl. III c(iv), Cl.IIIe(iii) of IS 17048 : 2018, Am1-2021	
953	ELECTRICAL- CABLES & WIRES	Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases ,PVC insulated Cables for Electric Supply for working voltages up to and including 1100 Volts	Torsion test	IS 17505(Part)I-2021 / IS 1554, Part 1, 1988, RA : 2020	
954	ELECTRICAL- CABLES & WIRES	Thermosetting Insulated fire survival Cables having low emission of smoke and corrosive gases, HFFR cables for working voltages upto and including 1100 Volts	Hot Deformation Test	Table 2, IS 17505(Part-I)- 2021 / Table 2 Cl. Illc(vii), Cl.e(vi) of IS 17048 : 2018, Am1-2021	
955	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Ageing in air bomb	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.14, BS 7846 : 2015	
956	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Ageing in air oven	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.14, BS 7846 : 2015	



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957	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Hot set test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.14, BS 7846 : 2015
958	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Hot set test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.14, BS 7846 : 2015
959	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Pressure test at high temperature	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.14, BS 7846 : 2015
960	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Shrinkage test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.14, BS 7846 : 2015
961	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Shrinkage test	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.14, BS 7846 : 2015
962	ELECTRICAL- CABLES & WIRES	Thermosetting insulated, armoured fire resistant 600/1000 V Cable having low emission of smoke and corrosive gases	Water immersion test	Cl.14, BS 7846 : 2015
963	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV up to and including 33 kV $% \left({{\rm S}_{\rm A}} \right)$	Conductor Resistance test	IS 13705, 1993, RA : 2019
964	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV up to and including 33 kV	DC withstand Test	IS 13705, 1993, RA: 2019



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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
965	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV up to and including 33 kV for joints for 600/1000volts CNE Cable Systems	Mechanical Test: Impact Test	IS 13705, 1993, RA: 2019
966	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV up to and including 33 kV Type tests for joints for 600/1000volts CNE Cable Systems	Mechanical Test: Impact Test	IS 13705, 1993, RA: 2019
967	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV up to and including 33kV	Power Frequency Withstand Test/ Dielectric strength	IS 13705, 1993, RA: 2019
968	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV up to and including 33kV	Power Frequency Withstand Test/ Dielectric strength	IS 13705, 1993, RA: 2019
969	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV upto and including 33 kV	Capacitance Measurement	IS 13705, 1993, RA : 2019
970	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV upto and including 33 kV	Electrical Heat cycle Test /Load Cycle Test/ Water penetration Test/ Pre Qualifciation Test	IS 13705, 1993, RA: 2019
971	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV upto and including 33 kV	Electrical Heat cycle Test /Load Cycle Test/ Water penetration Test/ Pre Qualifciation Test	IS 13705, 1993, RA: 2019
972	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV upto and including 33 kV	Partial discharge Test	IS 13705, 1993, RA : 2019
973	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV upto and including 33kV	Insulation Resistance Test/ Volume resistivity/ IR Constant	IS 13705, 1993, RA : 2019
974	ELECTRICAL- CABLES & WIRES	Transition Joints of Power Cables from 11 kV upto and including 33kV	Tan Delta Measurement at ambient and elevated temperature	IS 13705, 1993, RA : 2019
975	ELECTRICAL- CABLES & WIRES	Uniformity & Mass of Zinc Coating on steel armour	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	IS 10810 part 40-41, 1984, RA : 2016
976	ELECTRICAL- CABLES & WIRES	Unsaturated polyester Resin systems	Fire Retardant/ Flammability Test	IS 6746- APPENDIX-N, 1994, RA : 2021
977	ELECTRICAL- CABLES & WIRES	XLPE Insulated Cables for working voltages from 66 kV up to and including 220 kV	Ageing in air oven	Cl.19, IS 7098 part 3 , 1993, RA : 2019
978	ELECTRICAL- CABLES & WIRES	XLPE Insulated Cables for working voltages from 66.kV up to and including 220 kV	Ageing in air bomb	Cl.19, IS 7098 part 3 , 1993, RA : 2019
979	ELECTRICAL- CABLES & WIRES	XLPE Insulated Cables for working voltages from 66.kV up to and including 220 kV	Carbon Black content test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
980	ELECTRICAL- CABLES & WIRES	XLPE Insulated Cables for working voltages from 66.kV up to and including 220 kV	Heat Shock test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
981	ELECTRICAL- CABLES & WIRES	XLPE Insulated Cables for working voltages from 66.kV up to and including 220 kV	Hot Deformation test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
982	ELECTRICAL- CABLES & WIRES	XLPE Insulated Cables for working voltages from 66.kV up to and including 220 kV	Hot set test	Cl.19, IS 7098 part 3 , 1993, RA : 2019



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983	ELECTRICAL- CABLES & WIRES	XLPE Insulated Cables for working voltages from 66.kV up to and including 220 kV	Hot set test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
984	ELECTRICAL- CABLES & WIRES	XLPE Insulated Cables for working voltages from 66.kV up to and including 220 kV	Loss of mass test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
985	ELECTRICAL- CABLES & WIRES	XLPE Insulated Cables for working voltages from 66.kV up to and including 220 kV	Loss of mass test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
986	ELECTRICAL- CABLES & WIRES	XLPE Insulated Cables for working voltages from 66.kV up to and including 220 kV	Pressure test at high temperature	Cl.19, IS 7098 part 3 , 1993, RA : 2019
987	ELECTRICAL- CABLES & WIRES	XLPE Insulated Cables for working voltages from 66.kV up to and including 220 kV	Shrinkage test	Cl.19, IS 7098 Pt. III :1993, RA : 2019
988	ELECTRICAL- CABLES & WIRES	XLPE Insulated Cables for working voltages from 66.kV up to and including 220 kV	Shrinkage test	Cl.19, IS 7098 Pt. III :1993, RA : 2019
989	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For voltages up to and including 1.1 kV	Thermal Stability Test for PVC material	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-3-31:2011 / BS EN 50525-2-51:2011 / BS EN 50525-2-11:2011 / Cl.15, IS 7098 part 1 : 1988, RA : 2020
990	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For voltages up to and including $1.1 \mbox{kV}$	Water Absorption (Gravimetric)	Cl.15, IS 7098 part 1, 1988, RA : 2020
991	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For voltages up to and including 1.1 kV	Thermal Stability Test for PVC material	BS EN 50525-1:2011 / BS EN 50525-3-41:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-83:2011 / BS EN 50525-2-31:2011 / BS EN 50525-2-11:2011 / Cl.15, IS 7098 part 1 : 1988, RA : 2020
992	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Ageing in air oven	Cl.15, IS 7098 part 1, 1988, RA : 2020
993	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Breaking strength test (Elongation at break test)	Cl.15, IS 7098 part 1, 1988, RA : 2020
994	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Flame Retardancy test (Sweedish Chimney test)	Cl.15, IS 7098 part 1, 1988, RA : 2020
995	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Flame Retardancy test on Bunched Cables	Cl.15, IS 7098 part 1, 1988, RA : 2020
996	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Flame Retardant test (Flammability test)	Cl.15, IS 7098 part 1, 1988, RA : 2020
997	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 $\rm kV$	Halogen Content test	IS 7098, Part 1, 1988, RA : 2020
998	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Heat shock test	Cl.15, IS 7098 part 1, 1988, RA : 2020



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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
999	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	High Voltage test	IS 7098, Part 1, 1988, RA : 2020
1000	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Hot deformation test	Cl.15, IS 7098 part 1, 1988, RA : 2020
1001	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Hot set test	Cl.15, IS 7098 part 1, 1988, RA : 2020
1002	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Insulation Resistance test	Cl.15, IS 7098 part 1, 1988, RA : 2020
1003	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV $$	IR Constant test	Cl.15, IS 7098 part 1, 1988, RA : 2020
1004	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV $$	Loss of mass test	Cl.15, IS 7098 part 1, 1988, RA : 2020
1005	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV $$	Loss of mass test	Cl.15, IS 7098 part 1, 1988, RA : 2020
1006	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Mechanical test Tensile strength test	Cl.15, IS 7098 part 1, 1988, RA : 2020
1007	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV	Oxygen Index test and Temperature Index test	IS 7098 Part 1, 1988, RA : 2020
1008	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV $$	Percentage of Armour Coverage	IS 7098, Part 1, 1988, RA : 2020
1009	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV $$	Percentage of Armour Coverage	IS 7098, Part 1, 1988, RA : 2020
1010	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV $$	Shrinkage test	Cl.15, IS 7098 part 1, 1988, RA : 2020
1011	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV $$	Shrinkage test	Cl.15, IS 7098 part 1, 1988, RA : 2020
1012	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV $$	Smoke Density test	IS 7098, Part 1, 1988, RA : 2020
1013	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV $$	Thermal Stability test	IS 7098, Part 1, 1988, RA : 2020
1014	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV $$	Thermal Stability test	IS 7098, Part 1, 1988, RA : 2020
1015	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV $$	Thickness and dimension test	Cl.15, IS 7098 part 1, 1988, RA : 2020
1016	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV $$	Thickness and dimension test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
1017	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1 kV $$	Volume Resistivity test	Cl.15, IS 7098 part 1, 1988, RA : 2020
1018	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For voltages up to and including $1.1 \mbox{kV}$	Armour Resistivity test	Cl.15, IS 7098 part 1, 1988, RA : 2020



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1019	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For voltages up to and including 1.1kV	Conductor Resistance test	Cl.15, IS 7098 part 1, 1988, RA : 2020
1020	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1kV	Dimension of Armour Material	Cl.15, IS 7098 part 1, 1988, RA : 2020
1021	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for voltages up to and including 1.1kV	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	Cl.15, IS 7098 pt. 1 1988, RA :2020
1022	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For voltages up to and including 1.1kV	Mechanical test Cold Impact test	Cl.15, IS 7098 part 1, 1988, RA : 2020
1023	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Partial discharge Test	Cl.19, IS 7098 (part 2) 2011, RA : 2021
1024	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Electrical Heat cycle test	Cl.19, IS 7098 part 2, 2011, RA 2021
1025	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Impulse withstand Test	Cl.19, IS 7098 part 2, 2011, RA 2021
1026	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Water Penetration test	IS 7098 part 2, 2011, RA 2021
1027	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables For working voltages from 3.3 kV up to and including 33KV	Capacitance Measurement	Cl.19, IS 7098 part 2, 2011, RA : 2021
1028	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for working voltages up to 1.1 kV $$	Power Frequency Withstand Test/ Dielectric strength	Cl.15, IS 7098 Part I- 1988, RA : 2020
1029	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables for working voltages up to 1.1 kV	Power Frequency Withstand Test/ Dielectric strength	Cl.15, IS 7098 Part I- 1988, RA : 2020
1030	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables fr voltages up to and including 1.1 kV $$	Torsion test	Cl.15, IS 7098 part 1 - 1988, RA : 2020
1031	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables fr voltages up to and including 1.1 kV	Winding test	Cl.15, IS 7098 part 1, 1988, RA : 2020
1032	ELECTRICAL- CABLES & WIRES	XLPE Insulated PVC sheathed Cables fr voltages up to and including 1.1 kV $$	Wrapping test	Cl.15, IS 7098 part 1, 1988, RA : 2020
1033	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Capacitance Measurement	Cl.19, IS 7098 Part II , 2011, RA : 2021
1034	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Capacitance Measurement	Cl.19, IS 7098 Part II , 2011, RA : 2021
1035	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Galvanising test (Uniformity of Zinc coating & Mass of Zinc coating)	Cl. 19, IS 7098 part 2, 2011, RA : 2021
1036	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Power Frequency Withstand Test/ Dielectric strength	Cl.19, IS 7098 part 2, 2011, RA : 2021
1037	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Power Frequency Withstand Test/ Dielectric strength	Cl.19, IS 7098 part 2, 2011, RA : 2021



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1038	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Tan delta at ambient and elevated temperature	Cl.19, IS 7098 Part II , 2011, RA : 2021
1039	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Thickness and dimension test	Cl.19, IS 7098 part 2 2011, RA : 2021
1040	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Water Absorption (Gravimetric)	Cl.19, IS 7098 part 2, 2011, RA : 2021
1041	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Conductor Resistance Test/ Armour resistivity Test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1042	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables For working voltages from 66.kV up to and including 220 kV	Thermal Stability Test for PVC material	IS 7098 PART 3, 1993, RA : 2019
1043	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables For working voltages above 33.kV up to and including 220 kV	Fire Retardant/ Flammability Test	Cl.19, IS 7098 part.3, 1993, RA : 2019
1044	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Ageing in air oven	Cl.19, IS 7098 part 2, 2011, RA : 2021
1045	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Annealing test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1046	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	bending test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1047	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Breaking Strength test (Elongation at break)	Cl.19, IS 7098 part 2, 2011, RA : 2021
1048	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Carbon Black content test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1049	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Flame Retardancy test (Sweedish Chimney test)	Cl.19, IS 7098 part 2, 2011,RA : 2021
1050	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Flame Retardant test (Flammability test)	Cl.19, IS 7098 part 2, 2011, RA : 2021
1051	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Flame retardant test on Bunched Cables	Cl.19, IS 7098 part 2, 2011, RA : 2021
1052	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Heat Shock test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1053	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Hot Deformation test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1054	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Hot set test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1055	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Hot set test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1056	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Insulation Resistance test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1057	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Loss of mass test	Cl.19, IS 7098 part 2, 2011, RA : 2021



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1058	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Loss of mass test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1059	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Mechanical test Cold impact test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1060	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Mechanical test Tensile strength test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1061	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Resistivity of semiconducting Screen test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1062	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Shrinkage test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1063	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Strippability test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1064	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Torsion test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1065	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Volume resistivity test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1066	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Winding test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1067	ELECTRICAL- CABLES & WIRES	XLPE Insulated Thermoplastic sheathed Cables For working voltages from 3.3 kV up to and including 33 kV	Wrapping test	Cl.19, IS 7098 part 2, 2011, RA : 2021
1068	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables for working voltages from 66.kV up to and including 220 kV	Bending test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
1069	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables for working voltages from 66.kV up to and including 220 kV	Capacitance Measurement	Cl.19, IS 7098 part 3 , 1993, RA : 2019
1070	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables for working voltages from 66.kV up to and including 220 kV	Conductor Resistance test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
1071	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables for working voltages from 66.kV up to and including 220 kV	Dimension of Armour Material	Cl.19, IS 7098 part 3 , 1993, RA : 2019
1072	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables for working voltages from 66.kV up to and including 220 kV	Electrical Heat Cycle test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
1073	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables for working voltages from 66.kV up to and including 220 kV	Electrical heat cycle test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
1074	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables for working voltages from 66.kV up to and including 220 kV	Mechanical test Cold Impact test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
1075	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables for working voltages from 66.kV up to and including 220 kV	Partial Discharge test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
1076	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables for working voltages from 66.kV up to and including 220 kV	Power Frequency Withstand Test/ Dielectric strength	Cl.19, IS 7098 part 3 , 1993, RA : 2019
1077	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables for working voltages from 66.kV up to and including 220 kV	Power Frequency Withstand Test/ Dielectric strength	Cl.19, IS 7098 part 3 , 1993, RA : 2019



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1078	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables for working voltages from 66.kV up to and including 220 kV	Resistivity of Armour test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
1079	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables for working voltages from 66.kV up to and including 220 kV	Tan Delta Measurement at ambient and elevated temperature	Cl.19, IS 7098 part 3 , 1993, RA : 2019
1080	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables for working voltages from 66.kV up to and including 220 kV	Torsion test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
1081	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables for working voltages from 66.kV up to and including 220 kV	Water Penetration test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
1082	ELECTRICAL- CABLES & WIRES	XLPE Insulated thermoplastic sheathed Cables fr working voltages from 66.kV up to and including 220 kV	Impulse withstand Test	Cl.19, IS 7098 part 3 , 1993, RA : 2019
1083	ELECTRICAL- CAPACITORS	AC Motor capacitors	Capacitance Measurement	Cl. 2.9 of IS 2993:1998 IEC 60252:1993 / Cl. 5.9 of IEC 60252-1:2010+AMD1:2013 / Cl. 5.1.9 of IEC 60252-2:2010+AMD1:2013 / IS 2993:1998 IEC 60252:1993 / IEC 60252-1:2010+AMD1:2013 / IEC 60252-2:2010+AMD1
1084	ELECTRICAL- CAPACITORS	AC Motor capacitors	Check of dimensions	Cl. 2.10 of IS 2993:1998 IEC 60252:1993 / Cl. 5.10 of IEC 60252-1:2010+AMD1:2013 / Cl. 5.1.10 of IEC 60252-2:2010+AMD1:2013 / IS 2993:1998 IEC 60252:1993 / IEC 60252-1:2010+AMD1:2013 / IEC 60252-2:2010+AMD1
1085	ELECTRICAL- CAPACITORS	AC Motor capacitors	Damp Heat test	Cl. 2.14 of IS 2993:1998 IEC 60252:1993 / Cl. 5.14 of IEC 60252-1:2010+AMD1:2013 / Cl. 5.1.14 of IEC 60252-2:2010+AMD1:2013 / IS 2993:1998 IEC 60252:1993 / IEC 60252-1:2010+AMD1:2013 / IEC 60252-2:2010+AMD1
1086	ELECTRICAL- CAPACITORS	AC Motor capacitors	Dielectric strength or Voltage test between terminals	Cl. 2.7 of IS 2993:1998 IEC 60252:1993 / Cl. 5.7 of IEC 60252-1:2010+AMD1:2013 / Cl. 5.1.7 of IEC 60252-2:2010+AMD1:2013 / IS 2993:1998 IEC 60252:1993 / IEC 60252-1:2010+AMD1:2013 / IEC 60252-2:2010+AMD1



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1087	ELECTRICAL- CAPACITORS	AC Motor Capacitors	Mechanical tests	IS 2993:1998 IEC 60252-1993 / Cl. 2.11 of IS 2993 1998 / Cl. 5.11 Of IEC 60252-1 2010+AMD1:2013 / Cl. 6.1.10 and Cl. 5.1.11 of IEC 60252-2 2010+AMD1		
1088	ELECTRICAL- CAPACITORS	AC Motor capacitors	Mechanical tests-Robustness of termination and flexibility test- Tensile, Bending, Torsion, Torque	IS 2993:1998 IEC 60252 - 1993 / Cl.2.11 of IS 2993-1998, Cl.5.1 of IEC 60252-1:2010+AMD1 / IEC 60252-2:2010+AMD1		
1089	ELECTRICAL- CAPACITORS	AC Motor capacitors	Pressure relief test	IS 2993-1998 IEC 60252-1993 / I. 6.1.14 of IEC 60252-2 2010+AMD1		
1090	ELECTRICAL- CAPACITORS	AC motor capacitors	Pressure relief test	IS 2993-1998 / Cl. 6.1.14 of IEC 60252-2 2010 AMD 1:2013		
1091	ELECTRICAL- CAPACITORS	AC motor capacitors	Resistance to heat fire and tracking	IS 2993-1998 IEC 60252-1 2010 AMD 1-2013 / IEC 60252-2 2010 AMD 1		
1092	ELECTRICAL- CAPACITORS	AC Motor capacitors	Robustness of termination - Soldering test	IS 2993:1998 IEC 60252:1993 / Cl.2.11 of IS 2993 1998/ Cl.5.11 of IEC 60252-1:2010+AMD1:2013 / Cl.5.1.11 of IEC 60252-2:2010+AMD1		
1093	ELECTRICAL- CAPACITORS	AC Motor capacitors	Sealing Test	IS 2993:1998 IEC 60252:1993 / Cl.2.12 of IS 2993 1998 / Cl.5.12 of , IEC 60252-1:2010+AMD1:2013 / Cl.5.1.12 of IEC 60252-2:2010+AMD1		
1094	ELECTRICAL- CAPACITORS	AC Motor capacitors	Self Healing Test	IS 2993:1998 IEC 60252:1993 / Cl.2.15 of IS 2993: 1998 / Cl.5.15 of IEC 60252-1:2010+AMD1		
1095	ELECTRICAL- CAPACITORS	AC Motor capacitors	Tan delta Measurement	IS 2993:1998 IEC 60252:1993/ Cl.2.5 of IS 2993: 1998 / Cl.5.5 of IEC 60252-1:2010+AMD1:2013 / Cl.5.1.5 of IEC 60252-2:2010+AMD1		
1096	ELECTRICAL- CAPACITORS	AC Motor capacitors	Voltage test between terminals and container/case	IS 2993:1998 IEC 60252:1993 / Cl.2.8 of IS 2993: 1998 / Cl.5.8 of IEC 60252-1:2010+AMD1:2013 / Cl.5.1.8 of IEC 60252-2:2010+AMD1		



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1097	ELECTRICAL- CAPACITORS	AC Motor capacitors or Fan capacitors	Destruction test	IS 2993:1998 IEC 60252:1993 / Cl.2.16 of IS 2993-1998 / Cl.5.16 of IEC 60252-1:2010+AMD1:2013 / Cl.5.1.16 of IEC 60252-2:2010+AMD1
1098	ELECTRICAL- CAPACITORS	APFC panel for voltage upto and including 1000 V	Insulation Resistance Test	Cl. 5.5 of IS 16636:2017
1099	ELECTRICAL- CAPACITORS	APFC Panel for voltage upto and including 1000 V	Temperature Rise Test	Cl. 5.9 of IS 16636:2017
1100	ELECTRICAL- CAPACITORS	APFC panel for voltage upto and Including 1000 V	Verification of output	Cl.5.3 of IS 16636:2017
1101	ELECTRICAL- CAPACITORS	APFC panels for voltage upto and including 1000 V	Lightning Impulse voltage withstand test	CI.5.8 of IS 16636:2017
1102	ELECTRICAL- CAPACITORS	APFC panels Voltage upto and including 1000V	Power frequency withstand voltage test between phases	Cl. 5.7 of IS 16636:2017
1103	ELECTRICAL- CAPACITORS	Automatic power factor correction (APFC) Panels for voltage rating up to and including 1000 V	Dielectric tests	Cl. 5.4 of IS 16636:2017
1104	ELECTRICAL- CAPACITORS	Automatic power factor correction (APFC) Panels for voltage rating up to and including 1000 V	Inspection of the panel including inspection wiring	Cl. 5.17 of IS 16636:2017
1105	ELECTRICAL- CAPACITORS	Automatic power factor correction (APFC) Panels for voltage rating up to and including 1000 V	Measurement of transient over currents due to capacitor switching	Cl. 5.16 of IS 16636:2017
1106	ELECTRICAL- CAPACITORS	Automatic power factor correction (APFC) Panels for voltage rating up to and including 1000 V	Power Frequency test between terminals and body	Cl. 5.6 of IS 16636:2017
1107	ELECTRICAL- CAPACITORS	Automatic power factor correction (APFC) Panels for voltage rating up to and including 1000 V	Test for checking the functional operation	Cl. 5.18 of IS 16636-2017
1108	ELECTRICAL- CAPACITORS	Automatic power factor correction (APFC) Panels for voltage rating up to and including 1000 V	Verification of the effectiveness of automatic PF correction	Cl. 5.15 of IS 16636-2017
1109	ELECTRICAL- CAPACITORS	Automatic power factor correction (APFC) Panels for voltage rating up to and including 1000 V	Verification of the effectiveness of connection	Cl. 5.10.1 of IS 16636-2017
1110	ELECTRICAL- CAPACITORS	Automatic power factor correction (APFC) Panels for voltage rating up to and including 1000 V	Voltage withstand test between phases	Cl. 5.7 of IS 16636-2017
1111	ELECTRICAL- CAPACITORS	Capacitor for Power Electonics	Test for Internal Discharge Device / Charge/discharge cycle test	Cl.5.7 of IEC 61881-2010 / Cl. 5.7 of IEC 61071:2017 / IS 13666
1112	ELECTRICAL- CAPACITORS	Capacitor for Power Electonics	Voltage test between terminals and container	Cl.5.6.2 & Cl.5.6.1 of IEC 61881-2010 / Cl. 5.5.2 & 5.5.3 of IEC 61071:2017 / IS 13666
1113	ELECTRICAL- CAPACITORS	Capacitor for Power Electronics	Capacitance Measurement	Cl.8.4.2 & Cl.8.4.3 of IEC 62146-2013 / Cl. 5.3 & 5.4 of IEC 61881-2010 / Cl. 5.3 of IEC 61071:2017 / IS 13666


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1114	ELECTRICAL- CAPACITORS	Capacitor for Power Electronics	Destruction Test	Cl.5.16 of IEC 61881-2010 / Cl. 5.16 of IEC 61071-2017
1115	ELECTRICAL- CAPACITORS	Capacitor for Power Electronics	Resonance frequency test / Measurement of ESL / Measurement of ESR	Cl.8.7 of IEC 62146-2013,- AMD 1-2016 / Cl. 5.12 of IEC 61881-2010 / Cl.5.12 of IEC 61071:2017 / IS 13666
1116	ELECTRICAL- CAPACITORS	Capacitor for Power Electronics	Tandelta Measurement	Cl. 5.3 & Cl.5.4 of IEC 61881-2010 / Cl. 5.3 & Cl.5.4 of IEC 61071:2017 / IS 13666
1117	ELECTRICAL- CAPACITORS	Capacitor for Power Electronics	Test of Internal Discharge Device	Cl.5.7 of IEC 60881-2010 / Cl. 5.7 of IEC 61071-2017
1118	ELECTRICAL- CAPACITORS	Capacitor for Power Electronics	Thermal Stability Test for Capacitors	Cl.5.10 of IEC 61881-2010 / Cl. 5.10 of IEC 61071 -2017
1119	ELECTRICAL- CAPACITORS	Capacitor for Power Electronics/Grading Capacitors	Sealing Test/Tightness test	Cl.9.6 of IEC 62146-2013 / Cl.5.8 of IEC 61881-2010 / Cl. 5.8 of IEC 61071:2017 / IS 13666
1120	ELECTRICAL- CAPACITORS	Capacitors for electric fan motors	Capacitance as function of temperature	Cl. 7.13 of IS 1709-1984- RA-1995, -AMD-1-1986, AMD-2- 1989-AMD-3- 2020
1121	ELECTRICAL- CAPACITORS	Capacitors for electric fan motors	Capacitance Measurement and Capacitance versus temperature	IS IEC 252:1975 RA Mar 2021 / Cl.7.5,Cl.7.13 of IS 1709-1984, RA-1995, RA-1995, AMD-1-1986, AMD-2- 1989- AMD-3- 2020
1122	ELECTRICAL- CAPACITORS	Capacitors for electric fan motors	Check of dimensions	Cl. 1.1 of IS 1709-1984, RA-1995, AMD-1-1986, AMD-2-1989, AMD-3- 2020
1123	ELECTRICAL- CAPACITORS	Capacitors for electric fan motors	Damp Heat test	IEC 252-1975 RA Mar 2021 / Cl.7.15 of IS 1709-1984, RA-1995, AMD-1-1986, AMD-2-1989, AMD-3- 2020
1124	ELECTRICAL- CAPACITORS	Capacitors for electric fan motors	Endurance test	IEC 252:1975 RA Mar 2021 / Cl.7.16 of IS 1709-1984, RA-1995, AMD-1-1986, AMD-2-1989, AMD-3- 2020
1125	ELECTRICAL- CAPACITORS	Capacitors for electric fan motors	Measurement of tangent of loss angle/Tan delta Measurement	IEC 252:1975 RA Mar 2021 / Cl.7.6 of IS 1709-1984, RA-1995, AMD-1-1986, AMD-2-1989, AMD-3- 2020
1126	ELECTRICAL- CAPACITORS	Capacitors for electric fan motors	Robustness of termination - Soldering test	IEC 252:1975 RA Mar 2021 / Cl. 7.11 of IS 1709-1984, RA-1995, AMD-1-1986, AMD-2-1989, AMD-3- 2020



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1127	ELECTRICAL- CAPACITORS	Capacitors for electric fan motors	Sealing Test	IEC 252:1975 RA Mar 2021 / Cl.7.12 of IS 1709-1984, RA-1995, AMD-1-1986, AMD-2-1989, AMD-3- 2020
1128	ELECTRICAL- CAPACITORS	Capacitors for electric fan motors	Self Healing Test	IEC 252:1975 RA Mar 2021,Cl.7.14 of IS 1709-1984, RA-1995, AMD-1-1986, AMD-2-1989, AMD-3- 2020
1129	ELECTRICAL- CAPACITORS	Capacitors for electric fan motors	Test for Flexibility of Lead Terminations	Cl. 7.8 of IS 1709-1984, RA-1995, AMD-1-1986, AMD-2-1989, AMD-3- 2020
1130	ELECTRICAL- CAPACITORS	Capacitors for electric fan motors	Test for flexibility of soldering tags	Cl. 7.9 of IS 1709-1984, RA-1995, AMD-1-1986, AMD-2-1989, AMD-3- 2020
1131	ELECTRICAL- CAPACITORS	Capacitors for electric fan motors	Test for screw terminals	Cl. 7.10 of IS 1709-1984, RA-1995, AMD-1-1986, AMD-2-1989, AMD-3- 2020
1132	ELECTRICAL- CAPACITORS	Capacitors for electric fan motors	Visual examination	Cl. 7.2 of IS 1709-1984, RA-1995, AMD-1-1986, AMD-2-1989, AMD-3- 2020
1133	ELECTRICAL- CAPACITORS	Capacitors for electric fan motors	Voltage test between terminals	Cl. 7.4.1 of IS 1709-1984, RA-1995, AMD-1-1986, AMD-2-1989, AMD-3- 2020
1134	ELECTRICAL- CAPACITORS	Capacitors for electric fan motors	Voltage test Between terminals and Container or Voltage test between terminal to case	IEC 252:1975 RA Mar 2021 / Cl.7.4.2 of 1709-1984, RA-1995 , -RA-1995, AMD-1-1986, AMD-2- 1989, AMD-3- 2020
1135	ELECTRICAL- CAPACITORS	Capacitors for Power Electronics	Disconnecting test on fuses	Cl.5.17 of IEC 61881-2010 / Cl. 5.17 of IEC 61071-2017
1136	ELECTRICAL- CAPACITORS	Capacitors for Power Electronics	Endurance test	CI.5.15 of IEC 61881-2010 / CI.5.15 of IEC 61071-2017
1137	ELECTRICAL- CAPACITORS	Capacitors for Power Electronics	Environmental Testing	Cl.5.13 of IEC 61881-2010 / Cl. 5.13 of IEC 61071-2017
1138	ELECTRICAL- CAPACITORS	Capacitors for Power Electronics	External Inspection or Dimension verification / Visual examination	Cl.9.7 of IEC 62145-2013 / Cl.5.14.2 of IEC 61881-2010 / Cl.5.14.2 of IEC 61071:2017 / IS 13666
1139	ELECTRICAL- CAPACITORS	Capacitors for power electronics	Mechanical tests	Cl. 5.14 of IEC 61071:2017 / Cl. 5.14 of IEC 61881-1:2010
1140	ELECTRICAL- CAPACITORS	Capacitors for Power Electronics	Self Healing Test	Cl.5.11 of IEC 60881-2010 / Cl, 5.11 of IEC 61071-2017
1141	ELECTRICAL- CAPACITORS	Capacitors for surge protection for use in voltage system above 1000 V & upto 45 kV	Capacitance measurement and Output Test on Capacitors	Cl.9.2 of IS 11548-1986 RA - 2006 AMD 2-2017



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1142	ELECTRICAL- CAPACITORS	Capacitors for surge protection for use in voltage system above 1000 V & upto 45 kV	Dielectric loss test & capacitor losses test/Tan delta Measurement	Cl.9.4 of IS 11548-1986 RA-2006 AMD 2-2017
1143	ELECTRICAL- CAPACITORS	Capacitors for surge protection for use in voltage system above 1000 V & upto 45 kV	Lightning Voltage withstand Test between terminals and Container	Cl.9.6 of IS 11548-1986 RA-2006 AMD 2-2017
1144	ELECTRICAL- CAPACITORS	Capacitors for surge protection for use in voltage system above 1000 V & upto 45 kV	Sealing test	Cl.9.9 of IS 11548-1986, RA -2006 AMD 2 -2017
1145	ELECTRICAL- CAPACITORS	Capacitors for surge protection for use in voltage system above 1000 V & upto 45 kV	Thermal Stability Test	Cl. 9.3 of IS 11548-1986 RA-2006 AMD 2-2017
1146	ELECTRICAL- CAPACITORS	Capacitors for surge protection for use in voltage system above 1000 V & upto 45 kV	Voltage test	Cl.9.5 of IS 11548-1986 RA -2006 AMD 2-2017
1147	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Capacitance Measurement and Capacitance versus temperature	Cl. 5.8 Of IS 1569-1976-AMD 1-1981 / Cl.5.8 of IEC 61048- 2015 / Cl.6 & Cl.7 of IEC 61049:1991
1148	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Endurance test	IS 1569-1976, AMD-1-1981 / Cl. 18.1.1 of IEC 61048:2006-A1- 2015 / Cl.5.13 of IEC 61048 2015 / Cl.6.0 of IEC 61049:1991
1149	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	High Voltage test to container or voltage test between terminals and case	IS 1569-1976, AMD-1-1981 2006 / Cl.14 of IEC 61048- -2006 A1-2015 / Cl.14 of IEC 61049:1991
1150	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Resistance to heat and tracking/ Resistance to adverse operating conditions	Cl. 15 of IEC 61048:2006-A1 2015 / Cl. 16 of IEC 61048:2006-A1 2015
1151	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Robustness of termination and flexibility test	IS 1569-1976, AMD-1-1981 / Cl.7 of IEC 61048-2015 / Cl.15 of IEC 61049 -2002
1152	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Robustness of termination - Soldering test	IS 1569-1976, AMD-1-1981 / Cl.7 of IEC 61048-2015 / Cl.15 of IEC 61049-2002
1153	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Sealing and heating test	Cl. 13 of IEC 61048:2006-A1 2015 / Cl.5.8 of IS 1569-1976 AMD 1-1981
1154	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Sealing and heating test	Cl. 5.8 of IS 1569-1976 - AMD1-1981
1155	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Tan delta Measurement	IS 1569-1976, AMD-1-1981 / Cl.5.8 of IEC 61048-2015 / Cl.6 of IEC 61049 -2002



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1156	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Thermal Stability test	IS 1569-1976, AMD-1-1981 / Cl.5.10 of IEC 61048-2015 / Cl.17 of IEC 61049-2002
1157	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Visual Examination , Check for Marking, Required marking	Cl. 6.1 of IEC 61048:2006-A1 2015 / Cl. 5 of IEC 61049:1991 / Cl. 5.8 of IS 1569-1976 - AMD-1-1981
1158	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Voltage proof test between terminal to terminal	IS 1569-1976, AMD-1-1981 / Cl.5.6 of IEC 61048-2015 / Cl.13 of IEC 61049-2002
1159	ELECTRICAL- CAPACITORS	Capacitors for use in electric fan motors	Insulation Resistance test	Cl.7.3 of IS 1709-1984, RA-1995
1160	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Damp heat test/ Humidity test with voltage applied	Cl.5.8 of IS 1569-1976 AMD 1-1981 / Cl. 15.1 of IEC 61048:2006-A1 2015
1161	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Destruction test/ Destruction of the Capacitors	Cl. 18 of IEC 61048:2006-A1 2015 / Cl. 18.2.3.2 of IEC 61048:2006-A1 2015 / Cl.5.8 of IS 1569-1976 AMD 1-1981
1162	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Sealing Test/Leakage test/Oil leakage test	Cl.5.5.2 ofIS 1569-1976, AMD-1-1981 / Cl.12 of .IEC 61048- 2015 / IEC 61049-1991
1163	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Test of Discharge device/Test on Internal discharge device	Cl.5.9 of IS 1569-1976, AMD-1-1981 / IEC 61048 2015 / IEC 61049 -1991
1164	ELECTRICAL- CAPACITORS	Capacitors for use in Tubular Fluorescent, High Pressure mercury and Low Pressure Sodium Vapour Discharge Lamp Circuits	Visual Examination	Cl.5.8 of IS 1569-1976 AMD 1-1981
1165	ELECTRICAL- CAPACITORS	Coupling Capacitors ,Capacitive Dividers	Lightning Voltage withstand Test between terminals and Container	IS 9348:1998 / Cl.9.2.5 of IEC 60358 RA 2004 / IEC 60358:2012 / IEC 62146-1:2013+AMD1
1166	ELECTRICAL- CAPACITORS	Coupling Capacitors ,Capacitive Dividers and Grading Capacitors	Voltage test at low temperature and High temperature	Cl.8.5 & Cl.9.5 of IEC 62146-1-2013-AMD 1-2016
1167	ELECTRICAL- CAPACITORS	Coupling Capacitors ,Capacitive Dividers and Grading Capacitors for HVAC circuit breakers	Voltage withstand Test between terminals	Cl.5.5.3 & Cl.5.5.2 of IEC 61881-2010 / Cl.5.5 .2 & Cl.5.5.3 of IEC 61071-2017 / IS 9348-1998 / IEC 60358- 2004 / IEC 60358-1990 / IEC 62146-1:2013+AMD1:2016 / IS 13666
1168	ELECTRICAL- CAPACITORS	Coupling Capacitors, Capacitive Dividers and Grading Capacitors	Power Frequency withstand test or Voltage test between terminals and case	IS 9348-1998 IEC 358(1990) / IEC 60358- 2004 / IEC 60358 1990 / IEC 62146-1:2013+AMD1



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1169	ELECTRICAL- CAPACITORS	Coupling Capacitors. Capacitive Dividers and Grading Capacitors	Tan delta test	IS 9348-1998 IEC 358(1990) / IEC 60358 - 2004 / IEC 60358- 1990 / IEC 62146 / IEC 62146-1:2013+AMD1
1170	ELECTRICAL- CAPACITORS	Grading capacitor	Determination of temperature co-efficient for capacitance - Determination of temperature co-efficient for Tandelta	IEC 60358-1-2012 / IEC 60358-2-2013 /.IEC 60358-3-
1171	ELECTRICAL- CAPACITORS	Grading capacitors	Tightness test at different temperature,Visual inspection and dimension check	CI.8.9 & CI.9.7 of IEC 62146-1-2013 AMD 1-2016
1172	ELECTRICAL- CAPACITORS	Grading Capacitors for HVAC Circuit breakers	Capacitance measurement, Tandelta Measurement and Resonance frequency measurement	Cl.8.4.2, Cl.8.4.3, Cl.8.4.7, Cl.8.7 of IEC 62146-1-2013 AMD 1-2016
1173	ELECTRICAL- CAPACITORS	Grading Capacitors for HVAC Circuit breakers	Power Frequency withstand test	CI.8.4.7-IEC 62146-1-2013, Am-1-2016
1174	ELECTRICAL- CAPACITORS	Low-voltage power factor correction banks/ APFC panels for voltage upto and including 1000 V	Dielectic tests	CI.7.9 of IEC 61921-2017
1175	ELECTRICAL- CAPACITORS	Low-voltage power factor correction banks/ APFC panels for voltage upto and including 1000 V	Dielectic tests	CI.7.9 of IEC 61921-2017
1176	ELECTRICAL- CAPACITORS	Low-voltage power factor correction banks/APFC panel for voltage upto and including 1000 V	Temperature rise test	Cl.7.2.2 of IEC 61439-2011 / Cl.7.10 of IEC 61921-2017
1177	ELECTRICAL- CAPACITORS	Series capacitors for power systems	AC voltage test between terminals and container	Cl. 2.10 of IS 9835(Part-1):2001 IEC 60143-1:1992 / Cl. 5.6 of IEC 60143-1:2015+AMD1
1178	ELECTRICAL- CAPACITORS	Series capacitors for power systems	Capacitance Measurement	Cl. 2.4 of IS 9835(Part-1):2001 IEC 60143-1:1992 / Cl. 5.4 of IEC 60143-1:2015+AMD1
1179	ELECTRICAL- CAPACITORS	Series capacitors for power systems	Capacitor loss Measurement	Cl. 2.4 of IS 9835(Part-1):2001 IEC 60143-1:1992 / Cl. 5.4 of IEC 60143-1:2015+AMD1
1180	ELECTRICAL- CAPACITORS	Series capacitors for power systems	Cold duty test	Cl. 5.12 of IEC 60143-1:2015+AMD1:2023 / Cl. 2.12 of IS 9835(Part-1):2001 IEC 60143-1:1992
1181	ELECTRICAL- CAPACITORS	Series capacitors for power systems	Discharge current test	Cl. 5.13 of IEC 60143-1:2015+AMD1:2023 / Cl. 2.13 of IS 9835(Part-1):2001 IEC 60143-1



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1182	ELECTRICAL- CAPACITORS	Series capacitors for power systems	Discharge test on Internal fuses	Cl. 3.2.2 of IS 9835(Part-3):2012 IEC 60143-3:1998 / Cl. 5.2.2 of IEC 60143-1:2015+AMD1
1183	ELECTRICAL- CAPACITORS	Series capacitors for power systems	Disconnecting test on internal fuses	Cl. 3.2.3 of IS 9835(Part-3):2012 IEC 60143-3:1998 / Cl. 5.2.3 of IEC 60143-1:2015+AMD1
1184	ELECTRICAL- CAPACITORS	Series capacitors for power systems	Endurance - Ageing Test (Special test)	Cl. 5.2.4 of IEC 60143-1:2015+AMD1:2023 / Cl. 2.2.4 of IS 9835(Part-1):2001 IEC 60143-1
1185	ELECTRICAL- CAPACITORS	Series capacitors for power systems	Endurance - Ageing Test (Special test)	Cl. 5.2.4 of IEC 60143-1:2015+AMD1:2023 / Cl. 2.2.4 of IS 9835(Part-1):2001 IEC 60143-1
1186	ELECTRICAL- CAPACITORS	Series Capacitors for power systems	Lightning impulse voltage test between terminals and container	Cl. 2.11 of IS 9835(Part-1):2001 IEC 60143-1:1992 / Cl. 5.11 of IEC 60143-1:2015+AMD1
1187	ELECTRICAL- CAPACITORS	Series capacitors for power systems	Sealing test	Cl. 2.8 of IS 9835(Part-1):2001 IEC 60143-1:1992 / Cl. 5.8 of IEC 60143-1:2015+AMD1
1188	ELECTRICAL- CAPACITORS	Series capacitors for power systems	Test on Internal discharge device	Cl. 3.2.2 of IS 9835(Part-3):2012 IEC 60143-3:1998 / Cl. 5.2.2 of IEC 60143-3:2015
1189	ELECTRICAL- CAPACITORS	Series capacitors for power systems	Thermal Stability Test	Cl. 2.9 of IS 9835(Part-1):2001 IEC 60143-1:1992 / Cl. 5.9 of IEC 60143-1:2015+AMD1
1190	ELECTRICAL- CAPACITORS	Series capacitors for power systems	Voltage test after opening the container	Cl. 2.5 of IS 9835(Part-1):2001 IEC 60143-1:1992 / Cl. 5.5 of IEC 60143-1:2015+AMD1
1191	ELECTRICAL- CAPACITORS	Series capacitors for power systems	Voltage test between terminals	Cl.8.5 of IEC 62146-1-2013 / Cl. 2.5 of IS 9835(Part-1):2001 IEC 60143-1:1992 / Cl. 5.5 of IEC 60143-1:2015+AMD1
1192	ELECTRICAL- CAPACITORS	Shunt capacitors for a.c power systems having a rated voltage above 1000 V	Capacitance Measurement	Cl.7 of IS 13925 (Pt 1): 2012 .IEC 60871-1-2005 / Cl.7 of 60871-1:2005 / Cl.7 of IEC 60871-1: 2014 / IEC TS 60871- -2014 / Cl.5.3.2 of IEC 60871-4-2014 / Cl.7.2.2 of IEEE Std.18-2012



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1193	ELECTRICAL- CAPACITORS	Shunt capacitors for a.c power systems having a rated voltage above 1000 V	Discharge test on Internal Fuses	Cl.5.1.1 & Cl.5.3 of IEC 60871-4-2014 / Cl. 5.1.1 of IS 13925(Part-4):2013 IEC 60871-4-1996
1194	ELECTRICAL- CAPACITORS	Shunt capacitors for a.c power systems having a rated voltage above 1000 V	Disconnecting Test on internal fuses	Cl.5.1.1 & Cl.5.3 of IEC 60871-4- 2014 / IS 13925(Part-4):2013 / IEC 60871-4-1996
1195	ELECTRICAL- CAPACITORS	Shunt capacitors for a.c power systems having a rated voltage above 1000 V	Lightning Impulse Voltage Test between terminals and Container	Cl.15.2 of IEC 60871-1-2014 / Cl.16 of IS 13925(Part-1):2012 IEC 60871-1-2005 / Cl.16 of IEC 60871-1-2005
1196	ELECTRICAL- CAPACITORS	Shunt capacitors for a.c power systems having a rated voltage above 1000 V	Measurement of tangent of loss angle(Tan delta) of the capacitor	Cl.8 of IS 13925(Part 1):2012 IEC 60871-1 2005 / IS 13925(Part-2)-2002 IEC 60871-2-1999 / Cl.8 of IEC 60871-1-2005 Cl.8 of IEC 60871-1-2014
1197	ELECTRICAL- CAPACITORS	Shunt capacitors for a.c power systems having a rated voltage above 1000 V	Over voltage test/ performance test	Cl.16 of IEC 60871-1-2014 / IEEE Std.18-2012
1198	ELECTRICAL- CAPACITORS	Shunt capacitors for a.c power systems having a rated voltage above 1000 V	Reactive Output Test on Capacitors	IS 13925 (Part.1):2012 IEC 60871-1-2005 / IEC 60871-1-2005 / IEC 60871-1-2014
1199	ELECTRICAL- CAPACITORS	Shunt capacitors for a.c power systems having a rated voltage above 1000 V	Short Circuit Discharge test	Cl.17of IEC 60871-1-2014 / Cl.17 of IS 13925(Part 1):2012 IEC 60871-1-2005
1200	ELECTRICAL- CAPACITORS	Shunt capacitors for a.c power systems having a rated voltage above 1000 V	Test of Internal Discharge Device	Cl.11 of IEC 60871-1-2014 / IS 13925(Part-1):2012 IEC 60871-1-2005
1201	ELECTRICAL- CAPACITORS	Shunt capacitors for a.c power systems having a rated voltage above 1000 V	Thermal Stability Test	Cl.13 of IS 13925 (Part.1)-2012 IEC 60871-1-2005 / Cl.13 of fEC 60871-1-2014
1202	ELECTRICAL- CAPACITORS	Shunt capacitors for a.c power systems having a rated voltage above 1000 V	Voltage test between terminals	Cl.9 of IEC 60871-1-2014 / Cl.9 of IS 13925(Part-1)-2012 IEC 60871-1-2005 / Cl.9 of IEC 60871-1-2005
1203	ELECTRICAL- CAPACITORS	Shunt capacitors for a.c power systems having a rated voltage above 1000 V	Voltage test Between terminals and Container	Cl.9 of IEC 60871-1-2014 / Cl.9 of IS 13925(Part-1)-2012 IEC 60871-1-2005, Cl.9 of IEC 60871-1-2005
1204	ELECTRICAL- CAPACITORS	Shunt capacitors for AC power systems having a rated voltage above 1000V	Endurance Testing- Ageing Test	IEC 60871-2-2014 / IS 13925(Part-2):2002 IEC 60871-2-1999 / IEC 60871-2-1999



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1205	ELECTRICAL- CAPACITORS	Shunt Capacitors for ac power systems having a rated voltage above 1000V	Endurance Testing- Over voltage cycling test	IS 13925(Part-2)-2002 IEC 60871-1-1999 / IEC 60871-2-1999 / IEC 60871-2-2014
1206	ELECTRICAL- CAPACITORS	Shunt capacitors for AC power Systems having a Rated voltage above 1000V	Measurement of Tangent of loss angle(Tan delta) of the capacitor	Cl.8 of IEC 60871-1 2014 / Cl.8 of IS 13925 (Part -1)-2012 IEC 60871-1-2005 / Cl.8 of IEC 60871-1-2005
1207	ELECTRICAL- CAPACITORS	Shunt capacitors for AC power systems having a rated voltage above 1000V	Measurement of Tangent of the loss angle(Tan delta) of the capacitor elevated temperature	Cl.14 of IEC 60871-1-2014 / Cl.14 IS 13925(Part-1):2012 IEC 60871-1-2005
1208	ELECTRICAL- CAPACITORS	Shunt capacitors for AC power Systems having a Rated voltage above 1000V	Sealing test	Cl.12 of IEC 60871-1-2014 / Cl.12 of IS 13925(Part-1)- 2012 IEC 60871-1-2005 / Cl.12 of IEC 60871-1-2005
1209	ELECTRICAL- CAPACITORS	Shunt capacitors for the self-healing type for ac power systems having a rated voltage upto and including 1000 V	Ageing test	Cl. 17 of IS 13340-1:2012 IEC 60831-1:2002 / Cl. 17 of IS 13340-2:2012 IEC 60831-2:1995 / Cl. 17 of IEC 60831-1:2014 / Cl. 17 of IEC 60831-2
1210	ELECTRICAL- CAPACITORS	Shunt capacitors for the self-healing type for ac power systems having a rated voltage upto and including 1000 V	Capacitance Measurement and output calculation	Cl.7 of IS 13340 (Part 1)-2012 / Cl.7 of IEC 60831-1- 2002 / IS 13340 (Part-1): 2012 / Cl.7 of IEC 60831-2-1995 / Cl.7 of IEC 60831-1
1211	ELECTRICAL- CAPACITORS	Shunt capacitors for the self-healing type for ac power systems having a rated voltage upto and including 1000 V	Destruction test	Cl. 19 of IS 13340-1:2012 IEC 60831-1:2002 / Cl. 19 of IS 13340-2-2012 IEC 60831-2-1995 / Cl. 19 of IEC 60831-1-2014 / Cl. 19 of IEC 60831-2:
1212	ELECTRICAL- CAPACITORS	Shunt capacitors for the self-healing type for ac power systems having a rated voltage upto and including 1000 V	Discharge test	Cl.16 of IS 13340 (Part 1)- 2012 IEC 60831-1-2002 / IEC 60831-2-2002 / IEC 60831-1-2014
1213	ELECTRICAL- CAPACITORS	Shunt capacitors for the self-healing type for ac power systems having a rated voltage upto and including 1000 V	Lightning Voltage withstand Test between terminals and Container	IS 13340 (Part 1): 2012 / Cl. 15 of IEC 60831-1-2002 / Cl. 15 of IEC 60831-1-2014
1214	ELECTRICAL- CAPACITORS	Shunt capacitors for the self-healing type for ac power systems having a rated voltage upto and including 1000 V	Measurement of the tangent of the loss angle (tan delta) of the capacitor	Cl. 8 of IS 13340 (Part-1)-2012 IEC 60831-1-2002 / Cl.8 of IEC 60831-1-2002 / Cl.8 of IEC 60831-1-2014



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1215	ELECTRICAL- CAPACITORS	Shunt capacitors for the self-healing type for ac power systems having a rated voltage upto and including 1000 V	Measurement of the tangent of the loss angle (tan delta) of the capacitor at elevated temperature	Cl. 14 of IS 13340 (Part 1)-2012 IEC 60831-1-2002 / Cl.14 of IEC 60831-1-2002 / Cl.14 of IEC 60831-1-2014
1216	ELECTRICAL- CAPACITORS	Shunt capacitors for the self-healing type for ac power systems having a rated voltage upto and including 1000 V	Sealing test	Cl.12 of IS 13340 (Part 1)-2012 IEC 60831-1-2002 / IEC 60331-1-2002 / IEC 60831-1-2014
1217	ELECTRICAL- CAPACITORS	Shunt capacitors for the self-healing type for ac power systems having a rated voltage upto and including 1000 V	Self Healing Test	Cl. 17 of IS 13340-1:2012 IEC 60831-1:2002 / Cl. 17 of IS 13340-2:2012 IEC 60831-2:1995 / Cl. 17 of IEC 60831-1:2014 / Cl. 17 of IEC 60831-2
1218	ELECTRICAL- CAPACITORS	Shunt capacitors for the self-healing type for ac power systems having a rated voltage upto and including 1000 V	Self-healing test	Cl.18 of IS 13340 (Part 1)- 2012 IEC 60831-1 2002 / Cl.18 of IS 13340 (Part 2) 2012 / IEC 60831-2 1995 / Cl.19 of IEC 60831-1 2014 / Cl.19 of IEC 60831-2
1219	ELECTRICAL- CAPACITORS	Shunt capacitors for the self-healing type for ac power systems having a rated voltage upto and including 1000 V	Tan delta Measurement	Cl.8 of IS 13340 (Part 1) -2012 / Cl.8 of IEC 60831-2002 / Cl.8 of IS 13340 (Part 2)-2012 IEC 60831-2- 1995 / IEC 60831-1- 2014 / Cl.8 of IEC 60831-2 -2014
1220	ELECTRICAL- CAPACITORS	Shunt capacitors for the self-healing type for ac power systems having a rated voltage upto and including 1000 V	Test of the Internal Discharge Device	Cl.11 of IS 13340 (Part 1)-2012 IEC 60831-1-2002 / IEC 60831-1-2002 / IEC 60831-1-2014
1221	ELECTRICAL- CAPACITORS	Shunt capacitors for the self-healing type for ac power systems having a rated voltage upto and including 1000 V	Thermal Stability test	Cl. 13 of IS 13340 (Part 1) 2012 IEC 60831-1-2002 / IEC 60831-1
1222	ELECTRICAL- CAPACITORS	Shunt capacitors for the self-healing type for ac power systems having a rated voltage upto and including 1000 V	Voltage test Between terminals	Cl. 9.1 & Cl. 9.2 of IS 13340 (Part 1) 2012 IEC 60831-1-2002 / IEC 60831-1:2014
1223	ELECTRICAL- CAPACITORS	Shunt capacitors for the self-healing type for ac power systems having a rated voltage upto and including 1000 V	Voltage test Between terminals and Container	Cl. 10.1 & Cl. 10.2 of IS 13340 (Part 1) 2012 IEC 60831-1-2002 / IEC 60831-1:2014
1224	ELECTRICAL- CAPACITORS	Shunt capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Ageing test	Cl.17 of IEC 60931-1 1996 / Cl.17 of IEC 60931-2-1995 / IS 13585(Part 1):2012 / IS 13585(Part 2):2012 IEC 60931-2:1995



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1225	ELECTRICAL- CAPACITORS	Shunt capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Capacitance Measurement	Cl. 7 of IS 13585 (Part 1): 2012 IEC 60931-1-1996 / Cl. 7 of IEC 60931-1 2011 / Cl. 7.1 of IEC 60931-2 2012 / Cl.7.1 of IEC 60931-3
1226	ELECTRICAL- CAPACITORS	Shunt capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Capacitance Measurement and output calculation	Cl. 7 of IS 13585 (Part 1) :2012 IEC 60931-1:1996 / IEC 60931-1 :1996
1227	ELECTRICAL- CAPACITORS	Shunt capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Lightning Voltage withstand Test between terminals and Container	CI.15 of IS 13585 (Part 1): 2012 IEC 60931-1 1996 / IEC 60931-1:1996
1228	ELECTRICAL- CAPACITORS	Shunt capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Lightning Voltage withstand Test between terminals and Container	IS 13585 (Part 1): 2012 Cl.15 of IEC 60931-1 1996 / IEC 60931-1:1996
1229	ELECTRICAL- CAPACITORS	Shunt capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Reactive Output Test on Capacitors	IS 13585(Part 1): 2012 IEC 60931-1:1996 / IEC 60931-1
1230	ELECTRICAL- CAPACITORS	Shunt capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Short Circuit Discharge test/Discharge test of Internal fuses/ Capacitor discharge test Discharge test/Surge Discharge test/ Current (discharge) test	Cl.5.9 of IEC 61881-2010 / Cl.5.9 of IEC 61071-2017 / Cl.5.14 of IS 1569 / Cl.17of IEC 61048 / Cl. 15.2 of IEC 61048:2006-A1 2015 / Cl.7 of IS 1709 / Cl.17 of IS 2993 / Cl.2.16 of IEC 60252-1 / Cl.5.16 of IEC 60252-2 / IS 13585 (Part 1):2012 / IS 13666
1231	ELECTRICAL- CAPACITORS	Shunt capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Tan delta Measurement	IS 13585 (Part 1):2012 / Cl.8 of IEC 60931-1-1996 / Cl.8 of IEC 60931-2:2012
1232	ELECTRICAL- CAPACITORS	Shunt capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Thermal Stability Test	Cl.13 of IS 13585 (Part)1:2012 IEC 60931-1 1996 / IEC 60931-1
1233	ELECTRICAL- CAPACITORS	Shunt capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Voltage test between terminals and container	Cl.10.1 &10.2 of IS 13585(Part 1)-2012 IEC 60931-1-1996 / IEC 60931-1-1996
1234	ELECTRICAL- CAPACITORS	Shunt power Capacitor	Capacitance test / Reactive Output Test on Capacitors	Cl.7.2.2 of IEEE Std. 18-2012
1235	ELECTRICAL- CAPACITORS	Shunt power Capacitor	Discharge resistor test	Cl.7.2.4 of IEEE Std.18-2012
1236	ELECTRICAL- CAPACITORS	Shunt power Capacitor	Fuse capability test for Internally fused capacitors	Cl.7.2.6 of IEEE Std.18-2012
1237	ELECTRICAL- CAPACITORS	Shunt power Capacitor	Fuse Disconnect Test for Internally fused capacitors	CI 7.1.7 of IEEE Std.18-2012
1238	ELECTRICAL- CAPACITORS	Shunt Power Capacitor	Leak test	CI.7.2.3 of IEEE Std.18



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1239	ELECTRICAL- CAPACITORS	Shunt power capacitor	Lightning Voltage withstand Test between terminals and Container	Cl.7.1.1 of IEEE Std.18-2012
1240	ELECTRICAL- CAPACITORS	Shunt power Capacitor	Short Circuit Discharge test	Cl.7.1.5 of IEEE 18 -2012
1241	ELECTRICAL- CAPACITORS	Shunt Power Capacitor	Short time over voltage test	Cl. 7.2.1 of IEEE Std.18-2012
1242	ELECTRICAL- CAPACITORS	Shunt power Capacitor	Thermal Stability Test	Cl.7.1.3 of IEEE Std. 18
1243	ELECTRICAL- CAPACITORS	Shunt power capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Destruction test	Cl. 19 of 13585 (Part 1) : 2012 IEC 60931-1 :1996 / IEC 60931-1
1244	ELECTRICAL- CAPACITORS	Shunt power capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Discharge test	Cl. 16 of 13585 (Part 1) : 2012 IEC 60931-1 :1996 / IEC 60931-1:1996
1245	ELECTRICAL- CAPACITORS	Shunt power capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Disconnecting test on Internal fuses	Cl. 6.2(j) of IS 13585-1 2012 IEC 60931-1 1996 / Cl. 5.3 of IS 13585-3 2012 IEC 60931-3 1996
1246	ELECTRICAL- CAPACITORS	Shunt power capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Measurement of the tangent of the loss angle (tan delta) of the capacitor at elevated temperature	Cl. 14 of IS 13585 (Part 1) : 2012 IEC 60931-1:1996 / IEC 60931-1:1996
1247	ELECTRICAL- CAPACITORS	Shunt power capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Sealing test	Cl. 12 of 13585 (Part 1) : 2012 IEC 60931-1 :1996 / IEC 60931-1:1996
1248	ELECTRICAL- CAPACITORS	Shunt power capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Test of the Internal Discharge device	Cl. 11 of 13585 (Part 1) : 2012 IEC 60931-1 / IEC 60931-1:1996
1249	ELECTRICAL- CAPACITORS	Shunt power capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Voltage test between terminals	Cl. 9.1 & Cl. 9.2 of 13585 (Part 1) : 2012 IEC 60931-1:1996 / IEC 60931-1:1996
1250	ELECTRICAL- CAPACITORS	Shunt power capacitors of non self healing type for ac power systems having a rated voltage upto and including 1000 V	Voltage test between terminals and Container	Cl. 10.1 & Cl. 10.2 of 13585 (Part 1) : 2012 IEC 60931-1 / IEC 60931-1:1996
1251	ELECTRICAL- CELLS & BATTERIES	Valve Regulated (Sealed) Lead Acid Stationary Battery and Charger	Test for Voltage during discharge	(Cl. A.10.8) IRS:S 93/96 with Amd. 1
1252	ELECTRICAL- CELLS & BATTERIES	Valve Regulated (Sealed) Lead Acid Stationary Battery and Charger	Ampere hour and watt hour efficiency tests	(Cl. A.10.7) IRS:S 93/96 with Amd. 1
1253	ELECTRICAL- CELLS & BATTERIES	Valve Regulated (Sealed) Lead Acid Stationary Battery and Charger	Endurance test	(Cl. A.10.6) IRS:S 93/96 with Amd. 1
1254	ELECTRICAL- CELLS & BATTERIES	Valve Regulated (Sealed) Lead Acid Stationary Battery and Charger	Test for Capacity	(Cl. A.10.4) IRS:S 93/96 with Amd. 1
1255	ELECTRICAL- CELLS & BATTERIES	Valve Regulated (Sealed) Lead Acid Stationary Battery and Charger	Test for Charge Retention	(Cl. A.10.5) IRS:S 93/96 with Amd. 1



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1256	ELECTRICAL- CELLS & BATTERIES	Valve Regulated (Sealed) Lead Acid Stationary Battery and Charger	Test for Endurance under short circuit conditions	(Cl. A.10.9) IRS:S 93/96 with Amd. 1
1257	ELECTRICAL- CELLS & BATTERIES	Valve Regulated (Sealed) Lead Acid Stationary Battery and Charger	Verification for marking packing	(Cl. A.10.3, 6 & 7) IRS:S 93/96 with Amd. 1
1258	ELECTRICAL- CELLS & BATTERIES	Valve Regulated (Sealed) Lead Acid Stationary Battery and Charger	Verification of constructional requirements	(Cl. A.10.2, A. 3.1, A. 3.2, A. 3.7 & A. 3.9) IRS:S 93/96 with Amd. 1
1259	ELECTRICAL- CELLS & BATTERIES	General Purpose Lead-Acid Batteries (Valve-Regulated Types)	Capacity	(Cl. 5.1 & 7.2) IS 16220 (Part 1):2015 IEC 61056-1 (RA-2020)
1260	ELECTRICAL- CELLS & BATTERIES	General Purpose Lead-Acid Batteries (Valve-Regulated Types)	Charge Acceptance after Deep Discharge	(Cl. 5.5 & 7.9) IS 16220 (Part 1):2015 IEC 61056-1
1261	ELECTRICAL- CELLS & BATTERIES	General Purpose Lead-Acid Batteries (Valve-Regulated Types)	Charge Retention	(Cl. 5.3 & 7.7) IS 16220 (Part 1):2015 IEC 61056-1
1262	ELECTRICAL- CELLS & BATTERIES	General Purpose Lead-Acid Batteries (Valve-Regulated Types)	Construction	(Cl. 4.1) IS 16220 (Part 1):2015 IEC 61056-1
1263	ELECTRICAL- CELLS & BATTERIES	General Purpose Lead-Acid Batteries (Valve-Regulated Types)	Cycle Service Endurance	(Cl. 5.2.1 & 7.4) IS 16220 (Part 1):2015 IEC 61056-1
1264	ELECTRICAL- CELLS & BATTERIES	General Purpose Lead-Acid Batteries (Valve-Regulated Types)	Float Service Endurance	(Cl. 5.2.2 & 7.5) IS 16220 (Part 1):2015 IEC 61056-1
1265	ELECTRICAL- CELLS & BATTERIES	General Purpose Lead-Acid Batteries (Valve-Regulated Types)	Float Service Endurance at 40?C	(Cl. 7.6) IS 16220 (Part 1):2015 IEC 61056-1
1266	ELECTRICAL- CELLS & BATTERIES	General Purpose Lead-Acid Batteries (Valve-Regulated Types)	High Rate Capacity	(Cl. 5.1 & 7.3) IS 16220 (Part 1):2015 IEC 61056-1
1267	ELECTRICAL- CELLS & BATTERIES	General Purpose Lead-Acid Batteries (Valve-Regulated Types)	Maximum Permissible Current	(Cl. 5.4 & 7.8) IS 16220 (Part 1):2015 IEC 61056-1
1268	ELECTRICAL- CELLS & BATTERIES	General Purpose Lead-Acid Batteries (Valve-Regulated Types)	Shock Resistant Characteristics	(Cl. 5.10 & 7.13) IS 16220 (Part 1):2015 IEC 61056-1
1269	ELECTRICAL- CELLS & BATTERIES	General Purpose Lead-Acid Batteries (Valve-Regulated Types)	Verification of Marking of Polarity	(Cl. 4.4) IS 16220 (Part 1):2015 IEC 61056-1
1270	ELECTRICAL- CELLS & BATTERIES	Lead Acid Storage Batteries for Motor Vehicles	Dimensions and Layout	(Cl. 9.4 & 6) IS 7372:1995 RA
1271	ELECTRICAL- CELLS & BATTERIES	Lead Acid Storage Batteries for Motor Vehicles	High Rate Discharge at normal temperature	(Cl. 9.9) IS 7372:1995 RA
1272	ELECTRICAL- CELLS & BATTERIES	Lead Acid Storage Batteries for Motor Vehicles	Physical Examination	(Cl. 9.3 & 4) IS 7372:!995 RA
1273	ELECTRICAL- CELLS & BATTERIES	Lead Acid Storage Batteries for Motor Vehicles	Retention of charge test	(Cl. 9.12) IS 7372:1995 RA
1274	ELECTRICAL- CELLS & BATTERIES	Lead Acid Storage Batteries for Motor Vehicles	Test for Capacity	(Cl. 9.7) IS 7372:1995 RA
1275	ELECTRICAL- CELLS & BATTERIES	Lead Acid Storage Batteries for Motor Vehicles	Verification of Marking	(Cl. 9.5 & 8) IS 7372:1995 RA



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1276	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Starter Batteries	Capacity Test	(Cl. 10.1) JIS D 5301
1277	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Starter Batteries	Charge Acceptance Test	(Cl. 10.4) JIS D 5301
1278	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Starter Batteries	Cranking Performance Test	(Cl. 10.3) JIS D 5301
1279	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Starter Batteries	Endurance Test	(Cl. 10.5) JIS D 5301
1280	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Starter Batteries	Marking	(Cl. 5) JIS D 5301
1281	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles	High rate discharge at low temperature	(Cl. 9.10) IS 7372: 1995 RA
1282	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles	High rate discharge test at normal temperature for Batteries for Heavy Duty Application	(Cl. 9.11) IS 7372: 1995 RA
1283	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles	High-Rate Discharge Capacity (Dry Charged Battery)	(Cl. 9.17) IS 7372: 1995 RA
1284	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles	Resistance to overcharge test	(Cl. 9.13) IS 7372: 1995 RA
1285	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles	Storage (for dry charged batteries)	(Cl. 9.16) IS 7372: 1995 RA
1286	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles	Storage test	(Cl. 9.15) IS 7372: 1995 RA
1287	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with light weight and high cranking performance	Charge Retention test	(Cl. 9.3.10) IS 14257
1288	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with light weight and high cranking performance	Cold Cranking Performance test	(Cl. 9.3.6) IS 14257
1289	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with light weight and high cranking performance	Dimensions and Layout	(Cl. 9.3.2) IS 14257
1290	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with light weight and high cranking performance	High rate discharge	(Cl. 9.3.5) IS 14257
1291	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with light weight and high cranking performance	Overcharge Endurance	(Cl. 9.3.9) IS 14257: 2019 RA
1292	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with light weight and high cranking performance	Physical Examination	(Cl. 9.3.1) IS 14257: 2019 RA
1293	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with light weight and high cranking performance	Physical Examination	(Cl. 9.3.11) IS 14257
1294	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with light weight and high cranking performance	Reverse Capacity Test	(Cl. 9.3.7) IS 14257



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1295	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with light weight and high cranking performance	Test for Dry-Charged Battery	(Cl. 9.3.12) IS 14257: 2019 RA
1296	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with light weight and high cranking performance	Verification of Marking	(Cl. 9.3.3) IS 14257: 2019 RA
1297	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles with light weight and high cranking performance/Lead Acid Starter Batteries, General Purpose Lead Acid Batteries(Valve Regulated Type), Secondary Cells and Batteries for Photovoltaic Energy Systems,)/ Lithium ion traction battery packs and systems	Capacity Test	IS 16220 Part-1/2015&IEC61056-1/2012, JIS D 5301/2019, IEC 61427-1/2013, ISO 12405 (Part 4) 2018
1298	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Storage Batteries for Motor Vehicles/Sealed Nickel-Cadmium Button type rechargeable single cells/ Lithium ion traction battery packs and systems	Life test	IS 7372: 1995 RA 2017, IS 10893/1984 RA 2014, ISO 12405 (Part 4) 2018
1299	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Traction Batteries	Capacity Test	(Cl. 5.2) IS 5154 (Part 1): 2013 RA:2018 IEC 60254-1
1300	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Traction Batteries	Cyclic Endurance Test	(Cl. 5.5) IS 5154 (Part 1): 2013 RA:2018 IEC 60254-1
1301	ELECTRICAL- CELLS & BATTERIES	Lead-Acid Traction Batteries	High Rate Discharge Performance	(Cl. 5.4) IS 5154 (Part 1): 2013 RA :2018 IEC 60254-1
1302	ELECTRICAL- CELLS & BATTERIES	Low Maintenance Lead Acid Stationary Secondary Cells for S&T Installations	Ampere-hour and Watt-hour Efficiency Test	(Cl. 7.8) IRS:S 88/
1303	ELECTRICAL- CELLS & BATTERIES	Low Maintenance Lead Acid Stationary Secondary Cells for S&T Installations	Endurance Test	(Cl. 7.7) IRS:S 88/
1304	ELECTRICAL- CELLS & BATTERIES	Low Maintenance Lead Acid Stationary Secondary Cells for S&T Installations	Equilibrium Float Current Test	(Cl. 7.13) IRS:S 88/
1305	ELECTRICAL- CELLS & BATTERIES	Low Maintenance Lead Acid Stationary Secondary Cells for S&T Installations	Loss of Water Test	(Cl. 7.12) IRS:S 88/
1306	ELECTRICAL- CELLS & BATTERIES	Low Maintenance Lead Acid Stationary Secondary Cells for S&T Installations	Storage Test	(Cl. 7.11) IRS:S 88/
1307	ELECTRICAL- CELLS & BATTERIES	Low Maintenance Lead Acid Stationary Secondary Cells for S&T Installations	Sulphation Test	(Cl. 7.14) IRS:S 88/
1308	ELECTRICAL- CELLS & BATTERIES	Low Maintenance Lead Acid Stationary Secondary Cells for S&T Installations	Test for Capacity	(Cl. 7.5) IRS:S 88/
1309	ELECTRICAL- CELLS & BATTERIES	Low Maintenance Lead Acid Stationary Secondary Cells for S&T Installations	Test for loss of capacity on storage	(Cl. 7.6) IRS:S 88/
1310	ELECTRICAL- CELLS & BATTERIES	Low Maintenance Lead Acid Stationary Secondary Cells for S&T Installations	Test for Voltage during Discharge	(Cl. 7.9) IRS:S 88/
1311	ELECTRICAL- CELLS & BATTERIES	Low Maintenance Lead Acid Stationary Secondary Cells for S&T Installations	Verification of dimensions	(Cl. 7.4) IRS:S 88/
1312	ELECTRICAL- CELLS & BATTERIES	Low Maintenance Lead Acid Stationary Secondary Cells for S&T Installations	Verification of marking and packing	(Cl. 7.3 & 4) IRS:S 88/





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1313	ELECTRICAL- CELLS & BATTERIES	Nickel Cadmium Batteries for Electric Locomotives	Ampere-hour and watt-hour efficiency	(Cl. 8.4) IS 13315: 1992 RA
1314	ELECTRICAL- CELLS & BATTERIES	Nickel Cadmium Batteries for Electric Locomotives	Capacity at 10-hour rate	(Cl. 8.2) IS 13315: 1992 RA
1315	ELECTRICAL- CELLS & BATTERIES	Nickel Cadmium Batteries for Electric Locomotives	Capacity at 5-hour rate	(Cl. 8.3) IS 13315: 1992 RA
1316	ELECTRICAL- CELLS & BATTERIES	Nickel Cadmium Batteries for Electric Locomotives	Checking of dimensions, marking and workmanship	(Cl. 5.1 (a)) IS 13315: 1992 RA
1317	ELECTRICAL- CELLS & BATTERIES	Nickel Cadmium Batteries for Electric Locomotives	Endurance test/life cycle test	(Cl. 8.6) IS 13315: 1992 RA
1318	ELECTRICAL- CELLS & BATTERIES	Nickel Cadmium Batteries for Electric Locomotives	Insulation Resistance Test	(Cl. 8.7) IS 13315: 1992 RA
1319	ELECTRICAL- CELLS & BATTERIES	Nickel Cadmium Batteries for Electric Locomotives	Material and component specification verification test	(Cl. 5.1 (b)) IS 13315: 1992 RA
1320	ELECTRICAL- CELLS & BATTERIES	Nickel Cadmium Batteries for Electric Locomotives	Retention of charge test	(Cl. 8.5) IS 13315: 1992 RA
1321	ELECTRICAL- CELLS & BATTERIES	Nickel Cadmium Batteries for Electric Locomotives	Storage test	(Cl. 8.9) IS 13315: 1992 RA
1322	ELECTRICAL- CELLS & BATTERIES	Sealed Nickel-Cadmium Button Type Rechargeable Single Cells	Dimensions and Weight	(Cl. 9.3) IS 10893: 1984 RA
1323	ELECTRICAL- CELLS & BATTERIES	Sealed Nickel-Cadmium Button Type Rechargeable Single Cells	Discharge Performance at High Temperature	(Cl. 9.11) IS 10893: 1984 RA
1324	ELECTRICAL- CELLS & BATTERIES	Sealed Nickel-Cadmium Button Type Rechargeable Single Cells	Discharge Performance at Low Temperature	(Cl. 9.10) IS 10893: 1984 RA
1325	ELECTRICAL- CELLS & BATTERIES	Sealed Nickel-Cadmium Button Type Rechargeable Single Cells	Life Cycle	(Cl. 9.12) IS 10893: 1984 RA
1326	ELECTRICAL- CELLS & BATTERIES	Sealed Nickel-Cadmium Button Type Rechargeable Single Cells	Overcharge Test	(Cl. 9.8) IS 10893: 1984 RA
1327	ELECTRICAL- CELLS & BATTERIES	Sealed Nickel-Cadmium Button Type Rechargeable Single Cells	Physical Examination	(Cl. 9.2 & 4) IS 10893: 1984 RA
1328	ELECTRICAL- CELLS & BATTERIES	Sealed Nickel-Cadmium Button Type Rechargeable Single Cells	Retention of Charge	(Cl. 9.9) IS 10893: 1984 RA
1329	ELECTRICAL- CELLS & BATTERIES	Sealed Nickel-Cadmium Button Type Rechargeable Single Cells	Storage Test	(Cl. 9.13) IS 10893: 1984 RA
1330	ELECTRICAL- CELLS & BATTERIES	Sealed Nickel-Cadmium Button Type Rechargeable Single Cells	Test for Capacity	(Cl. 9.7) IS 10893: 1984 RA
1331	ELECTRICAL- CELLS & BATTERIES	Sealed Nickel-Cadmium Button Type Rechargeable Single Cells	Test for Polarity and Short Circuit	(Cl. 9.5) IS 10893: 1984 RA
1332	ELECTRICAL- CELLS & BATTERIES	Sealed Nickel-Cadmium Button Type Rechargeable Single Cells	Verification of Marking and Packing	(Cl. 9.4 & 6) IS 10893: 1984 RA



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1333	ELECTRICAL- CELLS & BATTERIES	Secondary Batteries (Except Lithium) for Propulsion of Electric Road Vehicles	Dynamic Discharge Performance Test	(Cl. 6) IS 13514: 2015 RA:2017 IEC 61982
1334	ELECTRICAL- CELLS & BATTERIES	Secondary Batteries (Except Lithium) for Propulsion of Electric Road Vehicles	Dynamic Endurance Test	(Cl. 7) IS 13514: 2015 RA:2017 IEC 61982
1335	ELECTRICAL- CELLS & BATTERIES	Secondary Batteries (Except Lithium) for Propulsion of Electric Road Vehicles	Rated Capacity Test	(Cl. 5) IS 13514: 2015 RA:2017 IEC 61982
1336	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries containing alkaline or other non-acid electrolytes – Secondary Lithium Cells and Batteries for Portable Applications	Charge (Capacity) Recovery after long term storage	(Cl. 7.5) IS 16047:2012 IEC 61960
1337	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries containing alkaline or other non-acid electrolytes – Secondary Lithium Cells and Batteries for Portable Applications	Charge (Capacity) Retention and Recovery	(Cl. 7.4) IS 16047:2012 IEC 61960
1338	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries containing alkaline or other non-acid electrolytes – Secondary Lithium Cells and Batteries for Portable Applications	Discharge Performance at -20°C	(Cl. 7.3.2) IS 16047:2012 IEC 61960
1339	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries containing alkaline or other non-acid electrolytes – Secondary Lithium Cells and Batteries for Portable Applications	Discharge Performance at 20°C (Rated Capacity)	(Cl. 7.3.1) IS 16047:2012 IEC 61960
1340	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries containing alkaline or other non-acid electrolytes – Secondary Lithium Cells and Batteries for Portable Applications	Endurance in cycles	(Cl. 7.6) IS 16047:2012 IEC 61960
1341	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries containing alkaline or other non-acid electrolytes – Secondary Lithium Cells and Batteries for Portable Applications	High Rate Discharge Performance at 20°C	(Cl. 7.3.3) IS 16047:2012 IEC 61960
1342	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries containing alkaline or other non-acid electrolytes – Secondary Lithium Cells and Batteries for Portable Applications	Measurement of the internal d.c. resistance	(Cl. 7.7.3) IS 16047:2012 IEC 61960
1343	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries containing alkaline or other non-acid electrolytes – Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells, and Batteries made from them)	Charge (Capacity) Recovery after long term storage	(Cl. 7.5) IS 16047 (Part 3):2018 IEC 61960-3
1344	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries containing alkaline or other non-acid electrolytes – Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells, and Batteries made from them)	Charge (Capacity) Retention and Recovery	(Cl. 7.4) IS 16047 (Part 3):2018 IEC 61960-3
1345	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries containing alkaline or other non-acid electrolytes – Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells, and Batteries made from them)	Discharge Performance at -20°C	(Cl. 7.3.2) IS 16047 (Part 3):2018 IEC 61960-3



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1346	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries containing alkaline or other non-acid electrolytes – Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells, and Batteries made from them)	Discharge Performance at 20°C (Rated Capacity)	(Cl. 7.3.1) IS 16047 (Part 3):2018 IEC 61960-3
1347	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries containing alkaline or other non-acid electrolytes – Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells, and Batteries made from them)	Endurance in cycles	(Cl. 7.6) IS 16047 (Part 3):2018 IEC 61960-3
1348	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries containing alkaline or other non-acid electrolytes – Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells, and Batteries made from them)	High Rate Discharge Performance at 20°C	(Cl. 7.3.3) IS 16047 (Part 3) :2018 IEC 61960-3
1349	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries containing alkaline or other non-acid electrolytes - Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells, and Batteries made from them)	Measurement of the internal DC resistance	(Cl. 7.7.3) IS 16047 (Part 3):2018 IEC 61960-3
1350	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries containing alkaline or other non-acid electrolytes – Secondary Lithium Cells and Batteries for Portable Applications (Prismatic and Cylindrical Lithium Secondary Cells, and Batteries made from them)	Verification of Marking	(Cl. 5.2) IS 16047 (Part 3):2018 IEC 61960-3
1351	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications –Prismatic and cylindrical lithium secondary cells, and batteries made from them	Charge (Capacity) Recovery after long term storage	(Cl. 7.5) IEC 61960-3
1352	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications –Prismatic and cylindrical lithium secondary cells, and batteries made from them	Charge (Capacity) Retention and Recovery	(Cl. 7.4) IEC 61960-3
1353	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications –Prismatic and cylindrical lithium secondary cells, and batteries made from them	Discharge Performance at -20°C	(Cl. 7.3.2) IEC 61960-3
1354	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications –Prismatic and cylindrical lithium secondary cells, and batteries made from them	Discharge Performance at 20°C (Rated Capacity)	(Cl. 7.3.1) IEC 61960-3
1355	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications –Prismatic and cylindrical lithium secondary cells, and batteries made from them	Endurance in cycles	(Cl. 7.6) IEC 61960-3



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1356	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications –Prismatic and cylindrical lithium secondary cells, and batteries made from them	High Rate Discharge Performance at 20°C	(Cl. 7.3.3) IEC 61960-3
1357	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications –Prismatic and cylindrical lithium secondary cells, and batteries made from them	Measurement of the internal DC resistance	(Cl. 7.7.3) IEC 61960-3
1358	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications –Prismatic and cylindrical lithium secondary cells, and batteries made from them	Verification Marking	(Cl. 5.2) IEC 61960-3
1359	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for use in industrial applications	Charge (Capacity) retention and recovery	(Cl. 6.4) IEC 62620
1360	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for use in industrial applications	Discharge performance at +25°C	(Cl. 6.3.1) IEC 62620
1361	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for use in industrial applications	Discharge performance at low temperature	(Cl. 6.3.2) IEC 62620
1362	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for use in industrial applications	Endurance in cycles	(Cl. 6.6.1) IEC 62620
1363	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for use in industrial applications	Endurance in storage at constant voltage (permanent charge life)	(Cl. 6.6.2) IEC 62620
1364	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for use in industrial applications	High rate permissible current	(Cl. 6.3.3) IEC 62620
1365	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for use in industrial applications	Marking and designation	(Cl. 5) IEC 62620
1366	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for use in industrial applications	Measurement of internal d.c. resistance	(Cl. 6.5.3) IEC 62620
1367	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Cell designation	(Cl. 5.1) IS 15767: 2008 RA
1368	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Charge acceptance at constant voltage	(Cl. 7.5) IEC 62259:
1369	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Charge retention	(Cl. 7.3) IS 15767: 2008 RA



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1370	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Charge retention	(Cl. 7.3) IEC 62259:
1371	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Discharge performance at -18°C	(Cl. 7.2.3) IEC 62259:
1372	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Discharge performance at -18°C	(Cl. 7.2.3) IS 15767: 2008 RA
1373	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Discharge performance at 20°C	(cl. 7.2.1) IS 15767: 2008 RA
1374	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Discharge performance at 20°C	(Cl. 7.2.1) IEC 62259:
1375	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Discharge performance at 5°C	(Cl. 7.2.2) IEC 62259:
1376	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Discharge performance at 5°C	(Cl. 7.2.2) IS 15767: 2008 RA
1377	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Endurance in cycles	(Cl. 7.4.1) IEC 62259:
1378	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Endurance in cycles	(Cl. 7.4.1) IS 15767: 2008 RA
1379	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	High rate current test	(Cl. 7.2.4) IEC 62259:
1380	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	High rate current test	(Cl. 7.2.4) IS 15767: 2008 RA
1381	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Permanent charge endurance	(Cl. 7.4.2) IEC 62259
1382	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Permanent charge endurance	(Cl. 7.4.2) IS 15767: 2008 RA
1383	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Storage	(Cl. 7.10) IS 15767: 2008 RA



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1384	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Storage	(Cl. 7.10) IEC 62259:
1385	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Verification of Marking	(Cl. 5.3) IEC 62259:
1386	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Nickel-cadmium prismatic secondary single cells with partial gas recombination	Verification of Marking	(Cl. 5.3) IS 15767: 2008 RA
1387	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- portable sealed rechargeable single cells - Nickel-Cadmium	Charge (capacity) retention	(Cl. 7.3) IS 16048 (Part 1): 2021 RA :2018 IEC 61951-1
1388	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- portable sealed rechargeable single cells – Nickel-Cadmium	Charge Acceptance at +55°C for LT, MT or HT Cylindrical Cells	(Cl. 7.9) IS 16048 (Part 1): 2021 RA :2018 IEC 61951-1
1389	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- portable sealed rechargeable single cells – Nickel-Cadmium	Dimensions	(Cl. 6.1) IS 16048 (Part 1): 2021 RA :2018 IEC 61951-1
1390	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- portable sealed rechargeable single cells - Nickel-Cadmium	Discharge performance at -18°C	(Cl. 7.2.2) IS 16048 (Part 1): 2021 RA:2018 IEC 61951-1
1391	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- portable sealed rechargeable single cells – Nickel-Cadmium	Discharge performance at 20°C	(Cl. 7.2.1) IS 16048 (Part 1): 2021 RA :2018 IEC 61951-1
1392	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- portable sealed rechargeable single cells – Nickel-Cadmium	Discharge performance for rapid charge cells (R Cells)	(Cl. 7.2.3) IS 16048 (Part 1): 2021 RA :2018 IEC 61951-1
1393	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- portable sealed rechargeable single cells - Nickel-Cadmium	Endurance in cycles	(Cl. 7.4.1) IS 16048 (Part 1): 2021 RA :2018 IEC 61951-1
1394	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- portable sealed rechargeable single cells – Nickel-Cadmium	Measurement of internal d.c. resistance	(Cl. 7.10.2) IS 16048 (Part 1): 2021 RA :2018 IEC 61951-1
1395	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- portable sealed rechargeable single cells – Nickel-Cadmium	Overcharge	(Cl. 7.6) IS 16048 (Part 1): 2021 RA :2018 IEC 61951-1
1396	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- portable sealed rechargeable single cells – Nickel-Cadmium	Permanent Charge Endurance	(Cl. 7.4.2) IS 16048 (Part 1): 2021 RA :2018 IEC 61951-1
1397	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- portable sealed rechargeable single cells – Nickel-Cadmium	Storage	(Cl. 7.8) IS 16048 (Part 1): 2021 RA :2018 IEC 61951-1



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1398	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- portable sealed rechargeable single cells – Nickel-Cadmium	Verification of Marking	(Cl. 5.3) IS 16048 (Part 1): 2021 RA:2018 IEC 61951-1
1399	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Vented Nickel-Cadmium Prismatic Rechargeable Single Cells	Charge Acceptance at Constant Voltage	(Cl. 7.6) IEC 60623
1400	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Vented Nickel-Cadmium Prismatic Rechargeable Single Cells	Charge Retention	(Cl. 7.4) IEC 60623
1401	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Vented Nickel-Cadmium Prismatic Rechargeable Single Cells	Discharge Performance at +5°C	(Cl. 7.3.3) IEC 60623
1402	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Vented Nickel-Cadmium Prismatic Rechargeable Single Cells	Discharge Performance at -18°C	(Cl. 7.3.4) IEC 60623
1403	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Vented Nickel-Cadmium Prismatic Rechargeable Single Cells	Discharge Performance at 20°C	(Cl. 7.3.2) IEC 60623
1404	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Vented Nickel-Cadmium Prismatic Rechargeable Single Cells	Discharge Performance at High Temperature	(Cl. 7.3.6) IEC 60623
1405	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Vented Nickel-Cadmium Prismatic Rechargeable Single Cells	Discharge Performance at Low Temperature	(Cl. 7.3.5) IEC 60623
1406	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Vented Nickel-Cadmium Prismatic Rechargeable Single Cells	Endurance in Cycles	(Cl. 7.5.2) IEC 60623
1407	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Vented Nickel-Cadmium Prismatic Rechargeable Single Cells	High Rate Current Test	(Cl. 7.3.7) IEC 60623
1408	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Vented Nickel-Cadmium Prismatic Rechargeable Single Cells	Storage	(Cl. 7.9) IEC 60623
1409	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes- Vented Nickel-Cadmium Prismatic Rechargeable Single Cells	Verification of Marking	(Cl. 5.4) IEC 60623:
1410	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes-portable sealed rechargeable single cells - Nickel-Metal Hydride	Charge (capacity) retention	(Cl. 7.4) IS 16048 (Part 2):2021 IEC 61951-2
1411	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes-portable sealed rechargeable single cells - Nickel-Metal Hydride	Charge Acceptance at +55°C for LT, MT or HT Cylindrical Cells	(Cl. 7.11) IS 16048 (Part 2):2021 IEC 61951-2



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1412	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes-portable sealed rechargeable single cells - Nickel-Metal Hydride	Dimensions	(Cl. 6) IS 16048 (Part 2):2021 IEC 61951-2
1413	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes-portable sealed rechargeable single cells - Nickel-Metal Hydride	Discharge performance at 0°C	(Cl. 7.2.2) IS 16048 (Part 2):2021 IEC 61951-2
1414	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes-portable sealed rechargeable single cells - Nickel-Metal Hydride	Discharge performance at 20°C	(Cl. 7.3.2) IS 16048 (Part 2):2021 IEC 61951-2
1415	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes-portable sealed rechargeable single cells - Nickel-Metal Hydride	Discharge performance for rapid charge cells (R Cells)	(Cl. 7.3.4) IS 16048 (Part 2):2021 IEC 61951-2
1416	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes-portable sealed rechargeable single cells - Nickel-Metal Hydride	Endurance in cycles	(Cl. 7.5.1) IS 16048 (Part 2):2021 IEC 61951-2
1417	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes-portable sealed rechargeable single cells - Nickel-Metal Hydride	Measurement of internal d.c. resistance	(Cl. 7.12.3) IS 16048 (Part 2):2021 IEC 61951-2
1418	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes-portable sealed rechargeable single cells - Nickel-Metal Hydride	Overcharge	(Cl. 7.7) IS 16048 (Part 2):2021 IEC 61951-2
1419	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes-portable sealed rechargeable single cells - Nickel-Metal Hydride	Permanent Charge Endurance	(Cl. 7.5.2) IS 16048 (Part 2):2021 IEC 61951-2
1420	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes-portable sealed rechargeable single cells - Nickel-Metal Hydride	Storage	(Cl. 7.10) IS 16048 (Part 2):2021 IEC 61951-2
1421	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries containing alkaline or other non-acid electrolytes-portable sealed rechargeable single cells - Nickel-Metal Hydride	Verification of Marking	(Cl. 5.3) IS 16048 (Part 2):2021 IEC 61951-2
1422	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries for photovoltaic energy systems (PVES)- (Photovoltaic off-grid application)	Capacity Test	(Cl. 8.1 & 7.2) IEC 61427-1
1423	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries for photovoltaic energy systems (PVES)- (Photovoltaic off-grid application)	Capacity Test	(Cl. 8.1 & 7.2) IEC 61427-1:
1424	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries for photovoltaic energy systems (PVES)- (Photovoltaic off-grid application)	Charge Efficiency	(Cl. 5.2) IEC 61427-1
1425	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries for photovoltaic energy systems (PVES)- (Photovoltaic off-grid application)	Charge Efficiency	(Cl. 5.2) IEC 61427-1:
1426	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries for photovoltaic energy systems (PVES)- (Photovoltaic off-grid application)	Charge Retention Test	(Cl. 8.3 & 7.2) IEC 61427-1
1427	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries for photovoltaic energy systems (PVES)- (Photovoltaic off-grid application)	Charge Retention Test	(Cl. 8.3 & 7.2) IEC 61427-1



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1428	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries for photovoltaic energy systems (PVES)- (Photovoltaic off-grid application)	Cycling Endurance Test in Photovoltaic Application (Extreme Conditions)	(Cl. 8.4) IEC 61427-1
1429	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries for photovoltaic energy systems (PVES)- (Photovoltaic off-grid application)	Cycling Endurance Test in Photovoltaic Application (Extreme Conditions)	(Cl. 8.4) IEC 61427-1
1430	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries for photovoltaic energy systems (PVES)- (Photovoltaic off-grid application)	Generic cycling Endurance Test	(Cl. 8.2 & 7.2) IEC 61427-1
1431	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries for photovoltaic energy systems (PVES)- (Photovoltaic off-grid application)	Generic cycling Endurance Test	(Cl. 8.2 & 7.2) IEC 61427-1
1432	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries for photovoltaic energy systems (PVES)- (Photovoltaic off-grid application)	Generic cycling Endurance Test	(Cl. 8.2 & 7.2) IEC 61427-1
1433	ELECTRICAL- CELLS & BATTERIES	Secondary cells and batteries for photovoltaic energy systems (PVES)- (Photovoltaic off-grid application)	Verification of Marking	(Cl. 5.4) IEC 61427-1
1434	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Applications	Capacity Test	(Cl. 8.1 & 7.2) IS 16270
1435	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Applications	Capacity Test	(Cl. 8.1 & 7.2) IS 16270
1436	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Applications	Charge Retention Test	(Cl. 8.3 & 7.2) IS 16270
1437	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Applications	Charge Retention Test	(Cl. 8.3 & 7.2) IS 16270
1438	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Applications	Cyclic Endurance in Photovoltaic Application (Extreme Conditions)	(Cl. 8.4) IS 16270
1439	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Applications	Cyclic Endurance in Photovoltaic Application (Extreme Conditions)	(Cl. 8.4) IS 16270
1440	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Applications	Endurance Test	(Cl. 8.2 & 7.2) IS 16270
1441	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Applications	Endurance Test	(Cl. 8.2 & 7.2) IS 16270
1442	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Applications	Sulphation Test (Applicable for Lead Acid Batteries Only)	(Cl. 8.5) IS 16270
1443	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Applications	Verification of Marking	(Cl. 5.4) IS 16270
1444	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Applications	Verification of Marking	(Cl. 5.4) IS 16270
1445	ELECTRICAL- CELLS & BATTERIES	Secondary Cells and Batteries for Solar Photovoltaic Applications	Water Loss Test (Valid for Flooded Lead Acid Batteries Only)	(Cl. 8.6) IS 16270



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1446	ELECTRICAL- CELLS & BATTERIES	Small-sized valve regulated lead acid batteries	Capacity	(Cl. 7.1 & 5.1) JIS C 8702-1
1447	ELECTRICAL- CELLS & BATTERIES	Small-sized valve regulated lead acid batteries	Charge acceptance characteristics after deep discharge	(Cl. 7.6 & 5.6) JIS C 8702-1
1448	ELECTRICAL- CELLS & BATTERIES	Small-sized valve regulated lead acid batteries	Cycle service endurance	(Cl. 7.3 & 5.3) JIS C 8702-1
1449	ELECTRICAL- CELLS & BATTERIES	Small-sized valve regulated lead acid batteries	Endurance in trickle application	(Cl. 7.7 & 5.7) JIS C 8702-1
1450	ELECTRICAL- CELLS & BATTERIES	Small-sized valve regulated lead acid batteries	Endurance in trickle application at 40°C	(Cl. 7.8 & 5.8) JIS C 8702-1
1451	ELECTRICAL- CELLS & BATTERIES	Small-sized valve regulated lead acid batteries	High Rate Discharge Characteristics	(Cl.7.2 & 5.2) JIS C 8702-1
1452	ELECTRICAL- CELLS & BATTERIES	Small-sized valve regulated lead acid batteries	Maximum permissible current	(Cl.7.5 & 5.5) JIS C 8702-1
1453	ELECTRICAL- CELLS & BATTERIES	Small-sized valve regulated lead acid batteries	SHOCK RESISTANCE CHARACTERISTICS	CL.7.12 & 5.12 JIS C 8702-1
1454	ELECTRICAL- CELLS & BATTERIES	Small-sized valve regulated lead acid batteries	Storage Characteristics	(Cl. 7.4 & 5.4) JIS C 8702-1
1455	ELECTRICAL- CELLS & BATTERIES	Small-sized valve regulated lead acid batteries	Verification of Marking items, Verification of Marking of polarity	(Cl. 4.3 & 4.4) JIS C 8702-1
1456	ELECTRICAL- CELLS & BATTERIES	Stationary Cells and Batteries, Lead Acid Type (With Tubular Positive Plates)	Alternative Rates of Test Discharges	(Cl. 12.6) IS 1651: 2013 RA
1457	ELECTRICAL- CELLS & BATTERIES	Stationary Cells and Batteries, Lead Acid Type (With Tubular Positive Plates)	Ampere-hour and Watt-hour efficiency tests	(Cl. 12.9) IS 1651:2013 RA
1458	ELECTRICAL- CELLS & BATTERIES	Stationary Cells and Batteries, Lead Acid Type (With Tubular Positive Plates)	Endurance Test	(Cl. 12.8) IS 1651: 2013 RA
1459	ELECTRICAL- CELLS & BATTERIES	Stationary Cells and Batteries, Lead Acid Type (With Tubular Positive Plates)	Loss of capacity on storage	(Cl. 12.7) IS 1651:2013 RA
1460	ELECTRICAL- CELLS & BATTERIES	Stationary Cells and Batteries, Lead Acid Type (With Tubular Positive Plates)	Short Circuit and Internal Resistance Test	(Cl. 12.13) IS 1651: 2013 RA
1461	ELECTRICAL- CELLS & BATTERIES	Stationary Cells and Batteries, Lead Acid Type (With Tubular Positive Plates)	Test for capacity	(Cl. 12.5) IS 1651:2013 RA
1462	ELECTRICAL- CELLS & BATTERIES	Stationary Cells and Batteries, Lead Acid Type (With Tubular Positive Plates)	Test for Suitability of Floating Battery Operation	(Cl. 12.12) IS 1651: 2013 RA
1463	ELECTRICAL- CELLS & BATTERIES	Stationary Cells and Batteries, Lead Acid Type (With Tubular Positive Plates)	Test for voltage during discharge	(Cl. 12.10) IS 1651:2013 RA
1464	ELECTRICAL- CELLS & BATTERIES	Stationary Cells and Batteries, Lead Acid Type (With Tubular Positive Plates)	Verifcation of dimensions	(Cl. 12.4, 7.1 & 7.2) IS 1651:2013 RA





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1465	ELECTRICAL- CELLS & BATTERIES	Stationary Cells and Batteries, Lead Acid Type (With Tubular Positive Plates)	Verification of constructional requirements	(Cl. 12.2 & 6) IS 1651:2013 RA
1466	ELECTRICAL- CELLS & BATTERIES	Stationary Cells and Batteries, Lead Acid Type (With Tubular Positive Plates)	Verification of marking	(Cl. 12.3 & 8) IS 1651:2013 RA
1467	ELECTRICAL- CELLS & BATTERIES	Stationary Cells and Batteries, Lead Acid Type (With Tubular Positive Plates)	Water Loss Test	(Cl. 12.11) IS 1651: 2013 RA
1468	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type (With Tubular positive Plates)	ENDURANCE TEST	CL.11.7 IS: 13369: 1992 RA
1469	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type (With Tubular positive Plates)	EQUILIBRIUM FLOAT CURRENT TEST	CL.11.10 IS: 13369: 1992 RA
1470	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type (With Tubular positive Plates)	Test for capacity	CL.11.5 IS: 13369: 1992 RA
1471	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type (With Tubular positive Plates)	Test for loss of capacity on storage/ Retention of charge	CL.11.6 IS: 13369: 1992 RA
1472	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type (With Tubular positive Plates)	Verification of constructional requirements	CL.11.2 & 6 IS: 13369: 1992 RA
1473	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type (With Tubular positive Plates)	Verification of dimensions	CL.11.4 &7.1 IS: 13369: 1992 RA
1474	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type (With Tubular positive Plates)	Verification of marking and packing	CL.11.3 & 8 IS: 13369: 1992 RA
1475	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type (With Tubular positive Plates)	WATER LOSS TEST	CL.11.9 IS: 13369: 1992 RA
1476	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type (With Tubular positive Plates)/Lithium ion traction battery packs and systems	Ampere-hour and watt-hour efficiency tests	IS 13369/1992 RA 2017,IS 1651/2013 RA2018, ISO 12405 (Part 4) 2018
1477	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type With Plante positive Plates	ALTERNATE RATED TEST DISCHARGE	CL.10.7 IS: 1652: 2013 RA
1478	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type With Plante positive Plates	Ampere-hour and watt-hour efficiency tests	CL.10.10 IS: 1652: 2013 RA
1479	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type With Plante positive Plates	ENDURANCE TEST	CL.10.9 IS: 1652: 2013 RA
1480	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type With Plante positive Plates	LOSS OF WATER TEST	CL.10.12 IS: 1652: 2013 RA
1481	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type With Plante positive Plates	SHORT CIRCUIT CURRENT AND INTERNAL RESISTANCE TEST	CL.10.14 IS: 1652: 2013 RA
1482	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type With Plante positive Plates	Test for capacity	CL.10.6 IS: 1652: 2013 RA
1483	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type With Plante positive Plates	Test for loss of capacity on storage	CL.10.8 IS: 1652: 2013 RA
1484	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type With Plante positive Plates	Test for voltage during discharge	CL.10.11 IS: 1652: 2013 RA



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1485	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type With Plante positive Plates	TEST OF SUITABILITY OF FLOATING BATTERY OPERATION	CL.10.13 IS: 1652: 2013 RA
1486	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type With Plante positive Plates	Verification of constructional requirements	CL.10.4.1a& 5 IS: 1652: 2013 RA
1487	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type With Plante positive Plates	Verification of dimensions	CL.10.4.1c & 6.1 IS: 1652: 2013 RA
1488	ELECTRICAL- CELLS & BATTERIES	Stationary cells and Batteries, Lead-Acid type With Plante positive Plates	Verification of marking	CL.10.4.1b & 7 IS: 1652: 2013 RA
1489	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries – Vented Types	Capacity Test	(Cl. 7 & 14) IEC 60896-11
1490	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries – Vented Types	Charge Retention test	(Cl. 10 & 18) IEC 60896-11
1491	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries – Vented Types	Endurance in discharge-charge cycles	(Cl. 9.1 & 16) IEC 60896-11
1492	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries - Vented Types	Endurance in overcharge	(Cl. 9.2 & 17) IEC 60896-11
1493	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries – Vented Types	Short-circuit current and internal resistance determination	(Cl. 11 & 19) IEC 60896-11
1494	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries – Vented Types	Test of suitability for floating battery operation	(Cl. 8 & 15) IEC 60896-11
1495	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries – Vented Types	Verification of Cell and battery markings	(Cl. 21) IEC 60896-11
1496	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries – Vented Types	Verification of marking of polarity	(Cl. 24) IEC 60896-11
1497	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries: Valve regulated types	Abusive over-discharge	(Cl. 6.17) IEC 60896-21
1498	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries: Valve regulated types	Charge retention during storage	(Cl. 6.12) IEC 60896-21
1499	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries: Valve regulated types	Content and durability of required marking	(Cl. 6.6) IEC 60896-21
1500	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries: Valve regulated types	Discharge capacity	(Cl. 6.11) IEC 60896-21
1501	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries: Valve regulated types	Float service with daily discharges	(Cl. 6.13) IEC 60896-21
1502	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries: Valve regulated types	High current tolerance	(Cl. 6.2) IEC 60896-21
1503	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries: Valve regulated types	Recharge behaviour	(Cl. 6.14) IEC 60896-21





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1504	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries: Valve regulated types	Service life at an operating temperature of 40°C	(Cl. 6.15) IEC 60896-21
1505	ELECTRICAL- CELLS & BATTERIES	Stationary lead-acid batteries: Valve regulated types	Short-circuit current and d.c. internal resistance	(Cl. 6.3) IEC 60896-21
1506	ELECTRICAL- CELLS & BATTERIES	Stationary Valve Regulated Lead Acid Batteries	Voltage during C10 Discharge test	(Cl. 12.1.1) IS 15549:2005 RA
1507	ELECTRICAL- CELLS & BATTERIES	Stationary Valve regulated Lead-Acid Batteries	AMPERE HOUR EFFICIENCY	CL.12.4 IS 15549: 2005 RA
1508	ELECTRICAL- CELLS & BATTERIES	Stationary Valve regulated Lead-Acid Batteries	Capacity test at other discharge rates	(Cl. 12.3) IS 15549: 2005 RA
1509	ELECTRICAL- CELLS & BATTERIES	Stationary Valve regulated Lead-Acid Batteries	CHECKING DIMENSIONS AS PER MANUFACTURER'S DRAWING	CL.10.1.1 (b) IS 15549: 2005 RA
1510	ELECTRICAL- CELLS & BATTERIES	Stationary Valve regulated Lead-Acid Batteries	Endurance Life Cycle Test	(Cl. 12.10) IS 15549: 2005 RA
1511	ELECTRICAL- CELLS & BATTERIES	Stationary Valve regulated Lead-Acid Batteries	Test for C1 Capacity	(Cl.12.2) IS 15549: 2005 RA
1512	ELECTRICAL- CELLS & BATTERIES	Stationary Valve regulated Lead-Acid Batteries	Test for C10 Capacity	CL.12.1 IS 15549: 2005 RA
1513	ELECTRICAL- CELLS & BATTERIES	Stationary Valve regulated Lead-Acid Batteries	TEST FOR RETENTION OF CHARGE	CL.12.6 IS 15549: 2005 RA
1514	ELECTRICAL- CELLS & BATTERIES	Stationary Valve regulated Lead-Acid Batteries	VISUAL EXAMINATION	CL.10.1.1 (a), 4.1 to 4.9 and 8.1 IS 15549: 2005 RA
1515	ELECTRICAL- CELLS & BATTERIES	Stationary Valve regulated Lead-Acid Batteries	WATT HOUR EFFICIENCY	CL.12.5 IS 15549: 2005 RA
1516	ELECTRICAL- CELLS & BATTERIES	Vented Type Nickel Cadmium Batteries	Ampere-Hour and Watt-Hour Efficiency Tests	(Cl. 10.13) IS 10918: 1984 RA
1517	ELECTRICAL- CELLS & BATTERIES	Vented Type Nickel Cadmium Batteries	Ampere-hour Capacity	(Cl. 10.7) IS 10918: 1984 RA
1518	ELECTRICAL- CELLS & BATTERIES	Vented Type Nickel Cadmium Batteries	Dimensions, Mass and Layout	(Cl. 10.3) IS 10918: 1984 RA
1519	ELECTRICAL- CELLS & BATTERIES	Vented Type Nickel Cadmium Batteries	Discharge Performance at Low Temperature	(Cl. 10.9) IS 10918: 1984 RA
1520	ELECTRICAL- CELLS & BATTERIES	Vented Type Nickel Cadmium Batteries	Insulation Resistance Test	(Cl. 10.11) IS 10918: 1984 RA
1521	ELECTRICAL- CELLS & BATTERIES	Vented Type Nickel Cadmium Batteries	Life Cycle Test	(Cl. 10.10) IS 10918: 1984 RA
1522	ELECTRICAL- CELLS & BATTERIES	Vented Type Nickel Cadmium Batteries	Physical Examination	(Cl. 10.2 & 3) IS 10918: 1984 RA
1523	ELECTRICAL- CELLS & BATTERIES	Vented Type Nickel Cadmium Batteries	Polarity	(Cl. 10.5) IS 10918: 1984 RA



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1524	ELECTRICAL- CELLS & BATTERIES	Vented Type Nickel Cadmium Batteries	Retention of Charge	(Cl. 10.8) IS 10918: 1984 RA
1525	ELECTRICAL- CELLS & BATTERIES	Vented Type Nickel Cadmium Batteries	Storage Test	(Cl. 10.12) IS 10918: 1984 RA
1526	ELECTRICAL- CELLS & BATTERIES	Vented Type Nickel Cadmium Batteries	Verification of Marking	(Cl. 10.4, 4 & 6) IS 10918: 1984 RA
1527	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling Type fans	Interchangeability	(Cl. 12) IS 374
1528	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling Type fans	Performance Requirements	(Cl. 15) IS 374
1529	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling Type fans	Power Input	Cl. 10 of IS 302 (Part 2 /Sec 80) Cl. 18.2, Table 2(viii), IS 374
1530	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling Type fans	Safety Requirements (Protection against access to live parts, Starting, Power Input and Current, Heating, Leakage Current & Electric Strength, Transient Over voltage, Mechanical Strength, Provision for earthing, Clearance & Creepage distance)	(Cl. 9) IS 374
1531	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling Type fans	Silent Operation	(Cl. 13) IS 374
1532	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling Type fans	Speed and power factor	(Cl. 14.4 & 14.5) IS 374
1533	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling Type fans	Speed Regulators	(Cl. 10) IS 374
1534	ELECTRICAL- DOMESTIC ELECTRICAL APPLIANCES	Electric Ceiling Type fans	Starting	(Cl. 11) IS 374
1535	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter	Conformance test	IS 15959 (Part 1): 2011 / IS / IEC 62056 (DLMS / COSEM)-2005



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1536	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Metering Equipment	Impulse Voltage test	Cl.7.3.2 of IEC 62052-11- 2003 Amd1-2016 / IEC 62052-11-2020 / Cl.7.7 of IEC 62055-31-2005 Amd1-2016 / IEC 62052-31-2015 / Cl.7.4 of IEC 62053-11- 2003 Amd1-2016 / Cl.7.4 of IEC 62053-21 -2003 Amd1-2016 / Cl.7.4 of IEC 62053-22- 2003 Amd1-2016 /Cl.7.4 of IEC 62053-23 -2003 Amd1-2016 /Cl.7.4 of IEC 62053-24-2014 Amd1-2016 / Cl.12.7.6.2 of IS 13779-2020 / Cl.12.7.6.2 of IS 14697-2021
1537	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Sub harmonics in ac current circuit	IEC 62052-11- 2003 Amd1-2016 / IEC 62053-21-2020 / Cl.8.2 of IEC 62053-21- 2003 Amd1-2016 / Cl.8.2 of IEC 62053-22- 2003 Amd 1 -2016 / IEC 62053-22 -2020 / IEC 62053-24 -2014 Amd1-2016 / Cl.8 of IEC 62055-31-2005
1538	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Direct Connected Watthour Smart Meter Class 1 and Class 2	Smart Meter Functional Requirements	Cl.11 of IS 16444 (Part 1)- 2015 Amd 1 -2017 Amd 2 -2019
1539	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Direct Connected Watthour Smart Meter Class 1 and Class 2	Test for Data Exchange Protocol	Cl.10.5 of IS 16444 (Part 1)- 2015 Amd 1 -2017 Amd 2 -2019
1540	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Direct Connected Watthour Smart Meter Class 1 and Class 2	Test for Smart Meter Communicability	Cl.10.6 of IS 16444 (Part 1)- 2015 Amd 1 -2017 Amd 2 -2019
1541	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour and Var - Hour Smart Meters, 0.2S, 0.5S and 1.0S Part 2 Transformer Operated Smart Meters	Smart Meter Functional Requirements	Cl No 10 of IS 16444 (Part 2)-2017
1542	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour and Var - Hour Smart Meters, 0.2S, 0.5S and 1.0S Part 2 Transformer Operated Smart Meters	Test for Smart Meter Communicability	Cl No 9.5 of IS 16444 (Part 2)-2017
1543	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour and Var - Hour Smart Meters, 0.2S, 0.5S and 1.0S Part 2 Transformer Operated Smart Meters	Test for Data Exchange Protocol	Cl No 9.4 of IS 16444 (Part 2)-2017



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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
1544	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S	Insulation Resistance test	IS 16444(Part 1):2015 , Amd1 cl.6.10.6, IS 16444(Part 2):2017 cl.6.10.6 CBIP Publication No: 325: cl.5.4.6.4-2015
1545	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.25, 0.55 & 1.05	Abnormal a.c magnetic induction of external origin(0.2T)	(Withdrawn Standard) CBIP manual 304-2008
1546	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2	Stray & Abnormal a.c magnetic induction of external origin(0.5mT & 10mT)	Cl.12.11 of IS 13779-1999, Amd 1 to 5 / Cl.12.11 of IS 13779-2020 / Cl.12.10 of IS 14697-1999, Amd 1 to 4 / Cl 12.10 of IS 14697-2021 / Cl.5.6.2, 4.6.3 of CBIP Publication No: 325-2015 / Cl.4.6.2 of IS 15884-2010 / Cl.6.12 of IS 16444(Part 1)-2015,Amd1 / Cl.6.12 of IS 16444(Part 2) -2017
1547	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S, 0.5S and 1.0S AC watthour meters, class 0.5, 1 & 2 Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2) CBIP guide on Static Energy meter- No.325	DC & Even harmonics in AC current circuit / DC component in the AC current circuit	Cl.12.11 of IS 13779-1999 Amd1- 5 / Cl.8.2 of IS 13779-2020 / IEC 62052-11-2003,Amd1 / IEC 62052-2020 / IEC 62053-21-2003,Amd1 / Cl.8.3 of IEC 62053-21-2020 / IEC 62053-24-2014,Amd1 / Cl.8.3 of IEC 62055-31-2005,Amd1 / Cl.5.6.2, 4.6.3 of CBIP No: 325-2015 / Cl.4.6.2 IS 15884-2010/ Cl.6.12 of IS S16444(part1&2)-2019



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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
1548	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.2S, 0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Dry heat test	IS 13779: 1999, Amd1-5 cl.12.6.1, IS 13779:2020, IS 14697: 1999, Amd:1-4 cl.12.6.1,IS 14697:2021, IEC 62052-11: 2003, Amd1 cl.6.3.1, IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22: 2003, Amd1,IEC 62053-22:2020, IEC 62053-23 :2003, Amd1 cl.6, IEC 62053-23:2020, IEC 62053-24 :2014, Amd1 cl.6 IEC: 62055-31 :2005, Amd1 cl.6.0 EBIP No: 325:2015 cl.5.3.1 IS 15884 :2010,cl.5.3.1 IS 16444(Part 1):2015, Amd1 cl.6.9 IS 16444(Part 2): 2017 cl.6.9 Amd1-2019
1549	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S	Continuous abnormal d.c magnetic induction of external origin(0.2/0.27T)	IS 13779: 1999 cl.12.11,Amd1-5,IS 13779:2020, IS 14697: 1999 cl.12.10, Amd 1- 4,IS 14697:2021, CBIP No: 325:2015 cl.5.6.2,4.6.3 IS 15884 :2010,cl.4.6.2, IS 16444(Part 1):2015 cl.6.12,Amd1-2, IS 16444(Part 2):2017 cl.6.12 Amd1-2019
1550	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.2S, 0.5S and 1.0S energy (Classes 1 & 2) Static meters for active energy (Classes 2 & 0.5S) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Damp heat cyclic test	IS 13779: 1999, Amd1-5 cl.12.6.3,IS 13779:2020, IS 14697: 1999, Amd1-4 cl.12.6.3,IS 14697:2021, IEC 62052-11: 2003, Amd1 cl.6.3.3IEC 62052-11:2020, IEC 62053-21: 2003, Amd1IEC 62053-21:2020, IEC 62053-22: 2003, Amd1, IEC 62053-22:2020, IEC 62053-23 :2003, Amd1 cl.6, IEC 62053-23:2020, IEC: 62053-24 :2014, Amd1 cl.6 IEC: 62055-31 :2005, Amd1 cl.6. BIP No: 325:2015 cl.5.3.3 IS 15884 :2010, cl.5.3.3 IS 16444(Part 1):2015, Amd1 cl.6.9 IS 16444(Part 2):2017 Amd1 cl.6.9-2019



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1551	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.25, 0.55 & 1.05 AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.25,0.55 and 1.05 Static meters for active energy (Classes 1 & 2) Static meters for reactive energy (Classes 0.25 & 0.55) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Cold test	IS 13779: 1999, Amd1-5 cl.12.6.2,IS 13779:2020, IS 14697: 1999, Amd:1 -4 cl.12.6.2,IS 14697:2021, IEC 62052-11: 2003, Amd1 cl.6.3.2, IEC 62052-11:2020,IEC 62053-21: 2003, Amd1, IEC 62053-21:2020, IEC 62053-22: 2003, Amd1,IEC 62053-22:2020, IEC 62053-23 :2003, Amd1 cl.6, IEC 62053-23:2020, IEC 62053-24 :2014,Amd1 cl.6 IEC 62055-21:2015, CBIP No: 325:2015 cl.5.3.2 IS 15884 :2010,cl5.3.2 IS 16444(Part 1):2015, Amd1 cl.6.9 IS 16444(Part 2):2017 cl.6.9 - Amd1 -2019
1552	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.2S, 0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Immunity to Earth/phase fault/Abnormal voltage condition	IS 13779: 1999, Amd1-5 cl.12.8,IS 13779:2020, IS 14697: 1999, Amd 1-4 cl.12.17,IS 14697:2021,IEC 62052-11: 2003, Amd1 cl.7.4 ,IEC 62052-11:2020,IEC 62053-24 :2014,Amd1, IEC 62055-31 :2005,Amd1 cl.7.2.3, CBIP No: 325:2015, cl.4.4.7, IS 16444(Part 1):2015 Amd1-2 cl.6.10.7, IS 16444(Part 2):2017 cl.6.10.7-Amd1 -2019
1553	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S	AC High voltage test	IS 13779: 1999 Amd1-5, cl.12.7.6.3,IS 13779:2020, IS 14697: 1999 Amd1-4, cl.12.7.6.3, IS 14697:2021,IS 15884 :2010 cl.5.4.6.3 IS 16444(Part 1):2015 cl.6.10.6,Amd1 IS 16444(Part 2): cl.6.10.6-2017,Amd1-2019
1554	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.25, 0.55 & 1.05 AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.25,0.55 and 1.05 AC watthour meters,class 0.5,1 & 2	Test of Repeatability of error	IS 13779: 1999,cl.12.17,Amd1 to 5, IS 13779:2020, Cl 12.17, IS 14697: 1999,cl.12.16, Amd 1 to 4, IS 14697:2021,Cl12.16, IS 15884 :2010cl.5.6.7 IS 16444(Part 1):2015 cl.6.12,Amd1 IS 16444(Part 2):2017 cl.6.12,IEC 62052-11:2020, CBIP Publication No: 325: cl.5.6.9-2015



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1555	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.25, 0.55 & 1.05 AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.25,0.55 and 1.05 AC watthour meters,class 0.5,1 & 2 Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.25 & 0.55) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Power consumption test / Power loss	IS 16444 (part 1 and 2), Cl.12.7.1 of IS 13779-1999 Amd 1-5 / Cl.12.7.1 of IS 13779-2020 / Cl.12.7.1 of IS 14697-1999 Amd1-4 / Cl.12.7.1 of IS 14697-2021 / IEC 62052-11- 2003 Amd1-2016 / Cl.7.1 of IEC 62053-11- 2003 Amd1-2016 / Cl.7.1 of IEC 62053-21- 2003 Amd1-2016 / IEC 62053-22- 2003 Amd1-2016 / IEC 62053-22-2002 / Cl.7.1 of IEC 62053-22-2003 Amd1-2016 / IEC 62053-23-2003 Amd1-2016 / IEC 62053-23-2003 Amd1-2016 / IEC 62053-23-2000 / Cl.7.2 of IEC 62053-24 -2014 Amd1-201
1556	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S and 1.0S AC watthour A Pour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2	Impulse Voltage test	cl.11.10.2 IS13779:1999 Amd1 to 5 cl.12.7.6.2 IS 14697:1999 Amd 1 to 4 cl.12.7.6.2, IS 15884 :2010,cl.5.4.6.2 IS 16444(Part 1):2015 ,cl.6.10.6,Amd1 IS 16444(Part 2):2017 cl.6.10.6, CBIP Publication No: cl.5.4.6.2 of 325:2015
1557	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.25, 0.55 & 1.05 AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.25, 0.55 and 1.05 AC watthour meters, class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for reactive energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Test of ambient temperature influence / Limits of error due to Ambient temperature Variation	cl.11.11,IS 13779:1999, cl.12.12,Amd1 to 5, IS 13779:2020, IS 14697:1999 ,cl.12.11,Amd: 1 to 4,IS 14697:2021, IEC: 62052-11, 2003,Amd1, IEC 62-11:2020,IEC: 62053-11, 2,Amd 1,cl.8.2. IEC: 62053-21, 2003,cl.8.2,Amd1,IEC 62053-21:2020, IEC: 62053-22, 2003,cl.8.2,Amd1,IEC 62053-22:2020, IEC: 62053-23 ,2003,cl.8.2,Amd1IEC 62053-23:2020, IEC: 62053-24 ,2014,Amd1cl.8.3 IEC: 62055-31,2005, cl.8 CBIP No: 325:2015 cl.5.6.3 IS 15884 :2010cl.4.6.3 IS 16444(P-2)-2017



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1558	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 2 & 0.5S) Static meters for reactive energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Test of Meter constant	cl.11.6 IS 13779: 1999,cl.12.15, Amd1-5, IS 13779:2020, IS 14697: 1999 ,cl.12.14, Amd 1-4, IS 14697:2021, IEC: 62052-11, 2003,Amd1,IEC 62052-11:2020, IEC: 62053-11, 2003,Amd1,IEC 62053-21,cl.8.4, 2003,Amd1,IEC 62053-21:2020, IEC: 62053-22, 2003,cl.8.4,Amd1,IEC 62053-22:2020, IEC: 62053-23 ,2003,Amd1,cl.8.4 IEC 62053-23:2020,IEC: 62053-24 ,2014,Amd1cl.8.5 IEC: 62055-31, 2005, Cl.8 CBIP No: 325:2015 cl.5.6.6 IS 15884 :2010cl.5.6.5 IS 16444(Part -2)-2017
1559	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.2S, 0.5S and 1.0S AC watthour meters, class 0.5, 1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5, 1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for reactive energy (Classes 0.2S & 0.5S) Static meters for reactive energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Verification of Test results	IS 13779: 1999,cl.12.1,Amd1 t-5,IS 13779:2020, IS 14697: 1999 Amd 1-4, cl.12.15, IS 14697:2021, IEC: 62052-11, 2003,Amd1 IEC: 62053-11, 2003, Amd1cl.8.6 IEC: 62053-21, 2003 Amd 1 cl.8.6, IEC 62053-21:2020, IEC: 62053-22, 2003,Amd1 cl.8.6,IEC 62053-22:2020, IEC: 62053-23, 2003,cl.8.6,Amd1, IEC 62053-23:2020, IEC: 62053-24, 2014,Amd1,cl.8.7 IEC: 62055-31, 2005 cl.8 CBIP No: 325:2015 IS 15884 :2010,cl.5.6.6 IS 16444(Part 1):2015 cl.6.12,Amd-1-2-2017
1560	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters, class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 2 & 0.5S) Static meters for reactive energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	General & constructional requirements / General requirements	ClNo. I.6.0 of IS 13779-1999, Amd 1-5 / IS 13779-2020 / Cl. No. 5.0 to 6.0 of IS 14697-1999, Amd 1-4 / IS 14697-2021 / Cl. No. I 5.3 to 5.7 of IEC 62052-11-2003, Amc 1 / IEC 62052-11-2020 / IEC 62053-11-2003, Amd 1 / IEC 62053-21-2003,Amd1-2016



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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
1561	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.25, 0.55 & 1.05 AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.25,0.55 and 1.05 AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.25 & 0.55) Static meters for reactive energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Influence of Heating	cl.11.9, IS 13779: 1999,Amd1 t-5, cl.12.7.5, IS 13779:2020, IS 14697: 1999,Amd:1-4, cl.12.7.5, IS 14697:2021, IEC: 62052-11, 2003, Amd1,cl.7.2, IEC 62052-11:2020, IEC: 62053-11, 2003,Amd1, IEC: 62055-31, 2005, cl.7.5BIP No.: 325:2015 cl.5.4.5 IS 15884 :2010,cl.5.4.5 IS 16444(Part 1):2015,Amd1 cl.6.10.5 IS 16444(Part 2): cl.6.10.5-2017
1562	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.2S, 0.5S and 1.0S AC watthour meters, class 0.5, 1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5, 1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 2 & 0.5S) Static meters for reactive energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Influence of self heating	/ Cl.12.7.4 of IS 13779-1999,Amd1-5 /IS 13779-2020 / Cl.12.7.4 of IS 14697-1999,Amd:1 to 4 / IS 14697-2021 / Cl.7.3 of IEC 62052-11-2003,Amd1 / CBIP No.325-2015 /IEC 62052-11-2020 / IEC 62053-11-2003,Amd1 / IEC 62053-21-2003, Amd1-2016
1563	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 1.6 2) Static meters for active energy (Classes 1.6 2.) Static meters for reactive energy (Classes 2.6 0.5S) Static meters for reactive energy (Classes 2.6 3.) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Voltage Unbalance	/ Cl.12.11 of IS 13779-1999 Amd1-5 / IS 13779-2020 / Cl.12.10 of IS 14697-1999 Amd1-4 / IS 14697-2021 / IEC 62052-11-2003 Amd1-2016 / IEC 62053-11-2003 Amd1-2016 / Cl.8.2 of IEC 62053-21-2003 Amd1-2016 / IEC 62053-21-2020 / Cl.8.2 of IEC 62053-22-2003 Amd1-2016 / IEC 62053-22-2003 Amd1-2016 / IEC 62055-31-2005 Amd1-2016 / Cl.5.6.2 of CBIP No 325 -2015 / Cl.4.6.2 of IS 15884-2010 / Cl.6.12 of IS 16444(Part 1)-2015 ,Amd1-2017 Amd 2-2019



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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
1564	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for reactive energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Short time overcurrent Test Effect of Short time overcurrent	/ Cl.12.7.3 of IS 13779-1999, Amd 1 -5/ IS 13779-2020 / Cl.12.7.3 of IS 14697-1999, Amd:1 to 4 / IS 14697-2021 / Cl.7.2 of IEC 62052-11-2003,Amd 1 / IEC 62052-11-2003,Amd1 / CBIP No.325-2015 / Cl.7.2, of IEC 62053-21-2003, Amd1-2016 / IS 15884-2010 / IS 16444(Part-1)-2015 & (Part-2))-2017
1565	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.25, 0.55 & 1.05 AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.25, 0.55 and 1.05 AC watthour meters, class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.25 & 0.55) Static meters for active energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Spring Hammer test/Mechanical test of meter case	IS 13779: 1999, Amd1-5, cl.12.3.3,IS 13779:2020, IS 14697: 1999, Amd 1- 4,cl.12.3.3, IS 14697:2021, IEC: 62052-11: 2003,Amd1 cl.5.2.2.1,IEC 62052-11:2020, IEC: 62053-21: 2003, Amd1,IEC 62053-21:2020, IEC: 62053-22: 2003, Amd1IEC 62053-22:2020, IEC: 62053-23 :2003, ,Amd1,IEC62053-23:2020, IEC: 62053-24;2014,Amd1cl.5 IEC: 62055-31;2005,Amd1, IEC 62052-31:2015, CBIP No: 325:2015 cl.5.2.1 IS 15884 :2010,cl.5.2.1 IS 16444(Part 1):2015, Amd1 cl.6.5 IS 16444(Part-2)-2017
1566	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.25, 0.55 & 1.05 AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.25,0.55 and 1.05 AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 2 & 0.55) Static meters for reactive energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Test of Resistance to heat & fire	IS 13779: 1999,Amd1-5 cl.12.4,IS 13779:2020, IS 14697: 1999, Amd 1 -4 cl.12.4, IS 14697:2021, IEC: 62052-11: 2003,Amd1 cl.5.8, IEC 62052-11:2020,IEC 62052-31:2015,IEC: 62053-21: 2003, Amd1, IEC 62053-21-2020, IEC: 62053-22: 2003, Amd1,IEC 62053-22:2020, IEC: 62053-23 :2003, Amd1,IEC 62053-23:2020, IEC: 62053-24 :2014,Amd1 cl.5 IEC: 62055-31 :2005,Amd1 CBIP No: 325:2015 cl.5.2.4 IS 15884 :2010,cl.5.2.4 IS 16444(Part 1):2015, Amd1 cl 6 5 16444(Part 2):2017


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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
1567	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters, class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for reactive energy (Classes 0.2S & 0.5S) Static meters for reactive energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Verification of Marking of meters	,cl.8,9, IS 13779: 1999,Amd1-5, cl.7.0,IS 13779:2020, IS 14697: 1999, Amd 1 -4 cl.7.0,IS 14697:2021, IEC: 62052-11: 2003, Amd1 cl.5.10 to 5.12, IEC 62052-11:2020, IEC: 62053-21: 2003,Amd1, IEC 62053-21: 2003,Amd1,IEC 62053-21:2020, IEC: 62053-22: 2003,Amd1,IEC 62053-22:2020, IEC: 62053-23 :2003,Amd1,IEC 62053-23:2020, IEC: 62053-24 :2014,Amd1 IEC: 62055-31 :2005,Amd1 CBIP No: 325:2015,cl.4.2.2.11, IS 15884 :2010,cl.4.2.11 IS 16444(Part 1):2015,Amd1-2017
1568	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for ractive energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Limits of Error due to other influence quantities/ Test of influence quantities -Frequency variation	/ Cl.12.11 of IS 13779-1999 Amd1-5 / IS 13779-2020 / Cl.12.10 of IS 14697-1999 Amd1 to Amd 4 / IS 14697-2021 / IEC 62052-11-2003 Amd1-2016 / IEC 62052-11-2020 / IEC 62053-11-2003 Amd1-2016 / Cl.8.2 of IEC 62053-21-2003 Amd1-2016 / IEC 62053-21-2020 / Cl.8.2 of IEC 62053-22-2003 Amd1-2016 / IEC 62053-22-2003 Amd1-2016 / IEC 62053-22-2003 Amd1-2016 / Cl.5.6.2 of CBIP No 325 -2015 / Cl.4.6.2 of IS 15884-2010 / Cl.6.12 of IS 16444(Part 1)-2015 ,Amd 1-2 / IS 16444(part2



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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
1569	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.25, 0.55 & 1.05 AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.25,0.55 and 1.05 AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Limits of Error due to other influence quantities/ Test of influence quantities : Voltage variation	/ Cl.12.11 of IS 13779-1999 Amd1-5 / IS 13779-2020 / Cl.12.10 of IS 14697-1999 Amd1-4 / IS 14697-2021 / IEC 62052-11-2003 Amd1-2016 / IEC 62052-11-2020 / IEC 62053-11-2003 Amd1-2016 / Cl.8.2 of IEC 62053-21-2003 Amd1-2016 / IEC 62053-22-2003 Amd1-2016 / IEC 62053-22-2020 / Cl.8.2 of IEC 62053-31-2005 Amd1-2016 / IEC 62053-22-2020 / IEC 62055-31-2005 Amd1-2016 / Cl.5.6.2 of CBIP No 325 -2015 / Cl.4.6.2 of IS 15884-2010 / Cl.6.12 of IS 16444(Part 1)-2015 ,Amd1-2 / IS16444(part2) 2017,
1570	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S, 0.5S and 1.0S AC watthour meters, class 0.5, 1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5, 1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 2 & 0.5S) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Reversed phase sequence	Cl.12.11 of IS 13779-1999 Amd1-5 / IS 13779-2020 / Cl.12.10 of IS 14697-1999 Amd1-4 / IS 14697-2021 / IEC 62052-11-2003 Amd1-2016 / IEC 62052-11-2002 / IEC 62053-11-2003 Amd1-2016 / Cl.8.2 of IEC 62053-21-2003 Amd1-2016 / IEC 62053-21-2020 / Cl.8.2 of IEC 62053-22-2003 Amd1-2016 / IEC 62053-22-2020 / IEC 62055-31-2005 Amd1-2016 / Cl.5.6.2 of CBIP No 325 -2015 / Cl.4.6.2 of IS 15884-2010 / Cl.6.12 of IS 16444(Part 1)-2015 ,Amd1-2 / IS 1644(part2) 2017, A



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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
1571	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.25, 0.55 & 1.05 AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.25,0.55 and 1.05 AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 2 & 0.55) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Test of No-load condition / Running with no load	IS 13779: 1999,cl.12.13, Amd1-5, IS 13779:2020, IS 14697: 1999,cl.12.12, Amd 1-4, IS 14697:2021, IEC: 62052-11,2003,Amd1, IEC 62052-11:2020, IEC 62053-11, 2003,Amd1 cl.8.3.1, IEC 62053-21,cl.8.3.2,2003,Amd1, IEC 62053-21:2020, IEC: 62053-22, 2003,cl.8.3.2,Amd1,IEC 62053-22:2020, IEC: 62053-23 ,2003,Amd1,cl.8.3.2, IEC 62053-23:2020, IEC: 62053-24 ,2014,Amd1cl.8.4.3 IEC: 62055-31,2005,Amd1cl.8 CBIP No: 325:2015 cl.5.6.4 IS 15884 :2010 cl.5.6.3 IS 16444(part 1&2
1572	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Test of starting condition / Initial start up of the meter	cl.11.4, IS 13779:1999,cl.12.14, Amd1-5, IS 13779:2020, IS 14697:1999 cl.12.13, Amd:1-4 IS 14697:2021,IEC: 62052-11, 2003,Amd1, IEC 62052-11:2020, IEC: 62053-11, 2003,Amd1,cl.8.3.2, IEC: 62053-21,cl.8.3.1,8.3.3,2003,A md1, IEC 62053-21:2020, IEC: 62053-22, 2003,cl.8.3.1,8.3.3,Amd1,IEC 62053-22;2020, IEC: 62053-23 ,2003,Amd1cl.8.3.1, 8.3.3, IEC 62053-23:2020, IEC: 62053-24 ,2014,Amd1cl.8.4.2,8.4.4 IEC: 62055-31,2005,Amd1cl.8 CBIP No: 325:2015 cl.5.6.5 IS16444(part1&2)-2019



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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
1573	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2	Stray d.c magnetic induction of external origin/ continuous magnetic induction of external origin (67mT)	/ Cl.12.11 of IS 13779-1999 Amd1-5 / IS 13779-2020 / Cl.12.10 of IS 14697-1999 Amd1-4 / IS 14697-2021 / IEC 62052-11-2003 Amd1-2016 / IEC 62052-11-2003 Amd1-2016 / Cl.8.2 of IEC 62053-21-2003 Amd1-2016 / IEC 62053-21-2020 / Cl.8.2 of IEC 62053-22-2003 Amd1-2016 / IEC 62053-22-2020 / IEC 62055-31-2005 Amd1-2016 / Cl.5.6.2 of CBIP No 325 -2015 / Cl.4.6.2 of IS 15884-2010 / Cl.6.12 of S16444(part1&2)-2019
1574	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S AC watthour meters,class 0.5,1 & 2	Waveform:10% of 3rd Harmonic in current	,IS 13779: 1999 cl.12.11,Amd1-5,IS 13779:2020, IS 14697: 1999 cl.12.10,Amd 1-4, IS 14697:2020,IS 15884 :2010,cl.4.6.2 IS 16444(Part 1):2015,Amd1 cl.6.12, IS 16444(Part 2):2017 cl.6.12, CBIP No 325, cl.5.6.2, 4.6.3-2015
1575	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 AC watthour meters, class 0.5,1 & 2	Insulation Resistance test	IS 13779:1999 Amd1 to 5 cl.12.7.6.4,IS 13779:2020, IS 14697: 1999 Amd1 to 4 cl.12.7.6.4, IS 14697:2021,IS 15884 : cl.5.4.6.4-2010
1576	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Direct Connected Static Prepaid meters for active energy Cl. 1.0 and Cl. 2.0	Requirement of Time keeping	Cl. No. Annex D of IS 15884 :2010 / IEC 62055-31 -2005
1577	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 For UC1,UC2 & UC3 a.c.Static Direct Connected Watthour Smart Meter Class 1 and 2; For UC1, UC2 & UC3	Load switching capability	"IS 15884:2010 RA:2015, IS 16444-1:2015 RA:2020, IEC 62055-31:2022"
1578	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 For UC1,UC2 & UC3 a.c.Static Direct Connected Watthour Smart Meter Class 1 and 2; For UC1, UC2 & UC3	Short circuit current carrying capacity / Short Time Over Current Test	IS 15884-2010 / IS 16444(Part 1)-2015, Amd 1-2017 / IEC 62052-31-2015 / IEC 62055-31-2005
1579	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 For UC1,UC2 & UC3 a.c.Static Direct Connected Watthour Smart Meter Class 1 and 2; For UC1, UC2 & UC3	Electrical Endurance	"IS 15884:2010 RA:2015, IS 16444-1:2015 RA:2020, IEC 62055-31:2022"



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1580	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 Static payment meters for active energy (Classes 1 & 2)	Dielectric strength	Cl.G-8 of IS 15884-2010 / Cl.8 of IEC 62055-31-2005
1581	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 Static payment meters for active energy (Classes 1 & 2)	Functional requirements	Cl.6 Annex A of IS 15884 -2010 / Cl.9 of IEC 62055-31-2005
1582	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 Static payment meters for active energy (Classes 1 & 2)	Normal operation	Cl. No. Annex G2 of IS 15884-2010 / IS 16444(Part 1)-2015, Amd 1 / IEC 62055-31-2005
1583	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 Static payment meters for active energy (Classes 1 & 2)	Surge immunity test / Line to load voltage surge test	Cl.G4 of IS 15884 -2010 / IS 16444(Part 1)-2015 Amd1 Amd 2-2019-2017 / IEC 62055-31- 2005 IS 13779: 1999,cl.12.1,Amd1 t-5,IS 13779:2020, IS 14697: 1999 Amd 1-4, cl.12.15, IS 14697:2021, IEC: 62052-11, 2003,Amd1 IEC: 62053-11, 2003,Amd1cl.8.6 IEC: 62053-21,2003 Amd 1 cl.8.6, IEC 62053-21:2020, IEC: 62053-22,2003,Amd1 cl.8.6,IEC 62053-22:2020, IEC: 62053-23,2003,cl.8.6,Amd1, IEC 62053-24,2014,Amd1,cl.8.7 IEC: 62055-31,2005 cl.8 CBIP No: 325:2015 IS 15884 :2010,cl.5.
1584	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 Static payment meters for active energy (Classes 1 $\&$ 2)	Test of consumption based charging functions	Cl.5.9 of IS 15884-2010 / IEC 62055-31-2005
1585	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 Static payment meters for active energy (Classes 1 & 2)	Test of Time -based charging functions	Cl.5.10 of IS 15884-2010 / IEC 62055-31-2005
1586	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 For UC1,UC2 & UC3 a.c.Static Direct Connected Watthour Smart Meter Class 1 and 2; For UC1, UC2 & UC3	Fault current making capacity Short circuit current carrying capacity	"IS 15884:2010 RA:2015, IS 16444-1:2015 RA:2020, IEC 62055-31:2022"
1587	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 Static payment meters for active energy (Classes 1 $\&$ 2)	Minimum switched current	Cl. No. Annex G7 of IS 15884-2010 / IS 16444(Part 1)-2015, Amd 1 / IEC 62055-31-2005



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1588	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S	Tamper & fraud monitoring	CBIP No. 325-2015 / Cl. No. G-10 of IS 14697-1999, Amd 1 -4 / IS 14697-2021
1589	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S	Phase of auxiliary supply by 120°	Cl.12.10 of IS 14697-1999 Amd 1 to 4 / Cl.6.12 of IS 14697-2021 / IS 16444(Part 2)-2017 Amd1-2019
1590	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.25, 0.55 & 1.05 AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.25, 0.55 and 1.05 AC watthour meters, class 0.5, 1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5, 1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for reactive energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	General & constructional requirements / General requirements	IEC 62053-22-2003, Amd 1 / IEC 62053-23-2003, Amd 1 / Cl.No.5 of IEC 62053-24-2014, Amd 1 / IEC 62055-31-2005, Amd 1 / Cl. No. 4.1, 4.2 of CBIP No. 325-2015 / Cl. No. 4.0, 4.1, 4.2, 4.3 of IS 15884-2010 / Cl.6.0, 10.3 of IS 16444(Part 1)-2015, Amd1 / Cl.No. 6 of IS 16444(Part 2)-2017, Amd1 -2019
1591	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.25, 0.55 & 1.05 AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.25,0.55 and 1.05 AC watthour meters,class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 2 & 0.55) Static meters for reactive energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Influence of self heating	Cl.7.3 of IEC 62053-21-2020 / IEC 62053-22-2003, Amd 1 / Cl.7.3 of IEC 62053-22-2020 / IEC 62053-23-2003 / Cl.7.4 of IEC 62053-24-2014,Amd1 / Cl. 7.6 of IEC 62055-31-2005,Amd1 / Cl.5.4.4 of CBIP No: 325-2015 / Cl. No. 5.4.4 of IS 15884-2010 / IS 16444(Part 2)-2017 Amd1 -2019



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1592	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S, 0.5S and 1.0S AC watthour meters, class 0.5, 1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for reactive energy (Classes 0.2S & 0.5S) Static meters for reactive energy (Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Short time overcurrent Test Effect of Short time overcurrent	IEC 62053-21-2020 Cl. 7.2 of IEC 62053-22-2003 Amd1 / Cl. 7.2 of IEC 62053-22-2020 / IEC 62053-23-2003Amd1 / Cl.7.3 IEC 62053-23-2020 / IEC 62053-24-2014,Amd1 / IEC 62055-31-2005,Amd1 / Cl.5.4.3 of CBIP No. 325-2015 / Cl.5.4.3 of IS 15884-2010 / IS 16444 (part 1) 2015 Amd1&2 / IS 16444(part2)-2017, Amd1-2019
1593	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC static watthour meters for active energy (classes 0.2S & 0.5 S) AC static watthour meters class $1.0 \& 2.0$	Short time current test	IEC 62053-22-2020 / IEC 62052-11-2020 / IS 14697-2021 / IS 13779-2020 / IEC 62053-21-2020 / IEC 62052-11
1594	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC watthour meters, class $0.5,1 \& 2$ Electromechanical meters for active energy (Classes $0.5,1 \& 2$)	Test for adjustment of range	Cl.9 of IEC 62053-11-2003 Amd1-2016
1595	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC watthour meters, class 0.5, 1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5, 1 & 2)	Mechanical load of register / Mechanical load of either single or multi-rate register	IEC 62053-11-2003
1596	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC watthour meters, class 0.5,1 & 2 Metering Equipment Electromechanical meters for active energy (Classes 0.5,1 & 2)	Oblique suspension	Cl.9 of IEC 62053-11:2003 Amd1-2016
1597	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC watthour meters, class 0.5,1 & 2AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S, 0.5S and 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test on limits of error / Limits of error due to variation of current	/ Cl.11.1 of IS 13779-1999 Amd1- 5 / IS 13779-2020 / Cl.11.1 of IS 14697-1999 Amd 1- 4 / Cl.11.1 of IS 14697-2021 / Cl.4.6.1 of IS 15884 -2010 / Cl.6.12 of IS 16444(Part 1)-2015 / Cl.6.12 of IS 16444(Part 2)-2017 / Cl. 5.6.8,5.2.3,5.2.2 of CBIP No 325-2015
1598	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC wattour meters class 0.5, 1.0 & 2.0 AC Static Electrical Energy Meters	Short time current test	IEC 62053-11-2016 / IEC 62052-11-2020 / (Withdrawn Standard) CBIP TR 88



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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
1599	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter	Compliance test: 1.0 Conformance to DLMS/COSEM (IEC 62056) 2.0 Parameter verification: 3.0 SNRM/UA 4.0 Object list download 5.0 Association properties 6.0 Security: (a) Lowest Level Security Secret (b) Low Level Security (LLS) Secret (c) High Level Security (HLS) Secret Parameter list: 7.0 (a) Instantaneous Parameters 7.0 (b) Snap Shot of Instantaneous Parameters 7.0 (c) Scaler Profile 8.0 Block load profile parameters 9.0 Selective access by Range for Block load profile 10.0 Daily load profil	Cl No 4 to 28 of IS 15959 (Part 3) -2017
1600	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter	Conformance test	IS / IEC 6205(DLMS / COSEM)-2005
1601	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter	Conformance test	IS / IEC 62056 (DLMS / COSEM)-2005
1602	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter - Smart Meter Category D1 & D2	10.0 Daily load profile parameters 11.0 Selective access by Range for Daily load profile 12.0 ToU setting 13.0 Billing profile parameters 14.0 Billing Period 15.0 Billing Period Counter 16.0 Selective access by Entry for Billing profile	Cl No 4 to 24 of IS 15959 (Part 2) -2016
1603	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter - Smart Meter Category D1 & D2	17.0 Event code and Event logging : (a) Indian Event Reference Table - Voltage Related (b) Indian Event Reference Table - Current Related (c) Indian Event Reference Table - Power Related (d) Indian Event Reference Table - Transaction Related (e) Indian Event Reference Table - Other (f) Indian Event Reference Table - Non Roll Over (g) Indian Event Reference Table - Control 18.0 Selective access by Entry for Event Log Profile	Cl No 4 to 24 of IS 15959 (Part 2) -2016



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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
1604	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter - Static Energy Meter Category A, B, C1, C2 & C3	2.9.2 Block load profile parameters 2.9.3 Selective access by Range for Block load profile 2.9.4 Daily load profile parameters 2.9.5 Selective access by Range for Daily load profile 2.9.6 Billing profile parameters 2.9.7 Selective access by Entry for Billing profile 2.10 General Purpose parameters : 2.10.1 Name Plate Details 2.10.2 Programmable Parameters	Cl No 4 to 14 Annex A to L of IS 15959 (Part 1) -2011
1605	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter - Static Energy Meter Category A, B, C1, C2 & C3	Compliance test: 1.0 Conformance to DLMS / COSEM (IEC 62056) 2.0 Parameter verification: 2.1 SNRM/UA 2.2 Object list download 2.3 Association properties 2.4 Simultaneous operation 2.5 Security: 2.5.1 Lowest Level Security Secret 2.5.2 Low Level Security Secret 2.5.2 Low Level Security (LLS) Secret 2.5.3 High Level Security (HLS) Secret 2.6 ToU setting 2.7 Billing Period 2.8 Billing Period Counter 2.9 Parameter list: 2.9.1 (a) Instantaneous Parameters 2.9.1 (b) Snap Shot of Instantaneous Parameters 2.9.1 (c) Scaler Profile	Cl No 4 to 14 Annex A to L of IS 15959 (Part 1) -2011
1606	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter - Static Energy meter Category A, B, C1, C2 & C3	2.11 Event code and Event logging : 2.11.1 Indian Event Reference Table - Voltage Related 2.11.2 Indian Event Reference Table - Current Reference Table - Current Reference Table - Power Related 2.11.4 Indian Event Reference Table - Transaction Related 2.11.5 Indian Event Reference Table - Other 2.11.6 Indian Event Reference Table - Non Roll Over 2.11.7 Indian Event Reference Table - Control 2.12 Selective access by Entry for Event Log Profile	Cl No 4 to 14 Annex A to L of IS 15959 (Part 1) -2011



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1607	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter- Smart Meter Category D1 & D2	19.0 General Purpose parameters : (a) Name Plate Details (b) Programmable Parameters 20.0 Test for Smart Meter Functional Requirements 21.0 Tests for Smart Meter communicability (a) Association (b) Data read (c) Profile read (d)Selective Programmability (e) Reporting of events (f) Connect/ Disconnect (g) Firmware upgrade	Cl No 4 to 24 of IS 15959 (Part 2) -2016
1608	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter- Smart Meter Category D1 & D2	Compliance test: 1.0 Conformance to DLMS/COSEM (IEC 62056) 2.0 Parameter verification: 3.0 SNRM/UA 4.0 Object list download 5.0 Association properties 6.0 Security: (a) Lowest Level Security Secret (b) Low Level Security (LLS) Secret (c) High Level Security (HLS) Secret Parameter list: 7.0 (a) Instantaneous Parameters 7.0 (b) Snap Shot of Instantaneous Parameters 7.0 (c) Scaler Profile 8.0 Block load profile parameters 9.0 Selective access by Range for Block load profile 10.0 Daily load profil	Cl No 4 to 24 of IS 15959 (Part 2) -2016
1609	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter- Smart Meter Category D3 & D4	10.0 Daily load profile parameters 11.0 Selective access by Range for Daily load profile 12.0 ToU setting 13.0 Billing profile parameters 14.0 Billing Period 15.0 Billing Period Counter 16.0 Selective access by Entry for Billing profile	Cl No 4 to 28 of IS 15959 (Part 3) -2017



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1610	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter- Smart Meter Category D3 & D4	17.0 Event code and Event logging : (a) Indian Event Reference Table - Voltage Related (b) Indian Event Reference Table - Current Related (c) Indian Event Reference Table - Power Related (d) Indian Event Reference Table - Transaction Related (e) Indian Event Reference Table - Other (f) Indian Event Reference Table - Non Roll Over 18.0 Selective access by Entry for Event Log Profile	Cl No 4 to 28 of IS 15959 (Part 3) -2017
1611	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter- Smart Meter Category D3 & D4	19.0 General Purpose parameters : (a) Name Plate Details (b) Programmable Parameters 20.0 Tests for Smart Meter Functional Requirements 21.0 Tests for Smart Meter communicability a) Association (b) Data read (c) Profile read (d)Selective Programmability (e) Reporting of events (g) Firmware upgrade	Cl No 4 to 28 of IS 15959 (Part 3) -2017
1612	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Continuous magnetic induction of external origin	IEC 62052-11-2020 / IEC 62053-21-2020 / IEC62053-22-2020 / IEC 62053-24-2020 / IEC 62052-11- 2003 Amd1-2016 / Cl.8.2 of IEC 62053-21- 2003 Amd1-2016 / Cl.8.2 of IEC 62053-22- 2003 Amd1-2016 / Cl.8.2 of IEC 62053-23-2003 Amd1-2016 / Cl.8.3 of IEC 62053-24 -2014 Amd1-2016 / Cl.8 of IEC 62055-31-2005
1613	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Metering Equipment-general requirements Electromechanical meters for active energy (Classes 0.5,1 & 2) Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S)	AC High voltage test / Dielectric Test	IEC 62052-11:2020, IEC 62053-21:2020,IEC62053-22:2 020, IEC 62053-24:2020,IEC: 62052-11, 2003, Amd1 cl.7.3.3, IEC 62052-31;2015 IEC: 62053-11, 2003, Amd1 cl.7.4 IEC: 62053-21 cl.7.4,2003,Amd1 IEC: 62053-22, 2003,Amd1,cl.7.4, CBIP No: 325:cl.5.4.6.3-2015



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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
1614	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Influence of supply voltage:	IS 13779:2020, IS 14697:2021,IS 13779: 1999,Amd1- 5 cl.12.7.2, IS 14697: 1999 ,Amd1-4 cl.12.7.2 IEC 62052-11:2020, IEC 62053-21:2020, IEC 62053-22:2 020, IEC 62053-24:2020, IEC: 62052-11: 2003,Amd1 cl.7.1 IEC: 62052-21:2003,Amd1 IEC: 62055-31 : 2005, Amd1 cl.7.2 CBIP No: 325:2015 cl.5.4.2 IS 15884:2010 cl.4.4.2 & ,5.4.2 IS 16444(Part 1):2015,Amd1 cl.6.10.2 IS 16444(Part 2):2017 cl.6.10.2 Amd1 -2019
1615	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static meters for active energy (Classes 0.2S & 0.5S) AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S	Auxiliary voltage ±15% / operation of accessories	Cl.12.10 of IS 14697-2021 / IS 14697-1999, Amd 1-4 / Cl.5.6.2, 4.6.3 of CBIP No: 325-2015 / Cl.4.6.2 of IS 15884-2010 / Cl 6.12 of IS 16444(Part 1)-2015, Amd 1-2 / Cl.6.12 of IS 16444 (Part 2)-2017 Amd1 / Cl.8.2 of IEC 62053-22-2002 / IEC 62053-22-2003, Amd1 / IEC 62053-22-2003, Amd1 / IEC 62053-23-2003, Amd1 / IEC 62053-24-2014, Amd1 / IEC 62055-31-2005 / IEC 62053-11, Amd1: 2016
1616	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.25 & 0.55) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Harmonic component in current & voltage circuits	Cl.8.2 of IEC 62052-11-2020 / IEC 62053-21-2020 / IEC62053-22-2020 / IEC 62053-24-2020 / IEC 62052-11-2003,Amd1 / IEC 62053-21-2003,Amd1 / Cl.8.2 of IEC 62053-22-2003,Amd1/ Cl.8.3 of IEC 62053-24-2014,Amd1 / Cl.8 IEC 62055-31-2005
1617	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.25 & 0.55) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Odd harmonics in ac current circuit	Cl.8.2 of IEC 62052-11-2020 / IEC 62053-21-2020 / IEC 62053-24-2020 / IEC 62052-11-2003,Amd1 / IEC 62053-21-2003,Amd1 / Cl. 8 of IEC 62053-24-2014,Amd1 / IEC 62055-31-2005
1618	ELECTRICAL- EMI / EMC TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Harmonic currents	Cl. 6.2.2 of IS 17017 (Part 21/Sec 2) : 2019 or IEC 61851-21-2 : 2018



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1619	ELECTRICAL- EMI / EMC TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	SURGE	Cl. 5.2 and Annex E of IS 17017 (Part 21/Sec 2) : 2019 or IEC 61851-21-2 : 2018
1620	ELECTRICAL- EMI / EMC TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Voltage fluctuations and flicker	Cl. 6.2.3 of IS 17017 (Part 21/Sec 2) : 2019 or IEC 61851-21-2 : 2018
1621	ELECTRICAL- EMI / EMC TEST FACILITY	Electricity meters-AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Surge immunity test	Cl.12.9.5 of IS 13779-2020 / Cl.12.8.5 of IS 14697-2021 / Cl.7.5.6 of IEC: 62052-11- 2003 Amd1-2016 / IEC 62052-11-2020 / IEC 62052-31-2015 / IEC 62053-21- 2003 Amd1-2016 / IEC: 62053-22 2003 Amd1-2016 / IEC 62053-23-2003 Amd1-2016 / IEC 62053-24 -2014 Amd1-2016 / IEC 62055-31 -2005 / CBIP No: 325-2015 / Cl.5.5.6 Annex G4 of IS 15884 -2010 / Cl.11 of IS 16444(Part 1)-2015 Amd1 -2019 / Cl.6.11 of IS 16444(Part 2)-2017 Amd1-
1622	ELECTRICAL- EMI / EMC TEST FACILITY	Electricity meters-AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S	Radio Interference measurement: b) Radiated Emission	Cl.12.9.5 of IS 13779-1999 Amd-1 to Amd-5 / IS 13779-2020 / Cl.12.8.5 of IS 14697-1999 Amd 1 to Amd 4 / IS 14697-2021 / Cl.6.11 of IS 16444(part 2) -2017 Amd 1 -2019 / Cl.5.5.5 of CBIP 325 -2015
1623	ELECTRICAL- EMI / EMC TEST FACILITY	Electricity meters-AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Fast Transient burst test	IS 13779: 1999, Amd1-5 cl.12.9.4, IS 13779:2020, IS 14697: 1999, Amd 1- 4,12.8.4, IS 14697:2021, IEC 62052-11: 2003, Amd1 cl.7.5.4, IEC 62052-11:2020, IEC: 62053-21: 2003, Amd1 cl.8.2, IEC 62053-22: 2003, Amd1 cl.8.2, IEC 62053-22: 2003, Amd1 cl.8.2, IEC 62053-23: 2003, Amd1 cl.8.2, IEC 62053-23: 2003, Amd1 cl.8.2, IEC 62053-23: 2003, Amd1 cl.8.3, IEC: 62055-31: 2005 cl.7.8.4, CBIP No: 325:2015 cl.5.5.3 IS 15884: 2010, cl.5.5.4 IS 16444(Part 1): 2015 cl.6.11, Amd 1-2/ Cl.61 of IS 16444(Part 2): 2017, Amd



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1624	ELECTRICAL- EMI / EMC TEST FACILITY	Electricity meters-AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.2S, 0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Radio Interference measurement / Radio interference suppression a) Conducted Emission	IS 13779: 1999 ,Amd1 to 5 cl.12.9.5,IS 13779:2020, IS 14697: 1999 , Amd 1 to 4 cl.12.8.5, IS 14697:2021, IEC: 62052-11: 2003,Amd1 cl.7.5.8, IEC 62052-11:2020, IEC: 62053-21:2020, IEC: 62053-22: 2003, Amd1, IEC 62053-22:2020, IEC: 62053-23 :2003, ,Amd1, IEC 62053-23:2020, IEC: 62053-24 :2014,Amd1 IEC: 62055-31 :2005, CBIP No: 325:2015 cl.5.5.5, IS 15884 :2010,cl.5.5.5, IS 16444(Part 1):2015 cl.6.11,Amd1-2, IS 16444(Part 2): cl.6.11: 2017,Amd1-2019
1625	ELECTRICAL- EMI / EMC TEST FACILITY	Electricity meters-AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.2S, 0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for reactive energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Radio Interference measurement / Radio interference suppression a) Conducted Emission	IS 13779: 1999 ,Amd1 to 5 cl.12.9.5,IS 13779:2020, IS 14697: 1999 , Amd 1 to 4 cl.12.8.5, IS 14697:2021, IEC: 62052-11: 2003,Amd1 cl.7.5.8, IEC 62052-11:2020, IEC: 62053-21:2020, IEC: 62053-22: 2003, Amd1, IEC 62053-22:2020, IEC: 62053-23 :2003, ,Amd1, IEC 62053-23:2020, IEC: 62053-24 :2014,Amd1 IEC: 62055-31 :2005, CBIP No: 325:2015 cl.5.5.5, IS 15884 :2010,cl.5.5.5, IS 16444(Part 1):2015 cl.6.11,Amd1, IS 16444(Part 2):2017cl.6.11-Amd 2 -2017
1626	ELECTRICAL- EMI / EMC TEST FACILITY	Electricity meters-AC Static Watthour Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 a.c.Static Transformer operated Watthour and Var – Hour Smart Meters Class 0.2S, 0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S, 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Test of immunity to Electromagnetic HF/RF fields	IS 16444 (part 1)-2015 Amd-1-2017 Amd-2-2019 / IS 15884-2010 / Cl.12.9.3 of IS 13779-1999 Amd-1 to 5 / IS 13779-2020 / IS 14697- 1999 Amd-Cl.12.8.3 of 1 to 4 / IS 14697-2021 / Cl.6.11 of IS 16444(Part 2)- 2017 Amd-1-2019



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Laboratory	Name :
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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
1627	ELECTRICAL- EMI / EMC TEST FACILITY	Lamps and Luminaires	Test for Emission (Radiated and Conducted) of Radio Frequency Disturbances	IS 16103 (Part 2): 2012 Cl 13 / IEC 62717,Cl 13
1628	ELECTRICAL- EMI / EMC TEST FACILITY	LED Lamps and Luminaire, Power conditioning Unit.	Assessment of voltage changes, voltage fluctuations and flicker	Cl 4 of IEC 61000-3-3:2013 IS 14700-3-3
1629	ELECTRICAL- EMI / EMC TEST FACILITY	LED Lamps and Luminaire, Power conditioning Unit.	Assessment of voltage changes, voltage fluctuations and flicker	Cl 4 of IEC 61000-3-3:2013 IS 14700-3-3
1630	ELECTRICAL- EMI / EMC TEST FACILITY	LED Lamps and Luminaire, Power conditioning Unit.	Conducted Disturbance voltage , Upto 240V	Cl 4.3.1 of CISPR-15: 2018 IS 6873 Part 5
1631	ELECTRICAL- EMI / EMC TEST FACILITY	LED Lamps and Luminaire, Power conditioning Unit.	Conducted Disturbance voltage , Upto 240V	Cl 4.3.1 of CISPR-15: 2018 IS 6873 Part 5
1632	ELECTRICAL- EMI / EMC TEST FACILITY	LED Lamps and Luminaire, Power conditioning Unit.	Harmonic current Measurement	Cl 6.2 of IEC 61000-3-2 : 2018 IS 14700-3-2 :
1633	ELECTRICAL- EMI / EMC TEST FACILITY	LED Lamps and Luminaire, Power conditioning Unit.	Harmonic current Measurement	Cl 6.2 of IEC 61000-3-2 : 2018 IS 14700-3-2 :
1634	ELECTRICAL- EMI / EMC TEST FACILITY	LED Lamps and Luminaire, Power conditioning Unit.	Input Voltage	Cl 7 of IEC 61000-4-5:2017 IS 14700-4-5
1635	ELECTRICAL- EMI / EMC TEST FACILITY	LED Lamps and Luminaire, Power conditioning Unit.	Radiated field Disturbance Upto 88dB	Cl 4.5.2 of CISPR-15: 2018 IS 6873 Part 5
1636	ELECTRICAL- EMI / EMC TEST FACILITY	LED Lamps and Luminaire, Power conditioning Unit.	Radiated field Disturbance Upto 88dB	Cl 4.5.2 of CISPR-15:2018 IS 6873 Part 5
1637	ELECTRICAL- EMI / EMC TEST FACILITY	LED Lamps and Luminaire, Power conditioning Unit.	Radiated field Disturbance (CDN Method) Upto 88dB	Cl 4.5.3 of CISPR-15 :2018 IS 6873 Part 5
1638	ELECTRICAL- EMI / EMC TEST FACILITY	LED Lamps and Luminaire, Power conditioning Unit.	Radiated field Disturbance (CDN Method) Upto 88dB	Cl 4.5.3 of CISPR-15: 2018 IS 6873 Part 5
1639	ELECTRICAL- EMI / EMC TEST FACILITY	LED Lamps and Luminaire, Power conditioning Unit.	Surge immunity test	Cl 6 of IEC 61000-4-5:2017 IS 14700-4-5
1640	ELECTRICAL- EMI / EMC TEST FACILITY	LED Lamps and Luminaire, Power conditioning Unit.	Verification of Test Instrumentation - Test condition	Cl 6 of IEC 61000-4-5:2017 IS 14700-4-5



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1641	ELECTRICAL- EMI / EMC TEST FACILITY	Meters Class 1 and 2 AC static Transformer operated Watthour and VAR- Hour Meters, Class 0.2S, 0.5S & 1.0S AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 a.c.Static Direct Connected Watthour Smart MeterClass 1 & 2 Electricity meters- a.c.Static Transformer operated Watthour and Var - Hour Smart Meters Class 0.2S,0.5S and 1.0S Static meters for active energy (Classes 1 & 2) Static meters for active energy (Classes 0.2S & 0.5S) Static meters for reactive energy(Classes 2 & 3) Static meters for reactive energy at fundamental frequency (Classes 0.5 S , 1 S & 1) Static payment meters for active energy (Classes 1 & 2)	Electro static discharges test	IS 13779:2020, IS 14697:2021,IS 13779: 1999, Amd1 to 5 cl.12.9.2 IS 14697: 1999, Amd 1 to 4 cl.12.8.2,IEC 62052-11:2020,IEC 62053-21:2020,IEC62053-22:2 020, IEC 62053-24:2020, IEC: 62052-11: 2003, Amd1 cl.7.5.2 IEC: 62053-21: 2003, Amd1 IEC: 62053-22: 2003, Amd1 IEC: 62053-23: 2003, Amd1 IEC: 62053-24: 2014,Amd1 IEC: 62055-31: 2005, cl.7.8.2 CBIP Publication No: 325:2015 cl.5.5.2 IS 15884 :2010,cl.5.5.2 IS 16444(Part 1):2015, Amd1 cl.6.11 IS 16444(Part 2): -2017
1642	ELECTRICAL- EMI / EMC TEST FACILITY	Power Conditioning Unit	EMC Voltage changes, Voltage fluctuations and Flicker	IEC 61000-3-3:2013+AMD1:2017+ AMD2
1643	ELECTRICAL- EMI / EMC TEST FACILITY	Power Conditioning Unit	EMC Voltage changes, Voltage fluctuations and Flicker	IS 14700 : Part 3 : Sec 3
1644	ELECTRICAL- EMI / EMC TEST FACILITY	Relay ans Protection equipment	Slow damped oscillatory Immunity Test	IEC 61000-4-18:2019 / IEC 60255-26::2013
1645	ELECTRICAL- EMI / EMC TEST FACILITY	SELF BALLASTED LED LAMPS	Emission of RF disturbance	is 16102-2 cl 8.4
1646	ELECTRICAL- ENVIRONMENTAL TEST FACILITY		5.13.1 Protection of persons against access to hazardous parts and protection of the equipment against ingress of solid foreign objects 5.13.2 Protection against ingress of water 5.13 DoP by enclosures 5.13.1 Protection of persons against access to hazardous parts and protection of the equipment against ingress of solid foreign objects 5.13.2 Protection against ingress of water 6.14.2 Protection of persons against access to hazardous parts and protection of the equipment against ingress of	IS/IEC 62271 : PART 1 : 2017 : IS/IEC 62271 : PART 10 : 2021 IS/IEC 62271 : PART 100 : 2021 IS/IEC 62271 : PART 200 : 2021 : IS/IEC 62271 : PART 201 : 2014 : IS/IEC 62271 : PART 201 : 2014 : IS/IEC 62271 : PART 203 : 2022 : IEC 62271 : PART 203 : 2022 : IEC 62271 : PART 203 : 2022 : IEC 62271 : DART 2011-08 IEC 62271 - Edition 1.1 2011-08 IEC 62271 - 202 Edition 3.0 2022-06 IEC 62271 - 200 Edition 3.0 2021-05 IEC 62271-103 Edition 2.0 2021-05 IEC 62271-201 Edition 2.0 2014-03 IEC 62271-203 Edition 2.0 2011-09



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1647	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Insulated cables and their accessories for power systems – Insulation piercing connectors, Anchoring Devices, Suspension Equipment's, Low-voltage switchgear and controlgear assemblies, Cable cleats, All electrical and electronics equipments, Lightning protection system components, paint coating, Covered conductors for overhead lines and the related accessories for rated voltages above 1 kV AC and not exceeding 36 kV AC	Salt spray, Salt fog, Salt mist test, Conditioning and ageing, corrosion test	ASTM B117-19, IEC 61439-1,IEC 61439-2, IEC 60068-2-30:2005, IEC 60068-2-11:2021, IEC 61439-6, IS 9000 : PART 12 : 1981 (REAFFIRMED 2019)
1648	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR ASSEMBLIES	8.2 Degree of protection provided by an ASSEMBLY enclosure 10.3 Degree of protection of ASSEMBLIES 8.101 Internal separation of PSC-ASSEMBLIES 8.2.101 PSC- ASSEMBLY with withdrawable parts 9.1.2 Power-frequency withstand voltage Electrical tests / No load run tests / Funct	cl 8.2 , 10.3, 8.101,8.2.101, 9.1.2 of IS / IEC 61439 - PART 1 : 2011 IS / IEC 61439 - PART 2 : 2011, RA 2018 IS / IEC 61439 : PART 5 : 2014 IS / IEC 61439 : PART 6 : 2012 IEC 61439-1, Ed.3.0:2020 IEC 61439-2; Ed.3.0 :2020
1649	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR ASSEMBLIES PART 1: Low-Voltage Switchgear and Controlgear Assemblies Part 2 Power Switchgear and Controlgear Assemblies LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR ASSEMBLIES - PART 3 DISTRIBUTION BOARDS INTENDED TO BE OPERATED BY ORDINARY PERSONS (DBO) LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR ASSEMBLIES - PART 5 ASSEMBLIES FOR POWER DISTRIBUTION IN PUBLIC NETWORKS LOW- VOLTAGE SWITCHGEAR AND CONTROLGEAR ASSEMBLIES - PART 6 BUSBAR TRUNKING SYSTEMS (BUSWAYS) Low- voltage Switchgear and Controlgear Assemblies Part 7 Assemblies for Specific Applications Such as Marinas, Camping sites, Market Squares, Electric Vehicle Charging Stations	.2 Degree of protection provided by an ASSEMBLY enclosure 10.3 Degree of protection of ASSEMBLIES 8.101 Internal separation of PSC-ASSEMBLIES 8.2.101 PSC- ASSEMBLY with withdrawable parts dielectric test in accordance with 10.9.2 Electrical tests / No load run tests / Functional / Performance Tests and Drawings / Dimensional verifications	IS/IEC 61439 : PART 1 : 2020/ IEC 61439-1:2020/ IEC 61439-1, Ed.3.0:2020 IS/IEC 61439-2 : 2020/ IEC 61439-2:2020/ IEC 61439-2; Ed.3.0:2020 IS/IEC 61439 : PART 3 : 2012 : S/IEC 61439 : PART 5 : 2014 / IEC 61439-5; Ed.2.0-2014/ IEC 61439-5; Ed.2.0-2014/ IEC 61439-5; Ed.2.0-2014/ IEC 61439-5; IS/IEC 61439-6 Ed. 1.0 b:2012 IS/IEC 61439-6 Ed. 1.0 b:2012 IS/IEC 61439-7:2022 IEC 61439-7:2022 IEC 61439-1 Edition 3.0 2020-05 IEC 61439-2 Edition 1.0 2012-05 IEC 61439-5 Edition 3.0 2023-05
1650	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Actuators	Vibration ageing test	IEEE 382
1651	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	AUTOMATIC POWER FACTOR CORRECTION (APFC) PANELS FOR VOLTAGE RATING UP TO AND INCLUDING 1 000 V	5.14 Verification of the Degree of Protection of Enclosure, test ranging from IP 1X to IP 6X tests test ranging from IP X1 to IP X8. Electrical tests / No load run tests / Functional / Performance Tests and Drawings / Dimensional verifications	IS 16636 : 2017



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1652	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	AUTOMATIC POWER FACTOR CORRECTION (APFC) PANELS FOR VOLTAGE RATING UP TO AND INCLUDING 1 000 V	5.14 Verification of the Degree of Protection of Enclosure, test ranging from IP 1X to IP 6X tests test ranging from IP X1 to IP X9. Electrical tests / No load run tests / Functional / Performance Tests and Drawings / Dimensional verifications	cl 5.14 IS 16636 :2017
1653	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Battery	Test for capacity	IS 1652:2013, RA:2019 / IS 1651:2013, RA
1654	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Battery	Vibration Resistance Test/Vibration test	Cl. 7.16 of IS 7624 :1990, RA 2018 / Cl. 7.11.2 of IS 13568 :1992, RA
1655	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Cable outersheaths, cable insulation, all polymeric and plastic insulating materials, paints,	Fluorescent Ultraviolet (UV) ageing	ASTM G154-23, ISO 4892-3:2016
1656	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Capacitor	Vibration test	Cl. 2.11.3 of IS 2993 : 1998 IEC 252:1993, RA2022 / Cl. 5.14.3 of IEC 61071:2017 / Cl.5.14.3 of IEC 61881-1:2010 / (Withdrawn Standard) Cl.8.11 of IEC 62146-1:2013, AMD 2016 / Cl. 5.11.3 of IEC 60252-1 AMD 2013, Cl. 8.11 of IEC 62146 Part 1
1657	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Cold test	Cold test	IEC 60068-2-1:2007, IS/IEC 60068-2-1:2007
1658	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Covered conductors for overhead lines and the related accessories for rated voltages above 1 kV AC and not exceeding 36 kV AC, Cable outersheaths, Polymeric HV insulators, Low-voltage switchgear and controlgear assemblies, All polymeric and plastic insulation materials including paint, cable cleats	Accelerated weathering, Xenon arc UV test, Resistance to ultra-violet (UV) radiation	ASTM G155-21, ISO 4892-1:2013, ISO 4892-2:2013, IEC 62217:2012, IEC 61109:2008, IEC 61439-1:2020, IEC 61439-2:2020, IEC 61439-6:2020
1659	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	"Damp heat functional test Following the conditioning defined below - For indoor units, 6 cycles of 24 h each - For outdoor units, two 12 day periods, with each period consisting of 5 cycles of 24 h each at (40±3) °C and RH of 95 %;"	Cl. No. 12.9 of IS 17017 (Part 1)



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1660	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	"Minimum temperature functional test Maximum temperature functional test Ambient temperature functional test"	Cl. No. 12.10 of IS 17017 (Part 1)
1661	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Degrees of protection against access to hazardous-live-parts IP degrees	Cl. No. 8.1 and 12.4 of IS 17017 (Part 1)
1662	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Damp heat functional test Following the conditioning defined below	Cl. No. 12.9 of IEC 61851-1
1663	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Degrees of protection against access to hazardous-live-parts	Cl. No. 8.1 of IEC 61851-1
1664	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Degrees of protection against solid foreign objects and water for basic, universal and combined and DC interfaces	Cl. No. 12.4.2 of IEC 61851-1
1665	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Degrees of protection against solid foreign objects and water for the enclosures	Cl. No. 12.4.1 of IEC 61851-1
1666	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	IP degrees	Cl. No. 12.4 of IEC 61851-1
1667	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Maximum temperature functional test	Cl. No. 12.10 of IEC 61851-1
1668	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Minimum temperature functional test	Cl. No. 12.10 of IEC 61851-1
1669	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Normal environmental conditions	Cl. No. 5.2 of IEC 61851-1
1670	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Protection against electric shock	Cl. No. 8 of IEC 61851-1
1671	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Special environmental conditions	Cl. No. 5.3 of IEC 61851-1
1672	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Temperature rise	Cl. No. 12.8 of IEC 61851-1



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1673	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical / electronic equipment, such as Substation equipment, Low voltage and high voltage indoor / outdoor switchgear and controlgears, Circuit breakers, Relay, Electrical and Electronic Instruments, Control panels, Relay Panels, Distribution boards, RMU panels, Transformers, Bus ducts, Battery charger, Telecommunication equipment	Chatter monitoring / monitoring change of status of circuit	IEC 62271- 1:2017+AMD1:2021 / IEC 62271-100:2021 / IEC 61439-1:2020 / IEC 61439-6:2012 / IEC 60255-21-1:1988 / IEC 60255-21-2:1988 / IEC 60255-21-3:1993 / IEC TR 62271-300: 2006 / (Withdrawn Standard) IEC TS 62271-210: 2013 / IEC 62271-207:2023 / (Withdrawn standard) IEEE 344:2013 / IEC/IEEE 60980-344:2020 / IEEE C37.98:2013 / IEE 693:2018 / ICC-ES AC156 : 2010 (Editorially revised May 2015) / IEC 60068 -3 -3: 2019 / IEC 60068-2-57
1674	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical / electronic equipment, such as Substation equipment, Low voltage and high voltage indoor / outdoor switchgear and controlgears, Circuit breakers, Relay, Electrical and Electronic Instruments, Control panels, Relay Panels, Distribution boards, RMU panels, Transformers, Bus ducts, Battery charger, Telecommunication equipment	Functional check / Operational check	IEC 62271- 1:2017+AMD1:2021 / IEC 62271-100:2021 / IEC 62271-201:2014 / IEC 62271-201:2014 / IEC 62271-203:2022 / IEC 61439-1:2020 / IEC 61439-6:2012 / IEC TR 62271-300:2006 /(Withdrawn Standard) IEC TS 62271-210:2013 / IEC 62271-207:2023 / (Withdrawn standard) IEE 344:2013 / IEC/IEEE 60980-344:2020 / IEEC 693:2018 / ICC-ES AC156 : 2010 (Editorially revised May 2015) / IEC 60068 -3 -3: 2019 / IEC 60068-2-57
1675	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical / electronic equipment, such as Substation equipment, Low voltage and high voltage indoor / outdoor switchgear and controlgears, Circuit breakers, Relay, Electrical and Electronic Instruments, Control panels, Relay Panels, Distribution boards, RMU panels, Transformers, Bus ducts, Battery charger, Telecommunication equipment	Insulation resistance test	IEC 61439-1:2020 / IEC 61439-6:2012 / IEC 60947-1:2020 / IEC 60571:2012 / IS 12448, Part 2, Section 3 : 1988, RA:2016 / (Withdrawn standard) IEEE 344:2013 / IEC/IEEE 60980-344:2020 / IEEE 693:2018 / ICC-ES AC156 : 2010 (Editorially revised May 2015) / IEC 60068 -3 -3: 2019 /IS 12615:2018/ IEC 60068-2-57



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1676	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical / electronic equipment, such as Substation equipment, Low voltage and high voltage indoor / outdoor switchgear and controlgears, Circuit breakers, Relay, Electrical and Electronic Instruments, Control panels, Relay Panels, Distribution boards, RMU panels, Transformers, Bus ducts, Battery charger, Telecommunication equipment	Resistance measurement / Measurement of the resistance of the circuits / contact resistance measurement	IEC 62271- 1:2017+AMD1:2021 / IEC 62271-100:2021 / IEC 62271-200:2021 / IEC 62271-201:2014 / IEC 62271-203:2022 / IEC 61439-1:2020 / IEC 61439-6:2012 / IEC TR 62271-300: 2006 /(Withdrawn Standard) IEC TS 62271-210: 2013 / IEC 62271-207:2023 / (Withdrawn standard) IEE 344:2013 / IEC/IEEE 60980-344:2020 / IEEE 693:2018 / ICC-ES AC156 : 2010 (Editorially revised May 2015) / IEC 60068-3 -3: 2019 / IEC 60068-2-57
1677	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical / electronic equipment, such as Substation equipment, Low voltage and high voltage indoor / outdoor switchgear and controlgears, Circuit breakers, Relay, Electrical and Electronic Instruments, Control panels, Relay Panels, Distribution boards, RMU panels, Transformers, Bus ducts, Battery charger, Telecommunication equipment	Voltage/Current monitoring / Circuit monitoring / Voltage / Current measurement	IEC 62271- 1:2017+AMD1:2021 / IEC 62271-100:2021 / IEC 62271-200:2021 / IEC 62271-201:2014 / IEC 62271-203:2022 / IEC 61439-6:2012 / IEC TR 62271-300: 2006 /(Withdrawn Standard) IEC TS 62271-210: 2013 / IEC 62271-207:2023 / (Withdrawn standard) IEEE 344:2013 / IEC/IEEE 60980-344:2020 / IEEE 60980-344:2020 / IEEE 6093:2018 / ICC-ES AC156 : 2010 (Editorially revised May 2015) / IEC 60068 -3 -3: 2019 / IEC 60068-2-57



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1678	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical / electronic equipment: Substation equipment, Low voltage and high voltage indoor / outdoor switchgear and controlgears, Circuit breakers, Relay, Electrical and Electronic Instruments, Control panels, Relay Panels, Distribution boards, RMU panels, Transformers, Bus ducts, Battery charger, Telecommunication equipment	Dielectric test / High voltage power frequency test / Voltage test as conditional check	IEC 62271- 1:2017+AMD1:2021 / IEC 62271-100:2021 / IEC 62271-201:2014 / IEC 62271-201:2014 / IEC 62271-203:2022 / IEC 61439-1:2020 / IEC 61439-6:2012 / IEC 60571:2012 / IEC 60947-1:2020 / (Withdrawn standard) IEEE 344:2013 / IEC/IEEE 60980-344:2020 / IS 12448, Part 2, Section 4 : 1988, RA:2016 / IEEE 693:2018 / ICC-ES AC156 : 2010 (Editorially revised May 2015) / IEC 60068 -3 -3: 2019 / IS 15999-Part 1:2021 IEC 60034-1:2017 IEC 60068-2-57
1679	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical and Electronic equipment, Control and Relay panels and Mechanical components	Resonance search test & Seismic test	ICC-ES AC156 : 2010 (Editorially revised May)
1680	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures, outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etC	Protection against solid foreign objects indicated by the first characteristic numeral) test ranging from IP 1X to IP 6X tests	CL 13 IEC:60529, Edn 2.2 :2013-08: 2013



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1681	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures, Such as outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMV Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly Condulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weatherproof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipt enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Degree of Protection tests for all the electrical equipment enclosures meant for use in dusty and moist areas - which includes the Degree of protection tests for First numeral degree of protection ranging from IP 1X to IP 6X tests and Second numeral degree of protection ranging from IP X1 to IP X9 tests along with IP 51 and IP 54 tests for Energy Metres (Except IP X3 and IP X4 as per Oscillation tube method) Electrical tests / No load run tests / Functional / Performance Tests and Drawing	IS / IEC 60529 2001 IS / IEC 60529 2013 IS / IEC 60947-1 2007 IEC 61439-1 2011 IS 13779 2004 IS 14679 2004 IEC 62052-11 :2003
1682	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures, Such as outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Tests for protection against access to hazardous parts indicated by the additional letter (Optional) test ranging from A to D	CL 15 IS / IEC 60529 : 2001 :2014
1683	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures, Such as outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Tests for protection against access to hazardous parts indicated by the additional letter (Optional) test ranging from A to D	CL 15 IEC:60529, Edn 2.2 :2013-08: 2013



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1684	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures, Such as outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Tests for protection against access to hazardous parts indicated by the first characteristic numeral test ranging from IP 1X to IP 6X tests	CL 12 IEC:60529, Edn 2.2 :2013-08 :2013
1685	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures, Such as outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Tests for protection against access to hazardous parts indicated by the first characteristic numeral test ranging from IP 1X to IP 6X tests (Except IP X3 and IP X4 as per Oscillation tube method)	CL 12 IS / IEC 60529 : 2001 RA :2014
1686	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures, Such as outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Tests for protection against solid foreign objects indicated by the first characteristic numeral test ranging from IP 1X to IP 6X tests (Except IP X3 and IP X4 as per Oscillation tube method)	CL 13 IS / IEC 60529 : 2001 RA :2014



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1687	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures, Such as outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etC	Tests for protection against solid foreign objects indicated by the first characteristic numeral) test ranging from IP 1X to IP 6X tests	CL 13 IEC:60529, Edn 2.2 :2013-08: 2013
1688	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures, Such as outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Tests for protection against water indicated by the second characteristic numeral test ranging from IP X1 to IP X9	CL 14 IEC:60529, Edn 2.2 :2013-08: 2013
1689	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures, Such as outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Tests for protection against water indicated by the second characteristic numeral test ranging from IP X1 to IP X9 (Except IP X3 and IP X4 as per Oscillation tube method)	CL 14 IS IEC 60529 : 2001 RA :2014



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1690	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures: Outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMV Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly Condulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weatherproof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipt enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Degree of Protection for electrical equipment enclosures meant for use in dusty and moist areas which includes Degree of protection tests for First numeral degree of protection ranging from IP 1X to IP 6X test and Second numeral degree of protection ranging from IP X1 to IP X9 tests along with IP 51 and IP 54 tests for Energy Metres Electrical tests/No load run tests/Functional/Performance Tests and Drawings/Dimensional verifications (Except IP X3 and IP X4 as per Oscillation tube method)	IS / IEC 60529:2001, IS / IEC 60529 2013 IS / IEC 60947-1 2007, IEC 61439-1 2011, IS 13779 2004, 13779 2020,IS 14679 2004, IS 14697 2021,IEC 62052-11:2003
1691	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures: Outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Protection against access to hazardous parts indicated by the additional letter test ranging from A to D	CL 15 IS / IEC 60529 : 2001 :2014



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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
1692	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures: Outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Protection against solid foreign objects indicated by the first characteristic numeral test ranging from IP 1X to IP 6X tests (Except IP X3 and IP X4 as per Oscillation tube method)	CL 13 IS / IEC 60529 : 2001 RA :2014
1693	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures: Outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Protection against water indicated by the second characteristic numeral test ranging from IP X1 to IP X9	CL 14 IEC:60529, Edn 2.2 :2013-08: 2013
1694	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures: Outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Protection against water indicated by the second characteristic numeral test ranging from IP X1 to IP X9 (Except IP X3 and IP X4 as per Oscillation tube method)	CL 14 IS / IEC 60529 : 2001 RA :2014



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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
1695	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical equipment enclosures: outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Tests for protection against access to hazardous parts indicated by the first characteristic numeral test ranging from IP 1X to IP 6X tests (Except IP X3 and IP X4 as per Oscillation tube method)	CL 12 IS / IEC 60529 : 2001 RA :2014
1696	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, control and relay panels, mechanical components, structures and other articles	Continuous sine test & Decaying sine test	(Withdrawn standard) IEEE 344:2013 / IEC/IEEE 60980-344
1697	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, control and relay panels, mechanical components, structures and other articles	Resonance search test, Vibration response test & Sine sweep test	IEC 60068-2-57:2013 / (Withdrawn standard) IEEE 344:2013 / IEC/IEEE 60980-344:2020 / IEC 60068 -3 -3
1698	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, control and relay panels, mechanical components, structures and other articles	Sine beat test	IEC 60068-2-57:2013 / (Withdrawn standard) IEEE 344:2013 / IEC/IEEE 60980-344:2020 / IEC 60068 -3 -3
1699	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, control and relay panels, mechanical components, structures and other articles	Time history test, Multi axis test, Multi-frequency test, S1- Earthquake & S2-Earthquake testing, OBE test & SSE test	IEC 60068-2-57:2013 / (Withdrawn standard) IEEE 344:2013 / IEC/IEEE 60980-344:2020 / IEC 60068 -3 -3
1700	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles	Bump test (half sine)	(Withdrawn Standard)Test Number 5 of JSS 5555:2012 / Test Number 5 of JSS 55555
1701	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles	Cold test / Low Temeperature Test / Temperature (cold)	IS/IEC 60068-2-1:2007 / IEC 60068-2-1: 2007/ (Withdrawn Standard)Test Number 20 of JSS 55555:2012 / Test Number 20 of JSS 5555:2020/ IEC 60947-1
1702	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles	Damp heat steady state test	IEC 60068-2-78:2012 / IS 9000, Part 4:2020 / (Withdrawn Standard)Test Number 10 of JSS 5555:2012 / Test Number 10 of JSS 5555



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1703	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles	Dry Heat test / High Temperature / Temperature (Dry heat)	IEC 60068-2-2:2007 / IS 9000, Part 3, Section 1 to 5:1977, RA:2019 / (Withdrawn Standard)Test Number 17 of JSS 55555:2012 / Test Number 17 of JSS 55555:2020 / IEC 60947-1
1704	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles	Endurance test / Sinusoidal Vibration Test	IEC 60068-2-6:2007, IS / IEC 60068-2-6:2007 / Test Method 514.8 of MIL-STD-810H:2019 / Test Method 201A of MIL- STD-202H:2015 / (Withdrawn Standard) Test Number 28 of JSS 55555:2012 / Test Number 28 of JSS 55555:2020 / IEC 60947-1
1705	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles	Resonance search test / response investigation	IEC 60068-2-6:2007, IS / IEC 60068-2-6:2007 / Test Method 514.8 of MIL-STD-810H:2019 / Test Method 201A of MIL- STD-202H:2015 / (Withdrawn Standard)Test Number 28 of JSS 55555:2012 / Test Number 28 of JSS 55555:2020 / IEC 60947-1
1706	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles	Shock test / Impact - Shock Test, (Half sine, Saw tooth, Triangle and Trapezoid pulse)	IEC 60068-2-27:2008 / IS 9000, Part 7, Section 1: 2018 IEC 60068-2-27:2008 RA 2021 / (Withdrawn Standard)Test Number 24 of JSS 55555:2012 / Test Number 24 of JSS 55555:2020 / Test- Method 516.8 of MIL-STD-810H:2019 / Test Method 213B of MIL- STD-202H:2015 / IEC 60947-1
1707	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles	Temperature cycling test and Change of temperature test	IS/IEC 60068-2-14:2009 / IEC 60068-2-14: 2023 / (Withdrawn Standard) Test Number 22 of JSS 55555:2012 / Test Number 22 of JSS 55555
1708	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles	Vibration response investigation / Resonance search test & Random Vibration Test	IEC 60068-2-64:2008, AMD1:2019(Gaussian distribution) / (Withdrawn Standard)Test Number 28 of JSS 55555:2012 / Test Number 28 of JSS 55555:2020 / MIL- HDBK-2164A:1996 / Test Method 514.8 of MIL- STD-810H:2019 / Test Method 214A of MIL-STD-202H



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1709	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Resonanace search test , Shock and vibration tests	(Withdrawn standard) IEC 61373 :1999 / IEC 61373:2010 / IEC 60571
1710	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Resonance search test, Shock and vibration tests	(Withdrawn standard) IEC 61373 :1999 / IEC 61373
1711	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels, Rolling Stock equipment for Railway applications and other articles	Bump test-Half sine pulse	(Withdrawn Standard)Test number 5-JSS 5555:2012 / Test number 5-JSS 55555
1712	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels, Rolling Stock equipment for Railway applications and other articles	Endurance test	IEC 60068-2-6:2007 / IEC 62271- 1:2017+AMD1:2021 / (Withdrawn Standard) Test Number 28 of JSS 55555:2012 / Test Number 28 of JSS 55555:2020 / IS / IEC 60068-2-6:2007 / IEC 60947-1
1713	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels, Rolling Stock equipment for Railway applications and other articles	Resonance search test / Vibration response investigation	IEC 60068-2-6:2007 / IEC 62271- 1:2017+AMD1:2021 / (Withdrawn Standard) Test number 28 of JSS 55555 : 2012 / Test number 28 of JSS 55555 : 2020 / IS / IEC 60068-2-6:2007 / IEC 60947-1
1714	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels, Rolling Stock equipment for Railway applications and other articles	Shock test-Half sine pulse	IEC 60947-1: 2020 / (Withdrawn Standard) Test number 24 of JSS 55555:2012 / Test number 24 of JSS 55555
1715	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels, Rolling Stock equipment for Railway applications and other articles	Shock test-Half sine, Saw tooth & Trapezoidal pulse	IEC 60068-2-27:2008 / IS 9000, Part 7, Sec-1:2018 IEC 60068-2-27:2008 RA
1716	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels, Rolling Stock equipment for Railway applications and other articles	Vibration response investigation & Random vibration test	(Gaussian Distribution) IEC 60068-2-64:2008+AMD1
1717	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment,	Damp heat cyclic test	IEC 60068-2-30:2005 / IS 9000, Part 5, Section 1 & 2:1981, RA: 2019 / (Withdrawn Standard)Test Number 10 of JSS 55555:2012 / Test Number 10 of JSS 55555:2020 / IEC 60947-1
1718	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, Relays, Relay Panels, Mechanical Components, Structures and other articles	Continuous sine test and Decaying sine test	(Withdrawn standard) IEEE 344:2013 / IEC/IEEE 60980-344



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1719	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, Relays, Relay Panels, Mechanical Components, Structures and other articles	Resonance search test, Vibration response investigation & Sine sweep test	(Withdrawn standard) IEEE 344:2013 / IEC/IEEE 60980-344:2020 / IEC 60068-3-3:2019 / IEC 60068-2-57
1720	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, Relays, Relay Panels, Mechanical Components, Structures and other articles	Seismic qualification test & Time history test (Uni-axial)	(Withdrawn standard) IEEE 344:2013 / IEC/IEEE 60980-344:2020 / IEC 60068-3-3:2019 / IEC 60068-2-57
1721	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, Relays, Relay Panels, Mechanical Components, Structures and other articles	Sine beat test	(Withdrawn standard) IEEE 344:2013 / IEC/IEEE 60980-344:2020 / IEC 60068-3-3:2019 / IEC 60068-2-57
1722	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Dry Heat Test	IEC 60068-2-2
1723	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Dry Heat Test	IEC 60068-2-2
1724	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Ball pressure test	IEC 60695-10-2:
1725	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Damp Heat (Cyclic) test	"IEC 60068-3-1:2023, IS 9000-5:1981 RA:2019"
1726	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Damp Heat (Steady State) test	IEC 60068-2-78:2012, IS 9000-4:2020
1727	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Damp heat cyclic test	IEC 60571
1728	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Dry Heat test	"IS 9000-3:1977 RA:2019, IEC 60068-2-2:2007, IEC 60068-2-14: 2023"
1729	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Bolling stock equipment	Dry heat test	IEC 60571



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1730	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Environmental test- Cold test	IEC 60068-2- 1 Ed6.0 (2007-03)(Cl.5,6) IS 9000 (Part- II) Sec. 1 to 4
1731	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Environmental test- Cold test	IEC 60068-2- 1 Ed6.0 (2007-03)(Cl.5,6) IS 9000 (Part- II) Sec. 1 to 4
1732	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Environmental test- Cold test	IEC 60068-2 cl.5,6, IS 9000 (part 2)
1733	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Environmental test- composite temperature-Humidity cycle test	IS 9000 part 6 2004, IEC 60068-2
1734	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Environmental test- composite temperature-Humidity cycle test	IS 9000 part 6 2004, IEC 60068-2
1735	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Environmental test- Damp Heat cyclic	IEC 60068-2-30 2005 cl.5.6, IS 9000 (part 5)
1736	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Environmental test- Damp Heat cyclic	IEC 60068-2-30 2005 cl.5.6, IS 9000 (part 5)
1737	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Environmental test- Damp Heat steady state	IEC 60068-2-78 2012 cl.4.5, IS 9000 (part 4)
1738	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Environmental test- Damp Heat steady state	IEC 60068-2-78 2012 cl.4.5, IS 9000 (part 4)
1739	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Environmental test- Dry Heat	IEC 60068-2-14 2009-01 cl.7,8 IS 9000 (part-14)
1740	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Environmental test- Dry Heat	IEC 60068-2-14:2023 Cl. 7.8 IS 9000 (part-14)



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1741	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Environmental test- Dry Heat	IEC 60068-2-2 2007-07 cl.5.6, IS 9000 part 3
1742	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Glow wire	IS 11000-2-1:2018 RA:2021, IEC 60695-2-10:2021, IEC 60695-2-11: 2021, IEC 60695-2-12: 2021, IEC 60695-2-13: 2021, IS/IEC 60695-2-10:2021, IS/IEC 60695-2-11: 2021, IS/IEC 60695-2-12: 2021, IS/IEC 60695-2-13: 2021, IEC 62208:2023
1743	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Hammer tests	IEC 62262:2002 Amd-1:2021, IEC 60068-2-75
1744	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Ingress Protection-X9	IEC 60529:1989+AMD1:1999+AMD 2:2013 IEC 60529(Ed.2.2)-2013-08 :2013
1745	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Resonance search test, Shock and vibration tests	(Withdrawn standard) IEC 61373 :1999 / IEC 61373
1746	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Salt mist test	IEC 60068-2-66:1994, IEC 60068-2-11
1747	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels, Rolling Stock equipment for Railway	Endurance test / Vibration response investigation	IEC 60068-2-6
1748	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels, Rolling Stock equipment for Railway applications and other articles	Shock test-Half sine, Saw tooth & Trapezoidal pulse	IEC 60068-2-27:2008 / IS 9000, Part 7, Sec-1:2018 IEC 60068-2-27:2008 RA
1749	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Electrical, Electronic Instruments, Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels, Rolling Stock equipment for Railway applications and other articles	Vibration response investigation & Random vibration test	(Gaussian Distribution) IEC 60068-2-64:2008+AMD1



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1750	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	12.5TestofProtection Against Penetration of Dust and Water. 12.7.6.4 insulation resistance test 5.2.5 Tests of Protection Against Penetration of Dust and Water 5.4.6.4 Insulation resistance test 6.5 Mechanical Requirements -as per 6.9 and 12.5 of IS 14697. 6.5 Mechanical Requirements - as per 6.9 and 12.5 of IS 13779 6.9 Protection Against Penetration of Dust and Water 12.5 Test of Protection Against Penetration of Dust and Water 12.7.6.4. insulation resistance test Electrical t	IS 13779: 2020, IS 14697: 2021, IS 15884 :2010, RA 2015, IS 16444 (part 2) :2017, IS 16444 (part 1):2015, Ra 2020, RA 2017 IEC 62052-11, 2020, IEC 62053-11: 2003+A1:2016, IEC 62053-21: 2020, IEC 62053-22:2020,CBIP TR 325:2015, IEC 62052-31:2015, IEC 62053-24:2020, IEC 62055-31:2005
1751	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	AC POWER FREQUENCY VOLTAGE TEST	CL 6.10.4.3.4 IEC 62052-3 :2015
1752	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	INSULATION RESISTANCE TEST	cl 12.7.6.4 IS 13779 :1999 RA :2014
1753	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	INSULATION RESISTANCE TEST	cl 12.7.6.4 IS 13779 :1999 RA :2014
1754	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	INSULATION RESISTANCE TEST	CL 12.7.6.4 IS 14697:1999 :2014
1755	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	INSULATION RESISTANCE TEST	CL 12.7.6.4 IS 14697:1999 :2014
1756	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	Insulation resistance test	CL 5.4.6.4 IS 15884 :2010 RA :2016
1757	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	Insulation resistance test	CL 5.4.6.4 IS 15884 :2010 RA :2016
1758	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	INSULATION RESISTANCE TEST	CL 7.3 IEC 62052-11 :2003
1759	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	INSULATION RESISTANCE TEST	CL 7.3 IEC 62052-11 :2003
1760	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	Mechanical Requirements	CL 5 IEC 62053-23 :2003



Validity

National Accreditation Board for **Testing and Calibration Laboratories**

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1761	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	Mechanical Requirements	CL 5 IEC 62053-21 :2003
1762	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	Mechanical Requirements	CL 5 IEC 62053-22 :2003
1763	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	Mechanical Requirements	CL 5 IEC 62053-24 :2014
1764	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	Mechanical Requirements	CL 6.5 IS 16444 :2015
1765	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	Mechanical Requirements	CL 6.5 IS 16444 PART 2 :2017
1766	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	Protection Against Penetration of Dust and Wate	CL 5.10 IEC 62055-31 :2005
1767	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	PROTECTION AGAINST PENETRATION OF DUST AND WATER	CL 5.9 IEC 62052-11 :2003
1768	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	Protection Against Penetration of Dust and Water	CL 5.9 IEC 62052-11:2003 :2016
1769	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	PROTECTION AGAINST PENETTRATION OF DUST AND WATER	CL 6.9 & 12.5 IS 14697:1999 :2014
1770	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	Test of Protection Against Penetration of Dust and Water	CL 11 IEC 62052-31 :2015
1771	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	Test ofProtection Against Penetration of Dust and Water.	cl 12.5 IS 13779 :1999 RA :2014
1772	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy meters, Watthour meters, Trivector meters	Tests of Protection Against Penetration of Dust and Water	CL 5.2.5 IS 15884 :2010 RA :2016



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1773	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy Meters, Watthour meters, Trivector meters, Panel Meters, Smart meters, Prepaid meters (1 phase, 3 phase)	Shock test	(Withdrawn standard) IEC 62052-11:2003+AMD1:2016 / (Withdrawn standard) IEC 62053-21:2003+AMD1:2016 / (Withdrawn standard) IEC 62053-22:2003+AMD1:2016 / (Withdrawn standard) IEC 62053-24:2014+AMD1:2016 / (Withdrawn standard) IS 13779:1999+AMD 1, 2, 3, 4 & 5,RA:2014 / (Withdrawn standard) IEC 62055-31: 2005/ (Withdrawn standard) IS 14697:1999+AMD 1, 2, 3 & 4, RA
1774	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy Meters, Watthour meters, Trivector meters, Panel Meters, Smart meters, Prepaid meters (1 phase, 3 phase)	Vibration Test	(Withdrawn standard) IEC 62052-11:2003+AMD1:2016 / (Withdrawn standard) IEC 62053-21:2003+AMD1:2016 / (Withdrawn standard) IEC 62053-22:2003+AMD1:2016 / (Withdrawn standard) IEC 62053-24:2014+AMD1:2016 / (Withdrawn standard) IS 13779:1999+AMD 1, 2, 3, 4 & 5,RA:2014 /(Withdrawn standard) IEC 62055-31: 2005/ (Withdrawn standard) IS 14697:1999+AMD 1, 2, 3 & 4, RA
1775	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy Meters, Watthour meters, Trivector meters, Panel Meters, Smart meters, Prepaid meters (1 phase, 3 phase)	Shock Test	IEC 62052-11:2020 / IEC 62053-11:2003+A1:2016 / IEC 62053-21:2020 / IEC 62053-22:2020 / IEC 62053-22:2020 / IEC 62053-24:2020 / IEC 62055-31:2022 / IS 13779:2020 / IS 14697:2021 / IS 15884:2010, RA 2016 / IS 16444, PART 1:2015, RA2020 / IS 16444, PART 2:2017 / CBIP TR 325


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1776	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Energy Meters, Watthour meters, Trivector meters, Panel Meters, Smart meters, Prepaid meters (1 phase, 3 phase)	Vibration Test	IEC 62052-11:2020 / IEC 62053-11: 2003+A1:2016 / IEC 62053-21: 2020 / IEC 62053-22: 2020 / IEC 62052-31: 2015 / IEC 62055-31: 2005 / IEC 62055-31: 2005 / IS 13779:2020 / IS 14697:2021 / IS 15884 : 2010, RA 2016 / IS 16444 (PART 1) : 2015, RA2020 / IS 16444 (PART 2) : 2017 / IEC 62055-31: 2022/CBIP TR 325
1777	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Equipment, components, PCB, MCB, ACB Rack mounted Equipment, Instrument/ Equipment panels and other articles for Railway applications-Rolling stock equipment	Cold start test and Low temperature sElectrical, Electronic Instruments, torage test	IEC 60571
1778	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	High voltage AC Circuit breakers	High temperature test on vacuum circuit breaker	IEC 62271-1 2011-08,Cl.6.101.3&4- IEC 62271-100
1779	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	High voltage AC circuit breakers	Low temperature test on vacuum circuit breaker	IEC 62271-1 2011-08, IEC 62271-100 cl.6.101.3
1780	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	HIGH-VOLTAGE SWITCHGEAR AND CONTROLGEAR	5.13.1 Protection of persons against access to hazardous parts and protection of the equipment against ingress of solid foreign objects 5.13.2 Protection against ingress of water 5.13 DoP by enclosures 5.13.1 Protection of persons against access to hazardous parts and protection of the equipment against ingress of solid foreign objects 5.13.2 Protection against ingress of water 6.14.2 Protection of persons against access to hazardous parts and protection of the equipment against ingress of	IS/IEC 62271-1 : 2007, RA 2018, IS/IEC 62271-100: 2008, RA 2017, IS/IEC 62271-102 : 2018, IS/IEC 62271-200 2011 RA 2018, BIS IS/IEC 62271 : PART 202 : 2014, IEC 62271-11: Ed.2.0:2021, IEC 62271-100: Ed.3.0:2021, IEC 62271-200: Ed.3.0:2021; IEC 62271-200; Ed.2.0-2011;,



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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
1781	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	HIGH-VOLTAGE SWITCHGEAR AND CONTROLGEAR	5.13.1 Protection of persons against access to hazardous parts and protection of the equipment against ingress of solid foreign objects 5.13.2 Protection against ingress of water 6.2.10 Dielectric test on Auxiliary and Control circuits 6.7.1 DoP by enclosures 6.2.10 Dielectric test on Auxiliary and Control circuits 5.13.1 Protection of persons against access to hazardous parts and protection of the equipment against ingress of solid foreign objects 5.13.2 Protection against ingress of wate	cl 5.13.1, 5.13.2, 6.2.10, 6.7.1, 6.2.10, 5.13.1, 5.13.1 of IS / IEC 62271-1 : 2007, RA 2018 IS / IEC 62271-100: 2008, RA 2017 IS / IEC 62271-102 : 2018 IS / IEC 62271-200 2011 RA 2018 BIS IS / IEC 62271 : PART 202 : 2014 IEC 62271-10 Ed.2.0:2021 IEC 62271-100: Ed.3.0:2021 IEC 62271-200; Ed.3.0:2021 IEC 62271-200; Ed.2.0 I 2011 IEC 62271-202 Ed.2.0 :2014
1782	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	i. Solar Inverter (upto 10 kW) ii. UPS (upto 10 kW) iii. LED lamps and luminaries iv.Fan test	Dry Heat Test	IEC 60068-2-2 cl.5.2 & 6.0
1783	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	i. Solar Inverter (upto 10 kW) ii. UPS (upto 10 kW) iii. LED lamps and luminaries iv.Fan test	a. Cold test	IEC 60068-2-1 cl.5.2 & 6.0
1784	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	i. Solar Inverter (upto 10 kW) ii. UPS (upto 10 kW) iii. LED lamps and luminaries iv.Fan test	a. Damp Heat Cyclic Test (12 h+12 h cycle)	IEC 60068-2-30 cl. 7.3
1785	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	i. Solar Inverter (upto 10 kW) ii. UPS (upto 10 kW) iii. LED lamps and luminaries iv.Fan test	a. Change of temperature test	IEC 60068-2-14 cl.8.0
1786	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	indoor / outdoor switchgear and controlgears, Circuit breakers, RMU.	Circuit breaker no load opening time, closing time, measurement	IEC 62271- 1:2017+AMD1:2021 / IEC 62271-100:2021 / IEC 62271-200:2021 / IEC 62271-201:2014 / IEC 62271-203:2022 / IEC TR 62271-300: 2006 / (Withdrawn Standard)IEC TS 62271-210: 2013 / IEC 62271-207:2023 / IEEE 693
1787	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	indoor / outdoor switchgear and controlgears, Circuit breakers,RMU	Pressure Drop Test	IEC 62271- 1:2017+AMD1:2021 / IEC 62271-100:2021 / IEC 62271-200:2021 / IEC 62271-201:2014 / IEC 62271-203:2022 / IEC TR 62271-300:2006 / (Withdrawn Standard)IEC TS 62271-210: 2013 / IEC 62271-207:2023 / IEEE 693

This is annexure to 'Certificate of Accreditation' and does not require any signature.



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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
1788	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Ingress protection tests for all types of electrical equipment enclosures, Such as outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Tests for protection against access to hazardous parts indicated by the first characteristic numeral (Cl. 12) test ranging from IP 1X to IP 6X tests Tests for protection against solid foreign objects indicated by the first characteristic numeral (Cl 13) test ranging from IP 1X to IP 6KXtests Tests for protection against water indicated by the second characteristic numeral (Cl. 14) test ranging from IP X1 to IP X9K. Tests for protection against access to hazardous parts indicated by the a	DIN 40050 PART 9
1789	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Ingress protection tests for all types of electrical equipment enclosures, Such as outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Tests for protection against access to hazardous parts indicated by the first characteristic numeral (Cl. 12) test ranging from IP 1X to IP 6X tests Tests for protection against solid foreign objects indicated by the first characteristic numeral (Cl 13) test ranging from IP 1X to IP 6X tests Tests for protection against water indicated by the second characteristic numeral (Cl. 14) test ranging from IP X1 to IP X9. Tests for protection against access to hazardous parts indicated by the ad	IS/IEC 60529
1790	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Ingress protection tests for all types of electrical equipment enclosures, Such as outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Tests for protection against access to hazardous parts indicated by the first characteristic numeral (Cl. 12) test ranging from IP 1X to IP 6X tests Tests for protection against solid foreign objects indicated by the first characteristic numeral (Cl 13) test ranging from IP 1X to IP 6X tests Tests for protection against water indicated by the second characteristic numeral (Cl. 14) test ranging from IP X1 to IP X9. Tests for protection against access to hazardous parts indicated by the add	IS/IEC 60529 : 2001 (REAFFIRMED 2019) IEC:60529, Edn 2.2 :2013-08



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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
1791	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Ingress protection tests for all types of electrical equipment enclosures, Such as outdoor distribution boards. Relay units /panels. Control cubicles for PCVCB, switching and Control System Enclosures, RMU Panels, HT metering and switching panels, AC Distribution Board, EWM Enclosure, Platform power supply, LT Panel, disconnecting switch assembly consulate, Junction Boxes, LV Switch Board, AC/DC Panel, Weather proof switch Enclosure, Dry Type Transformer Enclosure, PCC Panel. MCC Panel, Bus Ducts, DOL Starter, Integral Starter, Control Panels, Electricity metering equipment enclosures, Actuators, Telecom equipment enclosures, Antennas, Cables, Connector Assembly, GPRS Equipment enclosures, Battery charge Panels, Medical Health Monitoring Equipment enclosures, Drive Mechanism Box, Marshalling Kiosks, Surge monitors, MOMs, Belt sway switch enclosures, Reactor Assembly enclosures, Starter Motors, Soft starters Panels, RAPCONS, BAPCONS, etc	Tests for protection against access to hazardous parts indicated by the first characteristic numeral (Cl. 12) test ranging from IP 1X to IP 6X tests Tests for protection against solid foreign objects indicated by the first characteristic numeral (Cl 8 test ranging from IP 1X to IP 6K tests Tests for protection against water indicated by the second characteristic numeral (Cl. 9) test ranging from IP X1 to IP X9K. Tests for protection against access to hazardous parts indicated by the addi	ISO 20653
1792	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Ingress Protection tests for all Types of rotating electrical machinery equipment enclosures Such as enclosures of induction Motor, Wall Actuators, DC Machines, AC Machines, Alternators, Generators, Vibratory Electric Motors, Large Motors, Automobile Electrical Motors, Traction Motors, Power Tools Motors, Pumps(Motors), etc	Cl 8- tests for first characteristic numeral ranging from IP 1X to IP 6X tests and cl.9 - tests for Second numeral degree of protection ranging from IP X1 to IP X8 tests, Electrical tests / No load run tests / Functional / Performance Tests and Drawings / Dimensional verifications	IS/IEC 60034 : PART 5 : 2000 (REAFFIRMED 2018) IEC:60034-5 Edition 4.1, 2006-11, protection shall be verified in accordance with IS / IEC 60529
1793	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Ingress Protection tests for all Types of SAFETY OF POWER CONVERTERS FOR USE IN PHOTOVOLTAIC POWER SYSTEMS Luminaries and lighting ?tting equipment enclosures Such as Street Light Fitting Enclosures, Aviation Lights ?tting Enclosures, Domestic and Industrial Light Fitting Enclosures, Railway Light Enclosures, Corridor / O?ce Light Fitting Enclosures, Solar Light Fitting Enclosures, etc	tests for first characteristic numeral ranging from IP 1X to IP 6X tests and cl.9 - tests for Second numeral degree of protection ranging from IP X1 to IP X9 tests, Electrical tests / No load run tests / Functional / Performance Tests and Drawings / Dimensional verifications tests for first characteristic numeral ranging from IP 1X to IP 6X tests and section .9.2 - tests for Second numeral degree of protection ranging from IP X1 to IP X8 tests, 10.2.1 Test-Insulation Resistance 10.2.2	IS 16221 : PART 1 : 2016, IS 16221 : PART 2 : 2015 (REAFFIRMED 2020) IS 10322 (Part 1) : 2014, RA 2019 IS 10322 part 4 2005 IS : 10322 (Part 5/Sec 4) - 1987 , RA 2020 IEC 60598-1 :2014



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1794	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Ingress Protection tests for all Types of SAFETY OF POWER CONVERTERS FOR USE IN PHOTOVOLTAIC POWER SYSTEMS	tests for first characteristic numeral ranging from IP 1X to IP 6X tests and cl.9 - tests for Second numeral degree of protection ranging from IP X1 to IP X9 tests, Electrical tests / No load run tests / Functional / Performance Tests and Drawings / Dimensional verifications	IS 16221 : PART 1 : 2016, IS 16221 : PART 2 : 2015 (REAFFIRMED 2020)
1795	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Insulated cables and their accessories for power systems – Insulation piercing connectors, Anchoring Devices, Suspension Equipment's, Covered conductors for overhead lines and the related accessories for rated voltages above 1 kV a.c. and not exceeding 36 kV a.c.	Weathering test, Climatic ageing test, UV weathering test, Environmental test	NFC 33 040 : 2013, NFC 33 020 : 2013, NFC 33 042 : 2013, EN 50397-2:2022
1796	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Insulated cables and their accessories for power systems – Insulation piercing connectors, Anchoring Devices, Suspension Equipment's, Lightning protection system components, Covered conductors for overhead lines and the related accessories for rated voltages above 1 kV a.c. and not exceeding 36 kV a.c.	Humid sulphurous atmosphere test, Conditioning and ageing, Corrosion resistance, Sulphurous atmosphere test	NFC 33 040 : 2013, NFC 33 020 : 2013, NFC 33 042 : 2013, IEC 62561-1:2023, EN 50397-2:2022
1797	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR ,CONTROL CIRCUIT DEVICES AND SWITCHING ELEMENTS,: PROXIMITY SWITCHES	7.1.11 Degrees of protection of enclosed equipment tests as per Appendix C. 7.1.10 Degree of protection 8.2 Compliance with constructional requirements Electrical tests / No load run tests / Functional / Performance Tests and Drawings / Dimensional verifications	cl 7.1.11, 7.1.10 , 8.2 of IS 13947: PART1 IS 13947 : PART 5 : SEC 2 IS and IEC 60947 with latest amendments :2004
1798	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Low-voltage switchgear and controlgear – Part 1: General rules Part 2: Circuit-breakers Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units	8.2.3 Enclosures for equipment- the degrees of protection of enclosed equipment as in Annex C. Electrical tests / No load run tests / Functional / Performance Tests and Drawings / Dimensional verifications	IS/IEC 60947-1: 2007, RA 2017, IS/IEC 60947-2 : 2016, BIS IS/IEC 60947 : PART 3 : 2012 (RA 2018), IS/IEC 60947-5-1 : 2009, RA 2018, IEC 60947-1; Ed.6.0:2020, IEC 60947-2 ; amd-1 Ed.5.0-2019, IEC 60947-5-1; Ed.4.0-2016, IEC 60947-5-2; Ed.3.0-2007



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1799	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR ASSEMBLIES -	8.2 Degree of protection provided by an ASSEMBLY enclosure 10.3 Degree of protection of ASSEMBLIES 8.101 Internal separation of PSC-ASSEMBLIES 8.2.101 PSC- ASSEMBLY with withdrawable parts Electrical tests / No load run tests / Functional / Performance Tests and Drawings / Dimensional verifications	IS/IEC 61439- PART 1 : 2011, IS/IEC 61439 - PART 2 : 2011, RA 2018, IS/IEC 61439 : PART 5 : 2014 , IS/IEC 61439 : PART 6 : 2012, IEC 61439-1, Ed.3.0:2020, IEC 61439-2; Ed.3.0:2020
1800	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Low-voltage switchgear and controlgear, Circuit-breakers, Switches, disconnectors, switch-disconnectors and fuse- combination units	8.2.3 Enclosures for equipment- the degrees of protection of enclosed equipment as in Annex C. Electrical tests / No load run tests / Functional / Performance Tests and Drawings / Dimensional verifications	cl 8.2.3 IS / IEC 60947-1: 2007, RA 2017 IS / IEC 60947-2 : 2016 BIS IS / IEC 60947-2 : 3 : 2012 (RA 2018) IS / IEC 60947-5-1 : 2009, RA 2018 IEC 60947-1; Ed.6.0:2020 IEC 60947-2 ; amd-1 Ed.5.0-2019 IEC 60947-5-1; Ed.4.0-2016 IEC 60947-5-2; Ed.3.0 :2007
1801	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Luminaries and lighting fitting equipment enclosures Such as Street Light Fitting Enclosures, Aviation Lights fitting Enclosures, Domestic and Industrial Light Fitting Enclosures, Railway Light Enclosures, Corridor / Office Light Fitting Enclosures, Solar Light Fitting Enclosures, etc.	Degree of Protection tests for lighting / luminaire enclosures meant for use in dusty and moist areas. Which includes first numeral degree of protection test for Solid object proof luminaries (IP 2X, 3X and 4X); Dust proof luminary (IP5X), Dust tight luminary (IP 6X) Second numeral degree of protection tests for drip proof, Rain Proof (IPX1 and IPX2), Splash proof(IPX3 and IPX4), Jet proof (IPX5 and IPX6), Water tight (IPX7) and pressure water tight tests(IPX8) along with electrical streng	IS 10322 part 4 2005 IEC 60598-1 :2014
1802	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Measuring Relays and Protection Equipment	Bump test	IEC 60255-21-2
1803	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Measuring Relays and Protection Equipment	Shock response test	IEC 60255-21-2
1804	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Measuring Relays and Protection Equipment	Shock withstand test	IEC 60255-21-2
1805	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Measuring Relays and Protection Equipment	Vibration endurance test	IEC 60255-21-1

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1806	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Measuring Relays and Protection Equipment	Vibration response test	IEC 60255-21-1	
1807	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Measuring relays and protection equipment	Functional verification	IEC 60255-1:2022/ IEC 61810-7	
1808	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Measuring relays and protective equipment	Single axis sine sweep seismic test	IEC 60255-21-3	
1809	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Model capacitors of grading capacitor	Tightness test at different temperatures	IEC 62146-1 cl.8.9	
1810	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Model capacitors of grading capacitor	Tightness test at different temperatures	IEC 62146-1 cl.8.9	
1811	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Motors&Pumps	Speed Measurement	Cl. 3.2.4 of IS 11346:2002, RA	
1812	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Polymeric Outdoor HV Insulator	Accelerated Weathering Test	IEC 61109:2008 / IEC 62217-2012	
1813	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Power Conditioning Unit	Humidity Conditioning test	IS 16221-2:2015 / IEC 62109-2 Cl. 6	
1814	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Power Conditioning Unit	Temperature and Humidity test	IS 16221-2:2015 / IEC 62109-2 Cl. 6	
1815	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Power Conditioning unit	Temperature range test	Cl. 6 of IS 16221-2:2015 IEC 62109-2	
1816	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Power Conditioning unit	Thermal & Humidity preconditioning,	Cl. 4.3 & 4.5 of IS 16221-1:2016 IEC 62109-1	
1817	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Power Conditioning unit	Thermal test (temperature rise test)	IS 16221-1:2016 / IEC 62109-1 Cl. 4.3 & 4.5	
1818	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Power Conditioning unit	U V exposure	IS 16221-1:2016 / IEC 62109-1 Cl 6.4	
1819	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Relays & protective instrument	Seismic test - Bi-axial	IEC 60255-21-3	



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1820	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Rotating electrical machinery equipment enclosures of induction Motor, Wall Actuators, DC Machines, AC Machines, Alternators, Generators, Vibratory Electric Motors, Large Motors, Automobile Electrical Motors, Traction Motors, Power Tools Motors, Pumps(Motors), etc,	Degree of Protection tests for all rotating electrical equipment enclosures meant for use in dusty and moist areas. Which includes the Degree of protection tests for – First numeral degree of protection ranging from IP 1X to IP 6X tests and Second numeral degree of protection ranging from IP X1 to IP X9 tests, Electrical tests / No load run tests / Functional / Performance Tests and Drawings / Dimensional verifications.	IS / IEC 60034-5 2000 IEC 60034-5 :2006
1821	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Rotating electrical machinery equipment enclosures: Enclosures of induction Motor, Wall Actuators, DC Machines, AC Machines, Alternators, Generators, Vibratory Electric Motors, Large Motors, Automobile Electrical Motors, Traction Motors, Power Tools Motors, Pumps(Motors), etc	cl. 8 Tests for first characteristic numeral ranging from IP 1X to IP 6X tests and cl.9 tests for Second numeral degree of protection ranging from IP X1 to IP X9 tests, Electrical tests / No load run tests / Functional / Performance Tests and Drawings / Dimensional verifications (Except IP X3 and IP X4 as per Oscillation tube method)	cl 8 IS / IEC:60034-5 :2000, IEC:60034-5 Edition 4.1, 2006-11, protection shall be verified in accordance with IS / IEC 60529 :2006
1822	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Rotatory Electrical machinery equipment enclosures Such as enclosures of induction Motor, Wall Actuators, DC Machines, AC Machines, Alternators, Generators, Vibratory Electric Motors, Large Motors, Automobile Electrical Motors, Traction Motors, Power Tools Motors, Pumps(Motors), etc	Cl 8- tests for first characteristic numeral ranging from IP 1X to IP 6X tests and cl.9 - tests for Second numeral degree of protection ranging from IP X1 to IP X9 tests (Except IP X3 and IP X4 as per Oscillation tube method) Electrical tests / No load run tests / Functional / Performance Tests and Drawings / Dimensional verifications	cl 8 IS / IEC:60034-5 :2000 IEC:60034-5 Edition 4.1, 2006-11, protection shall be verified in accordance with IS / IEC 60529 :2006
1823	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Shipping containers and systems	Random vibration test	ASTM D4169-22
1824	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Solar Inverter (upto 10 kW), UPS (upto 10 kW), LED lamps and luminaries, Fan test	Change of temperature test	IEC 60068-2-14 cl.8.0



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		A TEST		
S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
1825	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Solar Inverter (upto 10 kW), UPS (upto 10 kW), LED lamps and luminaries, Fan test	Cold test	IEC 60068-2-1 cl.5.2 & 6.0
1826	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Solar Inverter (upto 10 kW), UPS (upto 10 kW), LED lamps and luminaries, Fan test	Damp Heat Cyclic Test (12 h+12 h cycle)	IEC 60068-2-30 cl. 7.3
1827	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Solar Inverter (upto 10 kW), UPS (upto 10 kW), LED lamps and luminaries, Fan test	Dry Heat Test	cl.5.2 & 6.0 IEC 60068-2-2 : 2007
1828	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Substation equipment and structures	Free oscillation test (Snap back test) Before seismic qualification test	IEC TS 61463
1829	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Substation equipment and structures	Resonance search test & Vibration response test	IEC TR 62271-300:2006 / (Withdrawn Standard) IEC/TS 62271-210:2013 / IEC 62271-207:2023 / IEC 60068 -3 -3: 2019 / IEEE 693:2018 / IEC TS 61463:2016 / IEC 60068-2-57:2013//IEC 61869-1:2023
1830	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Substation equipment and structures	Time history shake table test, Seismic qualification test, S1- Earthquake & S2-Earthquake testing	IEC TR 62271-300:2006 / (Withdrawn Standard) IEC/TS 62271-210:2013 / IEC 62271-207:2023 / IEC 60068 -3 -3: 2019 / IEEE 693:2018 / IEC TS 61463:2016 / IEC 61869-1:2023/ IEC 60068-2-57
1831	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	SWITCHGEAR AND CONTROLGEAR - SPECIFICATION - PART 5 : CONTROL CIRCUIT DEVICES AND SWITCHING ELEMENTS - SECTION 2 : PROXIMITY SWITCHES	7.1.11 Degrees of protection of enclosed equipment tests as per Appendix C. 7.1.10 Degree of protection 8.2 Compliance with constructional requirements Electrical tests / No load run tests / Functional / Performance Tests and Drawings / Dimensional verifications	IS 13947: PART1, IS 13947 (Part 5/See 2): 2004, RA 2019
1832	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Telecommunication equipment & structures	Resonance search test & Seismic test (Zone 1 to Zone 3)	Cl. 5.4 of Telcordia Generic Requirements GR-63-Core Issue 5, December
1833	ELECTRICAL- ENVIRONMENTAL TEST FACILITY	Telecommunication equipment & structures	Resonance search test, Transportation vibration test & Office vibration test	Cl. 5.4 of Telcordia Generic Requirements GR-63-Core Issue 5, December
1834	ELECTRICAL- INDUCTORS & TRANSFORMERS	Conductor and Earth Wire Accessories for Over head Power Lines	Resistance Measurement	IS 2121 part 2 :1981 RA:2018

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1835	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer / Instrument transformer	Accuracy, Current error & phase displacement Turns Ratio	"IS/IEC 16227-1:2016 IS/IEC 16227-2:2016 RA:2021, IS/IEC 16227-4:2015,IEC 61869-1:2023, IEC 61869-2:2012, IEC 61869-4:2013, IS 6949:1973 RA:2016, ANSI/IEEE C57.13 ™: 2016"
1836	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer / Instrument transformer	Knee point voltage & exciting current test	"IS/IEC 16227-1:2016 IS/IEC 16227-2:2016 RA:2021,IS/IEC 16227-4:2015, IEC 61869-1:2023, IEC 61869-2:2012, IEC 61869-4:2013, IS 6949:1973 RA:2016, ANSI/IEEE C57.13 ™: 2016"
1837	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer / Instrument transformer	Over-voltage inter -turn tests	"IS/IEC 16227-1:2016 IS/IEC 16227-2:2016 RA:2021, IS/IEC 16227-4:2015, IEC 61869-1:2023, IEC 61869-2:2012,IEC 61869-4:2013 IS 6949:1973 RA:2016, ANSI/IEEE C57.13 ™: 2016"
1838	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer / Instrument transformer	Power frequency dry withstand tests on primary and secondary windings	"IS/IEC 16227-1:2016 IS/IEC 16227-2:2016 RA:2021, IS/IEC 16227-4:2015,IEC 61869-1:2023, IEC 61869-2:2012, IEC 61869-4:2013, IS 6949:1973 RA:2016, ANSI/IEEE C57.13 ™: 2016"
1839	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer / Instrument transformer	Secondary winding resistance	"IS/IEC 16227-1:2016 IS/IEC 16227-2:2016 RA:2021, IS/IEC 16227-4:2015, IEC 61869-1:2023, IEC 61869-2:2012, IEC 61869-4:2013, IS 6949:1973 RA:2016, ANSI/IEEE C57.13 ™: 2016"
1840	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer / Instrument transformer	Short time current test	"IS/IEC 16227-1:2016 IS/IEC 16227-2:2016 RA:2021, IS/IEC 16227-4:2015, IEC 61869-1:2023, IEC 61869-2:2012, IEC 61869-4:2013, IS 6949:1973 RA:2016, ANSI/IEEE C57.13 ™: 2016"



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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
1841	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer / Instrument transformer	Temperature rise test	"IS 2705:1992 RA:2017,IS/IEC 16227-1:2016 IS/IEC 16227-2:2016 RA:2021,IS/IEC 16227-4:2015, IEC 61869-1:2023, IEC 61869-2:2012, IEC 61869-4:2013,IS 6949:1973 RA:2016, ANSI/IEEE C57.13 ™: 2016"
1842	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current transformer /Instrument transformer	Instrument security current Composite error	IS/IEC 16227-1:2016 IS/IEC 16227-2:2016 RA:2021, IEC 61869-1:2023, IEC 61869-2:2012, IS 6949:1973 RA:2016, ANSI/IEEE C57.13 ™
1843	ELECTRICAL- INDUCTORS & TRANSFORMERS	Instrument Transfomer	Temperature Rise Test	IEC 61869-1 :2023 / IEC 61869-2 :2012 / IEC 61869-3 :2011 / IEC 61869-4 :2013 / IEC 61869-5 :2011 / IS 16227-1:2016 / IS 16227-2:2016 RA 2021 / IS 16227-3:2015 RA 2020 / IS 16227-4:2015 / IS 16227-5:2015 RA:2020
1844	ELECTRICAL- INDUCTORS & TRANSFORMERS	Instrument transformer	Short time current test	IEC 61869-1:2007-10 IEC 61869-2:2012-09 IS 16227 - 1 : 2016 & IS 16227- 2 : 2016 IS:2705-1 RA : 2017 & 2 :1992 RA
1845	ELECTRICAL- INDUCTORS & TRANSFORMERS	Instrument transformer	Short time current test	IEC 61869-1:2007-10 IEC 61869-2:2012-09 IS 16227 - 1 : 2016 & IS 16227-2 : 2016 IS:2705-1 RA : 2017 & 2 :1992 RA :
1846	ELECTRICAL- INDUCTORS & TRANSFORMERS	Instrument transformers, Current transformers, Inductive voltage transformers, Combined transformers, Capacitive voltage transformers	Temperature Rise Test	IEC 61869-1 2007, IEC 61869-2 2012, IEC 61869-3 2011, IEC 61869-4 2013, IEC 61869-5 2011, IS 16227-1:2016, IS 16227-2:2016, IS 16227-3:2015, IS16227-4:2015, IS 16227-5
1847	ELECTRICAL- INDUCTORS & TRANSFORMERS	Line traps for ac. power systems	Measurement of power frequency. Inductance of main coil of line trap.	IEC 60353 1989-11 cl.19.0, IS 8792 1995, cl.4.6, IS 8793 cl.6.2
1848	ELECTRICAL- INDUCTORS & TRANSFORMERS	Line traps for ac. power systems and reactors	Measurement of power frequency. Inductance of main coil of line trap	IEC 60353 1989/AMD1:2002 / IS 8793 / IEC 60076-6-2007 / IEC 60310
1849	ELECTRICAL- INDUCTORS	OLTC transition resistor	Transition impedance test	IEC 60214-1: 2014

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1850	ELECTRICAL- INDUCTORS & TRANSFORMERS	On load tap changers	Short time current test	IS 8468:2018 / IEC 60214-1:2014
1851	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Measurement of impedance voltage/short circuit Impedance and load loss	IS 2026-1:2011 RA:2021, IS 2026-2:2010 RA 2020, IS 2026-3:2018, IS 2026-4:1977 RA:2021, IS 2026-5:2011 RA:2016, IEC 60076-1:2011, IEC 60076-2:2011, IEC 60076-3:2013 Amd-1:2018, IEC 60076-5:2006, IEC 60076-11:2018, IS 1180-1:2014 RA:2019, IS 1180-3:2021, IS 2026-11:2021, IS 12021:2015, IEEE Std C57.12.90™:2021, IEEE Std C57.12.20™:2021, UL 1561:2023
1852	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Measurement of no load loss and current & No load current at 112.5 %	IS 2026-1:2011 RA:2021, IS 2026-2:2010 RA 2020, IS 2026-3:2018, IS 2026-4:1977 RA:2021, IS 2026-5:2011 RA:2016, IEC 60076-1:2011, IEC 60076-2:2011, IEC 60076-3:2013 Amd-1:2018, IEC 60076-5:2006, IEC 60076-11:2018, IS 1180-1:2014 RA:2019, IS 1180-1:2014 RA:2019, IS 1180-3:2021, IS 2026-11:2021, IS 12021:2015, IEEE Std C57.12.90™:2021, IEEE Std C57.12.20™:2021
1853	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Measurement of winding resistance	IS 2026-1:2011 RA:2021, IS 2026-2:2010 RA 2020, IS 2026-3:2018, IS 2026-4:1977 RA:2021, IS 2026-5:2011 RA:2016, IEC 60076-1:2011, IEC 60076-2:2011, IEC 60076-3:2013 Amd-1:2018, IEC 60076-5:2006, IEC 60076-11:2018, IS 1180-1:2014 RA:2019, IS 1180-3:2021, IS 2026-11:2021, IS 12021:2015, IEEE Std C57.12.90™:2021, IEEE Std C57.12.20™:2017, IEEE Std C57.12.00™:2021



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1854	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Determination of sound levels	IS 1180-1:2014 RA:2019, IS 1180-3:2021, IS 2026-10:2009 RA:2019, IEC 60076-10:2016, IEEE Std C57.12.90 ™ : 2021
1855	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Dielectric tests	IS 2026-1:2011 RA:2021, IS 2026-2:2010 RA 2020, IS 2026-3:2018, IS 2026-4:1977 RA:2021, IS 2026-5:2011 RA:2016, IEC 60076-1:2011, IEC 60076-2:2011, IEC 60076-3:2013 Amd-1:2018, IEC 60076-5:2006, IEC 60076-11:2018, IS 1180-1:2014 RA:2019, IS 1180-3:2021, IS 2026-11:2021, IS 12021:2015, IEEE Std C57.12.90 [™] :2021, IEEE Std C57.12.00 [™] :2021, UL 1561:2023
1856	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Induced over voltage withstand test	IS 2026-1:2011 RA:2021, IS 2026-2:2010 RA 2020, IS 2026-3:2018, IS 2026-4:1977 RA:2021, IS 2026-5:2011 RA:2016, IEC 60076-1:2011, IEC 60076-2:2011, IEC 60076-3:2013 Amd-1:2018, IEC 60076-5:2006, IEC 60076-11:2018, IS 1180-1:2014 RA:2019, IS 1180-1:2014 RA:2019, IS 1180-3:2021, IS 2026-11:2021, IS 12021:2015, IEEE Std C57.12.90 [™] :2021, IEEE Std C57.12.00 [™] :2021
1857	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Measurement of insulation resistance	IS 2026-1:2011 RA:2021, IS 1180-1:2014 RA: 2019, IS 1180-3:2021, IS 2026-11:2021, IS 12021:2015, IEEE Std C57.12.90 [™] -2021, IEEE Std C57.12.20 [™] -2017, IEEE Std C57.12.00 [™] : 2021



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1858	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Measurement of voltage ratio and check of voltage vector relationship. (Phase displacement)	IS 2026-1:2011 RA:2021, IS 2026-2:2010 RA 2020, IS 2026-3:2018, IS 2026-4:1977 RA:2021, IS 2026-5:2011 RA:2016, IEC 60076-1:2011, IEC 60076-2:2011, IEC 60076-3:2013 Amd-1:2018, IEC 60076-5:2006, IEC 60076-11:2018, IS 1180-1:2014 RA:2019, IS 1180-3:2021, IS 2026-11:2021, IS 12021:2015, IEEE Std C57.12.90 [™] :2021, IEEE Std C57.12.00 [™] :2021
1859	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Oil leakage test / Ester liquid leakage test	IS 1180-1:2014 RA:2019, IS 1180-3:2021, IEC 60076-1: 2011, IS/IEC 60137:2017, IEC 60137: 2017
1860	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Paint adhesion test	IS 1180-1:2014 RA: 2019 IS 1180-3:2021
1861	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Pressure test	IS 1180-1:2014 RA:2019, IS 1180-3:2021, IEC 60076-1: 2011
1862	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Short circuit tests	IS 2026-1:2011 RA:2021, IS 2026-2:2010 RA 2020, IS 2026-3:2018, IS 2026-4:1977 RA:2021, IS 2026-5:2011 RA:2016, IEC 60076-1:2011, IEC 60076-2:2011, IEC 60076-3:2013 Amd-1:2018, IEC 60076-5:2006, IEC 60076-11:2018, IS 1180-1:2014 RA:2019, IS 1180-3:2021, IS 2026-11:2021, IS 12021:2015, IEEE Std C57.12.90 [™] :2021, IEEE Std C57.12.00 [™] :2021



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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
1863	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Temperature rise test.	IS 2026-1:2011 RA:2021, IS 2026-2:2010 RA 2020, IS 2026-3:2018, IS 2026-4:1977 RA:2021, IS 2026-5:2011 RA:2016, IEC 60076-1:2011, IEC 60076-2:2011, IEC 60076-3:2013 Amd-1:2018, IEC 60076-5:2006, IEC 60076-11:2018, IS 1180-1:2014 RA:2019, IS 1180-3:2021, IS 2026-11:2021, IS 12021:2015, IEEE Std C57.12.90 [™] :2021, IEEE Std C57.12.00 [™] :2021, UL 1561:2023
1864	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers Distribu-tion Trans-formers, Traction transformers, Potential transformers	Measurement of winding resistance	IS 2026 - part 1,2,3,5 2011/2010/2009/2011 IEC 60076 - part 1/2/3/5/10-1, 2011/2011/2013/2006/2016 IS 11171-1985 (Reaffirmed 2016) IEC 60076 - 11 2004 IS 1180 - 1989 (Reaffirmed 2014) IEC 60310 - 2016 IS 3156-1992 (Reaffirmed 2007) IEC 61869-5-2011 IEC 61869-3- 2011 ANSI :C-57.12-00 & .90
1865	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers Distribu-tion Trans-formers, Traction transformers, Potential transformers	measurement of short circuit impedance and loss	IS 2026 - part 1,2,3,5 2011/2010/2009/2011 IEC 60076 - part 1/2/3/5/10-1, 2011/2011/2013/2006/2016 IS 11171-1985 (Reaffirmed 2016) IEC 60076 - 11 2004 IS 1180 - 1989 (Reaffirmed 2014) IEC 60310 - 2016 IS 3156-1992 (Reaffirmed 2007) IEC 61869-5-2011 IEC 61869-3- 2011 ANSI :C-57.12-00 & .90
1866	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers Distribu-tion Trans-formers, Traction transformers, Potential transformers	measurement of voltage ratio and check of voltage vector relationship	IS 2026 - part 1,2,3,5 2011/2010/2009/2011 IEC 60076 - part 1/2/3/5/10-1, 2011/2011/2013/2006/2016 IS 11171-1985 (Reaffirmed 2016) IEC 60076 - 11 2004 IS 1180 - 1989 (Reaffirmed 2014) IEC 60310 - 2016 IS 3156-1992 (Reaffirmed 2007) IEC 61869-5-2011 IEC 61869-3- 2011 ANSI :C-57.12-00 & .90



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1867	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers Distribu-tion Trans-formers, Traction transformers, Potential transformers	measurement of voltage ratio and check of voltage vector relationship	IS 2026-1:2011 RA:2016 / IS 2026-2:2010 RA 2020 / IS 2026-3:2018 / IS 2026-4:1977 RA:2016 / IS 2026-5:2011 RA:2016 / IEC 60076-1:2011 / IEC 60076-2:2011 / IEC 60076-3:2013 Amd-1:2018 / IEC 60076-5:2006 / IEC 60076-11:2018 / IS 1180-1:2014 RA:2019 / IS 2026-11:2021 / IS 12021:2015 / IEEE Std C57.12.90 [™] :2021 / IEEE Std C57.12.00 [™] :2021
1868	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers Distribu-tion Trans-formers, Traction transformers, Potential transformers	Measurement of winding resistance	IS 2026-1:2011 RA:2016 / IS 2026-2:2010 RA 2020 / IS 2026-3:2018 / IS 2026-4:1977 RA:2016 / IS 2026-5:2011 RA:2016 / IEC 60076-1:2011 / IEC 60076-2:2011 / IEC 60076-3:2013 Amd-1:2018 / IEC 60076-5:2006 / IEC 60076-11:2018 / IS 1180-1:2014 RA:2019 / IS 2026-11:2021 / IS 12021:2015 / IEEE Std C57.12.90 [™] :2021 / IEEE Std C57.12.00 [™] :2021
1869	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers, Distribution transformers(Non Sealed & Sealed), Dry type transformers, Control Transformers	Zero sequence impedance	IS 2026-1:2011 RA:2021, IEC 60076-1: 2011
1870	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers/ Reactors/ Current limiting reactors	Insulation resistance test	IEC 60076-6 2007 / Cl.7.8.14, Cl.13.2& Cl.13.3 IEC 60310-2016 / Cl.8.9.11, Cl.9.10.8, IS 5553 part 1 2003, IS 5553 part 3 2003 cl.9.2, 9.3 IS 5553 part 8 2004 Cl.7.1, Cl.7.2, IEC 60353 Cl.19.0
1871	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers/ Reactors/ Current limiting reactors	Insulation resistance test/Measurement of harmonics of the current/Measurement of the harmonic current loss and calculation of the total loss / Lightning impulse test	IEC 60076-6 2007 / Cl.7.8.14, Cl.13.2 IEC60310-2016 / Cl.8.9.11, cl.9.10.8 / IS 5553 part 1 2003, IS 5553 part 3 2003 cl.9.2, 9.3 IS 5553 part 8 2004 cl.7.1, cl.7.2, IEC 60353 cl.19.0



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1872	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers/ Reactors/ Current limiting reactors	Temperature rise test	IEC 60076-6 2007, IS 2026-6:2017-12 , IEC 60310 cl. 13.3.8; 1989, cl.7.8.14, cl.8.9.11, cl.9.10.8, IS 5553 part 1 2003, IS 5553 part 3 2003 cl.9.2, 9.3 IS 5553 part 8 2004 cl.7.1, cl.7.2, IEC 60353 cl.19.0
1873	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers/Reactors/ Current limiting reactors	Measurement of inductance	IEC 60076-6 2007 / IS 2026-6:2017-12 cl.7.8.14, cl.8.9.11, cl.9.10.8, IS 5553 part 1 2003, IS 5553 part 3 2003 cl.9.2, 9.3 IS 5553 part 8 2004 cl.7.1, cl.7.2, IEC 60353 cl.19.0
1874	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers/Reactors/Current limiting reactors	Measurement of acoustic sound level / Measurement of vibration / Discharge current test	IEC 60076-6-2007/ IS 2026-6:2017 / IS 5553-1,2,3,4,5 RA 2013 / IEC 60310
1875	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers/Reactors/Current limiting reactors	Separate source a.c. withstand voltage test	IEC 60076-6-2007 / IS 2026-6:2017 / IS 5553-1,2,3,4,5 RA 2013, IEC 60310
1876	ELECTRICAL- INDUCTORS & TRANSFORMERS	Reactor	Short time current test	IS 2026-6:2017 IEC 60076-6: 2007 / IEC 60076-6: 2007
1877	ELECTRICAL- INDUCTORS & TRANSFORMERS	Reactor	Temperature rise test	IS 2026-6:2017 IEC 60076-6: 2007 / IEC 60076-6: 2007
1878	ELECTRICAL- INDUCTORS & TRANSFORMERS	Reactors	Measurement of loss and Quality Factor/Measurement of loss	IEC 60076-6-2007,IS 2026-6:2017,IS 5553-1,2,3,4,5:RA
1879	ELECTRICAL- INDUCTORS & TRANSFORMERS	Reactors	measurement of winding resistance	IS 5553 – Parts 1/2/3/4/5/6/7/8 1989/1990/1990/1989/1989/19 90/1990/1990 (Reaffirmed 2008/2008/2008/2009/2016/20 09/2009) IEC 60076-6
1880	ELECTRICAL- INDUCTORS & TRANSFORMERS	Reactors	measurement of winding resistance	IS 5553 – Parts 1/2/3/4/5/6/7/8 1989/1990/1990/1989/1989/19 90/1990/1990 (Reaffirmed 2008/2008/2008/2009/2016/20 09/2009) IEC 60076-6 2007
1881	ELECTRICAL- INDUCTORS & TRANSFORMERS	Reactors	Winding resistance measurement / Measurement of impedance	IEC 60076-6-2007 / IS 2026-6,:2017 / IS 5553-1,2,3,4,5 RA 2013, IEC 60310



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1882	ELECTRICAL- INDUCTORS & TRANSFORMERS	Reactors and Line Traps	Measurement of Power frequency Inductance of main coil of line trap/ Measurement of Power frequency Inductance of Reactors	IEC 60076-6-2007 / IS 2026-6:2017 IEC 60303-1:1993-04 / IEC 60310-2016 / IEC 60353-1989/AMD1
1883	ELECTRICAL- INDUCTORS & TRANSFORMERS	Reactors and line traps	Temperature rise test	IS 5553-Part 1,2,3,4,5-RA 2013, IEC 60076-6-2007, IS 2026-6:2017,, IEC 60310-2016, IEC 60353
1884	ELECTRICAL- INDUCTORS & TRANSFORMERS	Reactors and Line traps	Temperature Rise Test	IS2026 Part 6:2017/ IEC 60076-6:2007 / IEC 60310-2016 / IEC 60353-1989 Am.1-
1885	ELECTRICAL- INDUCTORS & TRANSFORMERS	Reactors,Current limiting reactors	Linearity test / Determination of reactance and linearity of reactance	IEC 60076-6 2007, IS 2026-6:2017,-12 cl.7.8.14, cl.8.9.11, cl.9.10.8, IS 5553 part 1 2003, IS 5553 part 2 2003 cl.7.2, cl.7.3, IS 5553 part 3 2003 cl.9.2, cl.9.3, IS 5553 part 8 2004 cl.7.1, cl.7.2, IEC 60353 cl.19.0
1886	ELECTRICAL- INDUCTORS & TRANSFORMERS	Rotating Electrical machines	Verification of Terminal marking	IS 12615 CI. No. 16 & IS/IEC 60034-8-2018
1887	ELECTRICAL- INDUCTORS & TRANSFORMERS	Tap Changers	Temperature Rise of COntacts	IEC 60214-1:2014
1888	ELECTRICAL- INDUCTORS & TRANSFORMERS	Tap changers	Temperature Rise of Contacts	IS 8468 part 1 :2018 IEC 60214-1:2014
1889	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer	Accuracy test	"IS/IEC 16227-1:2016, IS/IEC 16227-3:2015 RA:2020, IS/IEC 16227-4:2015, IEC 61869-1:2023, IEC 61869-3: 2011, IEC 61869-4:2013"
1890	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer	Dielectric test	"IS/IEC 16227-1:2016, IS/IEC 16227-3:2015 RA:2020, IS/IEC 16227-4:2015, IEC 61869-1:2023, IEC 61869-3: 2011, IEC 61869-4:2013"
1891	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer	Short time current tests,	"IS/IEC 16227-1:2016, IS/IEC 16227-3:2015 RA:2020, IS/IEC 16227-4:2015, IEC 61869-1:2023, IEC 61869-3: 2011, IEC 61869-4:2013"
1892	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage transformer	Temperature rise test	"IS/IEC 16227-1:2016, IS/IEC 16227-3:2015 RA:2020, IS/IEC 16227-4:2015, IEC 61869-1:2023, IEC 61869-3: 2011. IEC 61869-4:2013"

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1893	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical materials - Magnetic materials (CRNGO)	a.c. magnetization by Epstein test	Cl.7.1.1 of IS 648-2006 / IEC 60404-2 -2008
1894	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical materials - Magnetic materials (CRNGO)	Stacking factor.	Cl.9.1 of IS 648-2006 / IEC 60404-13-2018
1895	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical materials - Magnetic materials (CRNGO)	Thickness, Length, width	Cl.8.1, Cl.8.2, Cl.8.3 of IS 648-2006 / IEC 60404-8-4- 2013
1896	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical materials - Magnetic materials (CRNGO)	Total specific loss / core loss by Epstein test	Cl.7.1.2 of IS 648-2006 / IEC 60404-2-2008
1897	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric insulator/ Composite insulator. Rating 1kV to 400kV (Inclusive)	Thermal mechanical pre- stressing	IEC 62231-2006 / IEC 61462-2007//IEC 62231-1-2015/IEC 62217-2012 / IEC 61109-2008
1898	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Voltage Transformers, C.V.T., Coupling Capacitor, Rating Above (145kV To 800 kV) Inclusive	Fast Transient Impulse Voltage Test/Multiple chopped test on CT's.	IEC 61869-2/2012 and Documented procedure as per CESI & EDF
1899	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Ceramic/ Glass insulator. Disc/Pin/Post/ Insulating Materials. Ratings From 70kN To 400kN (Inclusive)	Thermo-mechanical Performance test (TMPT)	IEC 60383-1-2023
1900	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Coupling capacitors, Ratings from 10kV to 400KV(inclusive)	Discharge test	IEC 60358-1-2012 / IEC 60358-2-2013 / IEC 60358-3-2013
1901	ELECTRICAL- INSULATING MATERIALS & INSULATORS	CVT (Above 3.6kV to 800kV)	Ferro Resonance Test	IEC 61869-5
1902	ELECTRICAL- INSULATING MATERIALS & INSULATORS	CVT (above 3.6kV to 800kV)	Short circuit withstand capability test	IEC 61869-5
1903	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator (Ball & socket, Tongue & clevis), Pin Insulator, Post Insulator solid core - rating from 1kV to 36kV (inclusive). Long rod polymer insulators rating from 1kV to 145kV	Mechanical Performance Test	IS 4318- 2018 / IEC 60575-1977 / IS 731-1971 RA 2021/IEC 60168 : A2:
1904	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator (Ball & socket, Tongue & clevis), Pin Insulator, Post Insulator solid core - rating from 1kV to 36kV (inclusive). Long rod polymer insulators rating from 1kV to 145kV	Residual strength Test	IS 4318/ 2018 / IEC 60575/1977 / IEC 60168/A2 2000 /IEC 60797



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1905	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator /Pin Insulator /Post Insulator - Solid Core,Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Ratings up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthling Reactors - Rating up to 420kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Auto transformers etc.,- Up to and Inclusive of 1kVA to 100MVA Rating-1 kV To 220kV (Inclusive).	Power Frequency Withstand Voltage Test (Dry & Wet)	IEC 60243-3-2013 / ANSI/IEEE C62.11-2020 / ANSI /IEEE C62.22-2009 / ANSI /IEEE C63.2-2016 / ANSI/IEEE C57.98-2011 / IEEE 4-2013 / IEEE 48-2020 / ANSI /IEEE 81-2012 / IEEE 656-2018 / ANSI/IEEE C62.22a: 2013 ANSI/IEEE C57.42-2016 / ANSI /IEEE C57.12.00-2021 / ANSI /IEEE C57.12.90-2021 / ANSI/IEEE C57.13-2016 / ANSI /IEEE C57.19.00
1906	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator /Pin Insulator /Post Insulator - Solid Core,Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Ratings up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthling Reactors - Ratings up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Auto transformers etc.,- Up to and Inclusive of 1kVA to 100MVA Rating-1 kV To 220kV (Inclusive).	Power Frequency Withstand Voltage Test (Dry & Wet)	IEC 61869-2-2012/ IEC 61869-3-2011/ IEC 61869-4- Cor1: 2014/ IEC 61869-5- Cor1:2015/ IEC 61952-2008/ IEC 62067-2022/ IEC 62155-2003/ IEC 62217-2012/ IEC 62231-2006/ IEC 62271-1- A1:2021/ IEC 62271-100-2021/ IEC 62271-102-2018/ IEC 62271-103-2021/ IEC 62271-105-2021/ IEC 62271-106-2021/ IEC 62271-108-2020/ IEC 62271-109-2019/ IEC 62271-109-2019/ IEC 62271-200-2021/ IEC 62271-200-2021/ IEC 62271-203:2022/ IEC 62271-203:2022/ IEC 62271-37-013-2021/ IEC 62475-2010/ NBR 5356-1/200:



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1907	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator /Pin Insulator /Post Insulator - Solid Core,Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Ratings up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthling Reactors - Ratings up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Auto transformers etc.,- Up to and Inclusive of 1kVA to 100MVA Rating-1 kV To 220kV (Inclusive).	Power Frequency Withstand Voltage Test (Dry & Wet)	IEEE-18-2012/ ANSI/IEEE C29-1/2018/ ANSI /IEEE C29-2A-2020/ ANSI /IEEE C29-2B-2013/ ANSI /IEEE C29-3-2015/ ANSI/IEEE C29-4-2022/ ANSI /IEEE C29-6-2022/ ANSI /IEEE C29-6-2022/ ANSI /IEEE C29-7-2015/ ANSI /IEEE C29-8-2017/ ANSI /IEEE C37.20.2-2022/ ANSI/IEEE C37.20.2-2022/ ANSI/IEEE C37.30.1-2022/ ANSI /IEEE C37.41-2017/ ANSI /IEEE C37.42-2016/ ANSI /IEEE C37.12.00-2021/ ANSI /IEEE C57.12.90-2021/ ANSI/IEEE C57.13
1908	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator /Pin Insulator /Post Insulator - Solid Core,Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Ratings up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthling Reactors - Ratings up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Auto transformers etc.,- Up to and Inclusive of 1kVA to 100MVA Rating-1 kV To 220kV (Inclusive).	Power Frequency Withstand Voltage Test (Dry & Wet)	IS 8998 :2021/IS 9147:2016/ IS 9385 -1:2018/IS 9385-2:2018/IS 9385-3:2018/IS 9431:2019/IS 10162:2018/IS 10810-45:2021/IS 10810-47:2020/IS 11548:2021/IS 13573-1:2016/IS 13573-2:2021/IS 13573-3/2016/ IS13772:2021/13773:2018 IS13925-1:2017/IS 13961:2014/IS 15999-15:2017/IS 16167-1:2018/IS/IEC 16227-1: 2016/IS/IEC 16227-2:2021/IS/IEC 16227-2:2021/IS/IEC 16227-2:2021/IS/IEC 16227-2:2020/IS/IEC 16227-5:2020/RDSO Spec.TI/SPC/OHE/INS/0070:202 2 /TI/SPC/OHE/POST/0101:IEC 62146-1:2013:A1:2016/ IEC 62146-2:



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1909	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator /Pin Insulator /Post Insulator - Solid Core,Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Ratings up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthling Reactors - Ratings up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Auto transformers etc.,- Up to and Inclusive of 1kVA to 100MVA Rating-1 kV To 220kV (Inclusive).	Power Frequency Withstand Voltage Test (Dry & Wet)	RDSO spec. ETI/OHE/51(9/87)/ 2022 / ETI/PSI/117(7/88)/1988 / ET/OHE/15(9/91)/1991 / VDE 0278-628/2002 / VDE 078-629-1: 2019/ IEC 60034-15-2009/ IEC 60060-1-2010/ IEC 60071-1-2019/60071-2-2023/ IEC 60076-1-2011/ IEC 60076-3-A1:2018/ 60076-4-2002 / 60076-6-2007/60076-11-2018/ 60076-15-2015/ 60099-4-2014/ IEC 60099-8-2017/ IEC 60137-2018/ IEC 60168-2000/ IEC 60212-2010/ IEC 60214-2014/ IEC60273-1990/ IEC 60243-1-2013/ 60243-2-
1910	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator /Pin Insulator /Post Insulator - Solid Core,Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct LA/ LA Housing/Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Ratings up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthling Reactors - Ratings up to 400kV (Inclusive), Current Transformers-Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Auto transformers etc.,- Up to and Inclusive of 1kVA to 100MVA Rating-1 kV To 220kV (Inclusive).	Power Frequency Withstand Voltage Test (Dry & Wet)	IS 692:2020/ IS 731:2021/ IS 1180:A1:2021/ IS 1445:2019/ IS 1554-1: 2020/ IS 1554-2:2020/ IS 2026-1:2021/ IS 2026-3:2018/ IS 2026-6:2017/ IS/IEC 2026-11:2021/ IS 2071-1:2016/ IS 2705:2017 / IS 4318:2018/ IS 5300:2019/ IS 5350-1:2019/ IS 5350-2:2019/ IS 5350-3:2019/ IS 7098-1:2020/ IS 7098- 2:2021/ IS 7098-3:2019/ IS 7421:2019/ IS 8084:2017/ IS 8263:2018/ IS 8269:2019/ IS 8468-1:2018/ IS 8603:2019/ IS 8603-4:2019/ IS 8690:2016/ IS 8792:2023/ IS 8793:2023/ IS 8997:



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1911	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator /Pin Insulator /Post Insulator - Solid Core,Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/LA/LA Housing/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Ratings up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthling Reactors - Ratings up to 400kV (Inclusive), Current Transformers-Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Auto transformers etc.,- Up to and Inclusive of 1kVA to 100MVA Rating-1 kV To 220kV (Inclusive).	Power Frequency Withstand Voltage Test (Dry & Wet)	IEC 60143-1-A1:2023/ IEC 60282-1-2020/ IEC 60282-2-2008/ IEC 60305-2021/ IEC 60310-2018/ IEC 353-A1:2002/ IEC 60358-1-2013/ IEC 60358-2-2013/ IEC 60383-1-2023/ IEC 60383-2-1993/ IEC 60433-2021/ IEC 60437-1997/ IEC 60507-2018/ IEC 60660-1999/ IEC 60700-1- A1:2021/ IEC 60700-2-A1;2021/ IEC 60871-1-2014/ IEC 60984-2014/ IEC 61083-1-2021/ IEC 61083-2-2013/ IEC 61109-2008/ IEC 61211-2004/ IEC 61245-2018/ IEC 61284-1998/ IEC 61325-1995/ IEC 61467-2008/ IEC 61869-1:
1912	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator /Pin Insulator /Post Insulator - Solid Core/ Hollow Insulator/ Insulator strings, Lightning arrester Housing & insulating tubes etc rated 3.6kV to 400kV	Visible Discharge Test	IS 731:2021 / IS 4318:2018 / IS 2071-1:2016 / IS 2121 (Part 2): 2018 / IEC 60060-1-2010 / IEC 61284-1998 / IEC 60353-2002 / IS 398(Part 5):2018 / RDSO Specifications: TI/SPC/OHE/INS/0070/2022 TI/SPC/OHE/INS/0070/2022 ETI/OHE/51(9/87)/2022 / ETI/OHE/51(9/87)/2022 / ETI/OHE/51(9/97)/2022 / ET/OHE/15(9/91)/1991 / VDE 0278-628/2002 / VDE 078-629-1



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1913	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator /Pin Insulator /Post Insulator - Solid Core/Hollow Insulator, Insulator Strings, LA, Lightning Arrester Housing, Insulating Rod/ Operating Rod -For 220kV to 420 kV (Inclusive), Repair Sleeves rated above 1kV to 420kV (Inclusive). Thyristor Valves - 11kV to 35kV.	Power Frequency Flashover Test (Dry & Wet)	IEC 60143-1-2015/ IEC 60282-1-2020/ IEC 60282-2-2008/ IEC 60305-2021/ IEC 60310-2018/ IEC 353-A1:2002/ IEC 60358-1-2013/ IEC 60358-2/2013/ IEC 60383-1-2023/ IEC 60383-2-1993/ IEC 60433-2021/ IEC 60437-1997/ IEC 60507-2018/ IEC 60660-1999/ IEC 60660-1999/ IEC 60700-1-A1:2021/ IEC 60700-2-A1-2021/ IEC 60700-2-A1-2021/ IEC 6083-1-2014/ IEC 61083-1-2014/ IEC 61083-2-2013/ IEC 61083-2-2013/ IEC 61109-2008/ IEC 61211-2004/ IEC 61245-2018/ IEC 61284-1998/ IEC 61325-1995/ IEC 61467-2008/ IEC 61869-1
1914	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator /Pin Insulator /Post Insulator - Solid Core/Hollow Insulator, Insulator Strings, Lightning Arrester Housing, Insulating Rod/ Operating Rod -For 220kV to 420 kV (Inclusive), Repair Sleeves rated above 1kV to 420kV (Inclusive). Thyristor Valves - 11kV to 35kV.	Power Frequency Flashover Test (Dry & Wet)	IEC 60243-3-2013 / ANSI/IEEE C62.11-2020 / ANSI /IEEE C62.22-2009 / ANSI /IEEE C63.2-2016 / ANSI /IEEE C57.98-2011 / IEEE 4-2013 / IEEE 48-2020 / ANSI /IEEE 81-2012 / IEEE 656-2018 / IEEE 1122-2007 / ANSI/IEEE C62.22a: 2013 ANSI/IEEE C37.42-2016 / ANSI /IEEE C57.12.00-2021 / ANSI /IEEE C57.13-2016 / ANSI /IEEE C57.19.00



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1915	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator /Pin Insulator /Post Insulator - Solid Core/Hollow Insulator, Insulator Strings, Lightning Arrester Housing, Insulating Rod/ Operating Rod -For 220kV to 420 kV (Inclusive), Repair Sleeves rated above 1kV to 420kV (Inclusive). Thyristor Valves - 11kV to 35kV.	Power Frequency Flashover Test (Dry & Wet)	IEC 61869-2-2012/ IEC 61869-3-2011/ IEC 61869-4- Cor1: 2014/ IEC 61869-5- Cor1:2015/ IEC 61952-2008/ IEC 62067-2023/ IEC 62155-2003/ IEC 62217-2012/ IEC 62231-2006/ IEC 62271-1- A1:2021/ IEC 62271-100-2021/ IEC 62271-102-A1:2022/ IEC 62271-103-2021/ IEC 62271-104-2020/ IEC 62271-105-2021/ IEC 62271-105-2021/ IEC 62271-108-2020/ IEC 62271-109-2019/ IEC 62271-109-2019/ IEC 62271-109-2019/ IEC 62271-200-2021/ IEC 62271-203 :2022/ IEC 62271-37-013-2021/ IEC 62475-2010/ NBR 5356-1/200:
1916	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator /Pin Insulator /Post Insulator - Solid Core/Hollow Insulator, Insulator Strings, Lightning Arrester Housing, Insulating Rod/ Operating Rod -For 220kV to 420 kV (Inclusive), Repair Sleeves rated above 1kV to 420kV (Inclusive). Thyristor Valves - 11kV to 35kV.	Power Frequency Flashover Test (Dry & Wet)	IEEE-18-2012/ ANSI/IEEE C29-1/2018/ ANSI /IEEE C29-2A-2020/ ANSI /IEEE C29-2B-2013/ ANSI /IEEE C29-3-2022/ ANSI /IEEE C29-4-2022/ ANSI /IEEE C29-6-2022/ ANSI /IEEE C29-6-2022/ ANSI /IEEE C29-7-2015/ ANSI /IEEE C29-8-2017/ ANSI /IEEE C37.20.2-2022/ ANSI /IEEE C37.20.2-2022/ ANSI /IEEE C37.20.2-2015/ ANSI /IEEE C37.41-2017/ ANSI /IEEE C37.42-2016/ ANSI /IEEE C37.12.00-2021/ ANSI /IEEE C57.12.90-2021/ ANSI /IEEE C57.13



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1917	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator /Pin Insulator /Post Insulator - Solid Core/Hollow Insulator, Insulator Strings, Lightning Arrester Housing, Insulating Rod/ Operating Rod -For 220kV to 420 kV (Inclusive), Repair Sleeves rated above 1kV to 420kV (Inclusive). Thyristor Valves - 11kV to 35kV.	Power Frequency Flashover Test (Dry & Wet)	IS 692:2020/ IS 731:2021/ IS 1180:A4:2021/ IS 1445:2019/ IS 1554-1: 2020/ IS 1554-2:2020/ IS 2026-1:2021/ IS 2026-3:2018/ IS 2026-6:2017/ IS/IEC 2026-11:2021/ IS 2071-1:2016/ IS 2705:2017 / IS 4318:2018/ IS 5300:2019/ IS 5350-1:2019/ IS 5350-2:2019/ IS 5350-3:2019/ IS 7098-1:2020/ IS 7098- 2:2016/ IS 7098-3:2019/ IS 7421:2019/ IS 8084:2017/ IS 8263:2018/ IS 8269:2019/ IS 8468-1:2018/ IS 8603:2019/ IS 8603-4:2019/ IS 8690:2016/ IS 8792:2023/ IS 8793:2023/ IS 8997
1918	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator /Pin Insulator /Post Insulator - Solid Core/Hollow Insulator, Insulator Strings, Lightning Arrester Housing, Insulating Rod/ Operating Rod -For 220kV to 420 kV (Inclusive), Repair Sleeves rated above 1kV to 420kV (Inclusive). Thyristor Valves - 11kV to 35kV.	Power Frequency Flashover Test (Dry & Wet)	IS 8998 :2021/ IS 9147:2016/ IS 9385 -1:2018/ IS 9385-2:2018/ IS 9385-3:2018/ IS 9431:2019/ IS 10162:2018/ IS 10810-45:2021/ IS 10810-47:2020/ IS 11548:2021/ IS 13573-1:2016 IS 13573-2:2021/ IS 13573-3/2016/ IS 13772:2021/13773:2018/ IS 13925:2017/ IS 13961:2014/ IS 15086:2017/ IS 16167:2018/ IS/IEC 16227-1: 2016/ IS/IEC 16227-2:2021/ IS/IEC 16227-3:2020/ IS/IEC 16227-3:2020/ IS/IEC 16227-5:2020/ RDSO Spec. TI/SPC/OHE/INS/0070/2022 TI/SPC/OHE/POST/0101



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1919	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator /Pin Insulator /Post Insulator - Solid Core/Hollow Insulator, Insulator Strings, Lightning Arrester Housing, Insulating Rod/ Operating Rod -For 220kV to 420 kV (Inclusive), Repair Sleeves rated above 1kV to 420kV (Inclusive). Thyristor Valves - 11kV to 35kV.	Power Frequency Flashover Test (Dry & Wet)	RDSO spec. ETI/OHE/51(9/87)/ 2022 ETI/PSI/117(7/88)/1988 / ET/OHE/15(9/91)/1991 / VDE 0278-628/2002 / VDE 078-629-1: 2019/ IEC 60034-15-2009/ IEC 60060-2-2010/ IEC 60071-2019/ IEC 60071-2019/ IEC 60071-2019/ IEC 60076-1-2011/ 60076-3- A1:2018/ 60076-4-2002 / IEC 60076-1-2018/ IEC 60076-15-2015/ IEC 60099-4-2014/ IEC 60099-8-2017/ IEC 60137-2018/ IEC 60137-2018/ IEC 60137-2018/ IEC 60137-2018/ IEC 60214-12014/ IEC60273-1990/ IEC 60243-1-2013/60243-2
1920	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid core, Hollow Insulator, Insulating rod/operating rod/ Lightning arrester housing - rating 1kV to 400kV (Inclusive)	Temperature Cycle test	IS 731:2021 //S 1445:2019 //S 4318:2018 / IS 5300:2019 / IS 5350- 1:2019 / IS 5350-2:2019 / IS 5350-3:2019 / IS 7421:2019 / IS 9431:2019 / IEC 60137- 2018 / IEC 60273-1990 / IEC 60305-2021 / IEC 60383-1-2023 / IEC 60383-2-1993 / IEC 60433-2021 / IEC 60660-1999 / IEC 60168-2000 / IEC 61109:2008 / IEC 61211:2004 / IEC 61952-2008 / IEC 62155-2003 / ANSI /IEEE C29-1-2018 / C29-2A-2020 / C29-2B-2013 / C29-3-2015 / C29-4-2022 / C29-7-2015 / C57.12.00-2021 / IEEE C37.41



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1921	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Rating up to 420kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).	Impulse flashover test	ANSI /IEEE C57.98-2011/IEEE 4-2013/IEEE 48-2020/IEEE 81-2012/IEEE 656-2018/IEEE 1122
1922	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Rating up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).	Impulse flashover test	IEC 60034-15-2009/IEC 60060-1-2010/IEC 60060-2-2010/IEC 60071-2-2023/IEC 60071-2-2023/IEC 60076-1-2011/IEC60076-3- A1-2018/IEC60076-4-2002/IEC6 0076-6-2007/IEC 60076-11- 2018/IEC 60076 -15-2015/IEC60099-4-2014/IEC 60099-4-2009/ IEC60099-8-2017/IEC60137-20 18/IEC60168-2000/IEC60212-2 010/IEC60214-1-2014/IEC 60243-1-2013/IEC 60243-2-2013/IEC 60282-1-2020/IEC60282-2-200 8/IEC 60305-2021/ IEC 60358-1-2013/ IEC 60358-1-2013/ /60358-2:2013/60358-3:



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1923	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Ratings up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).	Impulse flashover test	IEC 60383-1-2023/ IEC 60383-2-1993/ IEC 60433-2021/ IEC 60437-1997/ IEC 60507-2018/ IEC 60660-1999/ IEC 60700-1-2021/60700-2-2021/IE C 60984-2014/ IEC 61083-1-2021/ 61083-2-2013/ IEC 61109-2008/ IEC 61211-2004/ IEC 61245-2018/ IEC 61284-1998/ IEC 61325-1995/ IEC 61467-2008/ IEC 61869-1-2023/ 61869-2-2012/61869-3: 2011/ 61869-4-2014/ 61869-5-2015/61952-2008/IEC 62267-2022/ IEC 62155-2003/ IEC 62217-2012/ IEC 62271-100-2022/ IEC 62271-100-2022/ IEC 62271-102-2022/ IEC
1924	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Ratings up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).	Impulse flashover test	IEC 62271-104-2020/ IEC 62271-105-2021/ IEC 62271-106-2021/ IEC 62271-107-2019/ IEC 62271-108-2020/ IEC 62271-109-2019/ IEC 62271-2019/ IEC 62271-200-2021/ IEC 62271-203-2022/ IEC 62271-37-013-2021/ IEC 62475-2010/ NBR 5356-1-200: 2017/ IEEE-18-2012/ ANSI /IEEE C29-1-2018/ ANSI /IEEE C29-1-2018/ ANSI /IEEE C29-2A-2020/ ANSI /IEEE C29-2A-2022/ ANSI /IEEE C29-3-2022/ ANSI /IEEE C29-3-2022/ ANSI /IEEE C29-5-2022/ ANSI /IEEE C29-5-2022/ ANSI /IEEE C29-6-2022/ ANSI /IEEE C29-7IEC 62146-1:2013:A1:2016/ IEC 62146-2:2023



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1925	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Ratings up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).	Impulse flashover test	IS 692:2020/ IS 731:2021/ IS 1445:2019/ IS 1554-1:2020/ IS 1554-2/2020/ IS 2026-1:2021/ IS 2026-3:2018/ IS 2026-6:2017/ IS/IEC 2026-11:2021/ IS 2071-1:2016/ IS 2705:2017/ IS 4318:2018/ IS 5300:2019/ IS 5350-1:2019/ IS 5350-2:2019/ IS 5350-3:2019/ IS 7098-1:2020/ IS 7098-2:2021/ IS 7098-3:2019/ IS 7421:2019/ IS 8084:2017/ IS 8263:2018/ IS 8269:2019/ IS 8468-1:2018/ IS 8603:2019/ IS 8603-4:2019/ IS 8690:2016/ IS 8792
1926	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Ratings up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).	Impulse flashover test	IS 8793:2023/ IS 8997: 2022/ IS 8998:2021/ IS 9147:2021/ IS 9385-1:2018/ IS 9385-2:2018/ IS 9385-3:2018/ IS 9431:2019/ IS 10162: 2018/ IS 10810-45:2021/ IS 10810-47:2020/ IS 11171:2016/ IS 11548:2021/ IS 13573-1: 2016/ IS 13573-2:2021/ IS 13573-2:2017/ IS 13961:2014/ IS 15999-5:2017/ IS 15086-4:2017/ IS 15086-4:2017/ IS 15086-5:2020/ RDSO Spec. ETI/SPC/OHE/INS/0070/ 2022 ETI/OHE/51(9/87)/2022/ ETI/OHE/51(9/87)/2022/ ETI/OHE/15(9/91)
1927	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Rating up to 420kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).	Impulse withstand voltage test	ANSI /IEEE C57.12.20-2017/ ANSI /IEEE C57.138-2016/ ANSI /IEEE C57.12.90-2021/ ANSI /IEEE C57.13-2016/ ANSI /IEEE C57.19.00-2023/ ANSI /IEEE C62.11-2020/ ANSI /IEEE C62.22-2013/ ANSI /IEEE C63.2-2016/ ANSI /IEEE C57.98-2011/ IEEE 4-2013/ IEEE 48-2020/ IEEE 81-2012/ IEEE 656-2018/ IEEE 1122



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1928	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Ratings up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).	Impulse withstand voltage test	IEC 60099-8-2017/ IEC 60137-2018/ IEC 60168- A2:2000/ IEC 60212-2010/ IEC 60214-1-2014/ IEC 60273-1990/ IEC 60243-1-2013/60243-2-201 3/60243-3-2013/IEC 60382-1-2020/60282-2-2008/IE C 60305-2021/IEC 60310-2018/IEC60353- A1:2002/IEC60358-1-2012/603 58-2-2013/60358-3-2013/ IEC 60433-10223/60383-2-199 3/IEC 60433-2021/IEC 60437-1997/IEC 60507-2013/IEC 60660-1999/60700-1-2021/607 00-2-2021/IEC60984-2014/ 610831-2021/610832-2013/ 61109-2008/IEC 61211-2004/ 61245:2018/ 62146-1:2013:A1:2016/ IEC 62146-2
1929	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Ratings up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).	Impulse Withstand Voltage test	IEC 61284-1998/ IEC 61325-1995/ IEC 61467-2008/ IEC 61869-1-2023/ IEC 61869-2-2012/ IEC 61869-3: 2011/IEC 61869-4-2014/IEC 61869-5-2015/IEC 61952-2008/IEC 62067-2022/IEC 62217-2012/IEC 62231-2006/IEC 62271-102-022/IEC 62271-102-022/IEC 62271-103-2021/IEC 62271-103-2021/IEC 62271-108-2021/IEC 62271-108-2021/IEC 62271-108-2021/IEC 62271-108-2021/IEC 62271-108-2021/IEC 62271-109-2019/IEC 62271-2019/IEC 62271-2019/IEC 62271-2019/IEC 62271-2019/IEC 62271-200-2021/IEC 62271-200-2021/IEC 62271-203-2022/IEC 62271-203-2022/IEC 62271-203-2022/IEC



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1930	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Ratings up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).	Impulse withstand voltage test	IS 692:2020/ IS 731:2016/ IS 1180: A4:2021/ IS 1445:2019/ IS 1554-1:2020/ IS 1554-2/2020/ IS 2026-1:2021/ IS 2026-3:2018/ IS 2026-6:2017/ IS/IEC 2026-11:2021/ IS 2071-1:2016/ IS 2705:2017/ IS 4318:2018/ IS 5300:2019/ IS 5350-1:2019/ IS 5350-2:2019/ IS 5350-3:2019/ IS 7098-1:2020/ IS 7098-2:2021/ IS 7098-3:2019/ IS 7421:2019/ IS 8084:2017/ IS 8263:2018/ IS 8269:2019/ IS 8468-1:2018/ IS 8603:2019/ IS 8603-4:2019/ IS 8690:2016/ IS 8792:2023/ IS 8793:2023/ IS 8997: 2021/ IS 8998:2022/ IS 9147-
1931	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Ratings up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).	Impulse withstand voltage test	IS 9385-1:2018/ IS 9385-2: 2018/ IS 9385-3:2018/ IS 9431:2019/ IS 10162:2018/ IS 10810-45:2021/ IS 10810-47:2020/ IS 11548:2021/ IS 13573-1: 2016/ IS 13573-2:2021/ IS 13573-3:2016/ IS 13772:2021/ 13773:2018/ IS 13925:2017/ IS 13961:2014/ IS 15086-4:2017/ IS 15086-4:2017/ IS 15086-5:2020/ IS 16227-1:2016/ IS 16227-2:2021/ IS 16227-3:2020/ IS 16227-4:2015/ IS 16227-5:2020/ IS/IEC 62271-1:A1:2021/ IS/IEC 62271-102:A1:2022/ IS/IEC 62271-103



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1932	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Ratings up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).	Impulse withstand voltage test	NBR 5356-1-200: 2017/ IEEE-18-2012/ ANSI /IEEE C29-1-2018/ ANSI /IEEE C29-2A-2020/ ANSI /IEEE C29-2B-2013/ ANSI /IEEE C29-3-2022/ ANSI /IEEE C29-4-2022/ ANSI /IEEE C29-5-2022/ ANSI /IEEE C29-5-2022/ ANSI /IEEE C29-8-2017/ ANSI /IEEE C37.20.2-2022/ ANSI /IEEE C37.20.2-2015/ ANSI /IEEE C37.30.1-2022/ ANSI /IEEE C37.41-2017/ ANSI /IEEE C37.42-2016/ ANSI /IEEE C57.12.00: 2021/ ANSI /IEEE
1933	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Rating up to 420kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive). Lightning arresters - rating 1kV to 245kV (Inclusive). Bushings / power connectors, compression joints, repair sleeves rating 145 to 420kV (Inclusive)	Radio Interference Voltage Test (Dry & Wet)	ANSI /IEEE C29-1- 2018 / ANSI /IEEE C29- 2A-2020 / PGCIL /C/ENGG/SPEC/GTR/Rev.no14/J an: 2017/ ANSI /IEEE C29-2B- 2013/ANSI / IEEE C29- 3-2022/ ANSI /IEEE C29-4-2022/ ANSI /IEEE C29-5-2022/ ANSI /IEEE C29-6- 2022/ ANSI /IEEE C29-6- 2022/ ANSI /IEEE C29-8-2017/ ANSI /IEEE C29-8-2017/ ANSI /IEEE C57.13- 2016/ ANSI /IEEE C63-2-2016/ ANSI /IEEE C63-2-2016/ ANSI/IEEE C62.11-2020/ IEEE 656-2018/ IEEE 1122- 2007/ CISPR 16-1- 2019/ CISPR 18-1- 2017/ CISPR 18-2- 2017/ CISPR 18-3-2017/ IEEE 18 -2012/ IEEE C37.41:



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1934	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Rating up to 420kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).Lightning arresters - rating 1kV to 245kV (Inclusive). Bushings / power connectors, compression joints, repair sleeves rating 145 to 420kV (Inclusive)	Radio Interference Voltage Test (Dry & Wet)	ANSI /IEEE C29-1- 2018 / ANSI /IEEE C29- 2A-2020 / PGCIL /C/ENGG/SPEC/GTR/Rev.no14/J an: 2017/ ANSI /IEEE C29-2B- 2013/ANSI / IEEE C29-3-2022/ ANSI /IEEE C29-4-2022/ ANSI /IEEE C29-5-2022/ ANSI /IEEE C29-6- 2022/ ANSI /IEEE C29-6- 2022/ ANSI /IEEE C29-8-2017/ ANSI /IEEE C29-8-2017/ ANSI /IEEE C29-9-2017/ ANSI /IEEE C57.13- 2016/ ANSI /IEEE C63-2-2016/ ANSI /IEEE C63-2-2016/ ANSI /IEEE C63-2-2016/ ANSI /IEEE C63-2-2017/ CISPR 16-1- 2019/ CISPR 18-1- 2017/ CISPR 18-2- 2017/ CISPR 18-3-2017/ IEEE 18 -2012/ IEEE C37.41: 2017
1935	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Rating up to 420kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).Lightning arresters - rating 1kV to 245kV (Inclusive). Bushings / power connectors, compression joints, repair sleeves rating 145 to 420kV (Inclusive)	Radio Interference Voltage Test (Dry & Wet)	IEC 60076-11:2018/ IEC 61284-1998/ IEC 60353-2002/ IEC 60437-1997/ IEC 60099-4-2014/ IEC 61869-1-2023/ IEC 61869-2-2012/ IEC 61869-3-2011/ IEC 61869-3-2015/ IEC 62271-1- A1-2021/ IEC 62271-102- A1-2022/ IEC 62271-100-2021/ IEC 62271-103-2021/ IEC 62271-103-2021/ IEC 62271-103-2021/ IEC 62271-103-2021/ IEC 71/SPC/OHE/INS/0070/2022 TI/SPC/OHE/INS/0070/2022 TI/SPC/OHE/POST/0101/2022/ ETI/OHE/51(9/87)/2022/ ETI/OHE/15(9/91)/1991/ VDE 0278-628/2002/ VDE 078-629-1-2009/ NEMA 107: 2016



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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
1936	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Ratings up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).Lightning arresters - rating 1kV to 245kV (Inclusive). Bushings / power connectors, compression joints, repair sleeves rating 145 to 420kV (Inclusive)	Radio Interference Voltage Test (Dry & wet)	IEC 60076-11:2018/ IEC 61284-1998/ IEC 60353-2002/ IEC 60437-1997/ IEC 60099-4-2014/ IEC 61869-1-2023/ IEC 61869-2012/ IEC 61869-3-2011/ IEC 61869-3-2011/ IEC 61869-5-2015/ IEC 62271-1- A1-2021/ IEC 62271-102- A1-2022/ IEC 62271-100-2022/ IEC 62271-103-2021/ IEC 62271-111/2019/ RDSO Spec. TI/SPC/OHE/INS/0070/2022 TI/SPC/OHE/POST/0101/2022/ ETI/OHE/51(9/87)/2022/ ETI/OHE/51(9/87)/2022/ ETI/OHE/15(9/91)/1991/ VDE 0278-628/2002/ VDE 078-629-1-2009/ NEMA 107: 2016
1937	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Rating up to 420kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive). Lightning arresters - rating 1kV to 245kV (Inclusive). Bushings / power connectors, compression joints, repair sleeves rating 145 to 420kV (Inclusive)	Radio Interference Voltage Test (Dry & Wet)	IS 731:2021/IS 2121 (Part 2):2018/ IS 4318:2018/IS 398 (part 5):2018/ IS 2026- 3:2018/IS 2026-6:2017/ IS/IEC 2026-11: 2021/ IS 5350-1:2019/ IS 5350-2:2019 / IS 5350-3:2019/ IS 8263:2018/ IS 8792:2023/IS 8793 :2023/ IS 9348:2018/IS 11171:2016/ IS/IEC 16227- 1:2016/ IS/IEC 16227- 2:2021/ IS/IEC 16227- 3:2020/ IS/IEC 16227-4:2015/ IS 16227- 5:2020/ NBR 5356- 1:2010/ NBR 5356- 2:2014/ IEC 60060-1-2010/ IEC 60076-3- 2018/ IEC 60076-6



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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
1938	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Ratings up to 400kV (Inclusive), Current Transformers- Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive). Lightning arresters - rating 1kV to 245kV (Inclusive). Bushings / power connectors, compression joints, repair sleeves rating 145 to 420kV (Inclusive) Aluminium conductor for OH transmission purposr	Radio Interference Voltage Test (Dry & wet)	IS 731:2021/IS 2121 (Part 2):2018/ IS 4318:2018/IS 398 (part 5):2018/ IS 2026- 3:2018/IS 2026-6:2017/ IS/IEC 2026-11: 2021/ IS 5350-1:2019/ IS 5350-2:2019 / IS 5350- 3:2019/ IS 8263:2018/ IS 8792:2023/IS 8793 :2023/ IS 9348:2018/IS 11171:2016/ IS/IEC 16227- 1:2016/ IS/IEC 16227- 2:2021/ IS/IEC 16227- 3:2020/ IS/IEC 16227-4:2015/ IS 16227- 5:2020/ NBR 5356- 1:2010/ NBR 5356- 2:2014/ IEC 60060-1-2010/ IEC 60076-3- 2018/ IEC 60076-6:2007// IEC 62146-1:2013:A1:2016/ IEC 62146-2:
1939	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct/ LA / LA Housing /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Ratings up to 400kV (Inclusive), Current Transformers-Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).	Impulse Withstand Voltage test	IS/IEC 62271-104:2020/ IS/IEC 62271-111:2019/ IS/IEC 62271-200:2021/ IS/IEC 62271-203:2022/ RDSO Spec. TI/SPC/OHE/INS/0070 / 2022 TI/SPC/OHE/POST/0101/2022/ ETI/OHE/51(9/87)/2022 / ETI/PSI/117(7/88)/1988 / ET/OHE/15(9/91)/1991 / IEC 60034-15-2009/ IEC 60060-1-2010/ IEC 60060-2-2010/ IEC 60071-2019/ IEC 60071-2019/ IEC 60076-1-2011/ 60076-3- A1-2018/ 60076 -15-2015/ IEC 60099-4-2014/ IEC 60099-4


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1940	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc Insulator/Pin Insulator /Post Insulator - Solid Core, Hollow Insulator, Insulator Strings -Ratings up to 420 kV (Inclusive), A. B. Switches /Isolator/Circuit Breaker/Bus Duct/ LA/ LA Housing /Cable/Bushing / Panel/Horn Gap/Dropout Fuse Unit- Rating up to 420 kV (Inclusive), P T/ C V T /Coupling /Tap Changers. Capacitors/Grading Capacitors /R.V.T.S/C.T - PT Units Ratings up to 420kV (Inclusive), Series Reactors, Line Traps. Tuning Reactors & Neutral Earthing Reactors - Ratings up to 400kV (Inclusive), Current Transformers-Rating up to 420kV (Inclusive), Power/Distribution Transformers Including Earthing Transformers, Autotransformers etc.,-up to and Inclusive of 1kVA to 100MVA Rating-1 kV to 220kV (Inclusive).	Impulse flashover test	ANSI /IEEE C29-8-2017/ ANSI /IEEE C29-9-2017/ ANSI /IEEE C37.20.2-2022/ ANSI /IEEE C37.23-2015/ ANSI /IEEE C37.30.1-2022/ ANSI /IEEE C37.41-2017/ ANSI /IEEE C37.42-2016/ ANSI /IEEE C57.12.00: 2021/ ANSI /IEEE C57.12.01-2020/ ANSI /IEEE C57.12.90-2021/ ANSI /IEEE C57.138-2016/ ANSI /IEEE C57.13-2016/ ANSI /IEEE C57.13-2016/ ANSI /IEEE C57.19.00-2023/ ANSI /IEEE C62.11-2020/ ANSI /IEEE C62.22-2013/ ANSI /IEEE C63.2:
1941	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc/Pin/Post and Similar Insulating Materials. Also Items Like Battery Containers, Rubber Mats, Rating from 1kV To 110kV (Inclusive).	Power Frequency puncture withstand voltage test	IS 731:2021/ IS/IEC 60168:2000 / IS 1445: 2019 / IS 4318: 2018 / IEC 60383-1-2023 / IEC 60383-2-1993 / ANSI/IEEE C29.2A/ 2020 / C29.2B/ 2013 / C29.5
1942	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc/Pin/Post/Solid Core Rating from 1kV To 36kV (Inclusive).	Electro Mechanical Failing Load Test	IS 731-2021 / IS/IEC 60168:2000/ IEC 60383-1-2023 / IEC 60168-2000 / IEC 60433-2021 / IEC 60575-
1943	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc/Pin/Post/Solid Core Ratings From 1kV To 36kV (Inclusive).	Electro Mechanical Failing Load Test	IS 731-2021 / IS/IEC 60168:2000/ IEC 60383-1-2023 / IEC 60168-2000 / IEC 60433-2021 / IEC 60575-
1944	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc/Pin/Post/Solid Core/ Insulator Ratings of 1kV to 36kV	Mechanical Failing Load Test:	IS 731-2021 / IS/IEC 60168:2000/ IEC 60383-1-2023 / IEC 60433-2021 / IEC 60575-
1945	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Disc/Pin/Post/Solid Core/Hollow Insulator, Insulator Strings (All Types) Lightning Arrester Housings. Ratings upto 420kV (Inclusive).	Porosity test (on porcelain insulators)	IS 731: 2021 / IS 1445 :2019 / IS 5300 :2019 / IS/IEC 62155 :2003 / IS/IEC 60168 -2000 / IEC 60305 -2021 / IEC 60383-1-2023 / IEC 60383-2-1993 / ANSI /IEEE C29-1/2018 / ANSI /IEEE C29-2A- 2020 / ANSI /IEEE C29-3-2022 / ANSI /IEEE C29-3-2022 / ANSI /IEEE C29-3-2022 / ANSI /IEEE C29-4-2022 / ANSI /IEEE C29-7-2015 / ANSI /IEEE C29-9



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1946	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical materials - Magnetic materials (CRGO)	Core Loss by Epstein test & Single sheet tester	Cl. 8.1 IS 3024 - 2015 / Cl.10.6 IS 649- 2007 / IEC 60404-2 2008 / IEC 60404-3-2002
1947	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical materials - Magnetic materials (CRGO)	Ductility.	Cl.10.2 of IS 3024 2015 / IS 649 -2007
1948	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical materials - Magnetic materials (CRGO)	Magnetic polarization, permeability. By Epstein test & Single sheet tester.	Cl. 8.2 of IS 3024-2015 / Cl.10.6 & Cl.10.10 of IS 649-2007 / IEC 60404-2- 2008 / IEC 60404-3-2002 IEC 60404-3-2002
1949	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical materials - Magnetic materials (CRGO)	Stacking factor.	CL.10.1 of IS 3024-2015 / Cl.43 of IS 649-1997 RA-2018 / IEC 60404-13-2018
1950	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical materials - Magnetic materials (CRGO)	Surface insulation resistivity	Cl.9 of IS 3024-2015 / IS 649 2007 / IEC 60404-11-2012
1951	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical materials - Magnetic materials (CRGO)	Dimensions – Length, width and thickness.	Cl.11.1 & Cl.11.6 of IS 3024 2015 / Cl. 8.1, Cl.8.2, Cl.8.3 of IS 649-2007/ IEC 60404-8-7-1995
1952	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical materials - Magnetic materials (CRNGO)	Ductility / Bend test	Cl.9.2 of IS 648-2006 RA 2018
1953	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Electrical materials - Magnetic materials (CRNGO)	Surface insulation resistivity	ICI.7.2 of S 648-2006 / IEC 60404-11-2012
1954	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited and Un inhibited insulating oils	Ageing characteristics DDF	IS 12177-1987 Method A RA 2018 / IS 335-1993(oid edition) / AST M D 1934-2020 / IS 335-2018 IEC 60296-2020
1955	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited and un Inhibited mineral Insulating oil	Ageing characteristics. Resistivity	IS 12177-1987 Method-A RA 2018 / IS 335-1993(old edition) / IS 335-2018 IEC 60296-2020 / ASTM D 1934-20202018
1956	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited and un inhibited mineral insulating oil	Oxidation stability test DDF	IS 12422-2017 / IEC 61125-2018 / IS 335-2018 / IEC 60296-2020 / ASTM D 2440-2013
1957	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited and Uninhibited mineral insulating oil	Ageing characteristics DDF and Resistivity	IS 12177-1987 (RA
1958	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited and Uninhibited mineral insulating oil	Ageing characteristics DDF and Resistivity	IS 12177-1987 (RA



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1959	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited and Uninhibited mineral insulating oil	Dielectric Dissipation Factor	IS1866:2017 IEC 60422:2013/IS335:2018 IEC60296:2020/ IS 6262: 2016, ASTM D924-15 / IEC 60247
1960	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited and Uninhibited mineral insulating oil	Electric Strength	IS1866:2017 IEC 60422:2013/IS335:2018 IEC60296:2020/IS 6792 2013/ASTM D1816-12(2019)/IEC 60156
1961	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited and Uninhibited mineral insulating oil	Oxidation stability DDF at 90°C	IEC 61125
1962	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Inhibited and Uninhibited mineral insulating oil	Specific Resistance (Resistivity) at 27°C and at 90°C	IS1866:2017 IEC 60422:2013/IS335:2018/ IEC60296:2020/IS 6103 2016/ASTM D1169-19a/ IEC 60247
1963	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulated cables and their accessories for power systems. Connecting equipment for overhead distribution and services of rated voltage 0.6/1kV with at least one insulated core- Electrical Ageing test.	Electrical Ageing Test	NF C 33-004-1
1964	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulated cables and their accessories for power systems. Connecting equipment for overhead distribution and services of rated voltage 0.6/1kV with at least one insulated core- Electrical Ageing test.	Electrical Ageing Tests	NF C 33-004
1965	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulator Strings	Power Arc tests	IEC 61467
1966	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulator Strings	Power Arc tests	IEC 61467
1967	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulator Strings of all types upto 420kV	Voltage Distribution Test	STP-1 / Generally as per IS 2071 -1-2016 / IEC 60060-1-2010



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1968	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulator strings, Post insulators, railway insulators, Long rod insulators, Isolators, Disconnectors, AB switches, Circuit Breakers, reactors, Line traps, Repair sleeves, spacers, spacer dampers, ACSR conductor & accessories - rating from 3.6kV to 400kV (Inclusive)	Corona Inception/ Extinction Test	IS 731:2021 / IS 2121 (Part 2):2018 / IS 4318:2018 / IS 398 (part 5):2018 / IS 2071-1- 2016 / IEC 60060-1- 2010 / IEC 61284-1998 / IEC 60353-2002 / IEC 62271-1-2021 / IEC 60437-1997 / IEC 60383-1-2023 / IEC 60383-2-1993 / RDSO Spec. TI/SPC/OHE/INS/0070/2022 TI/SPC/OHE/INS/0070/2022 TI/SPC/OHE/INS/0070/2022 TI/SPC/OHE/INS/0070/2022 TI/SPC/OHE/INS/01012022/ ETI/OHE/51(9/87)/2022 / ETI/OHE/51(9/87)/2022 / ETI/OHE/15(9/91)/1991 / VDE 0278-628-2002 / VDE 078-629-1- 2019 / ANSI /IEEE C29-1
1969	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulator strings, Post insulators, railway insulators, Long rod insulators, Isolators, Disconnectors, AB switches, Circuit Breakers, reactors, Line traps, Repair sleeves, spacers, spacer dampers, ACSR conductor & accessories - rating from 3.6kV to 400kV (Inclusive)	Corona Inception/ Extinction Test	STP-2 / PGCILSPEC. C/ENGG/SPEC/GTR. REV.14/2017 / ANSI /IEEE C29-2A-2020 / ANSI /IEEE C29-2B- 2013 / ANSI /IEEE C29-2B- 2013 / ANSI /IEEE C29-4-2022 / ANSI /IEEE C29-4-2022 / ANSI /IEEE C29-5-2022 / ANSI /IEEE C29-6- 2022 / ANSI /IEEE C29-7-2015 / ANSI /IEEE C29-8
1970	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulators and conductor fittings for overhead power lines	Resistance Measurement	BS 3288 part 1
1971	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulators and conductor fittings for overhead power lines	Resistance Measurement	BS 3288 part 1
1972	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Insulators/Bushings, Circuit Breakers/Lightning Arresters, housings of CVT, C.T's, P.T's, Ceramic and Glass Insulator to be used as Outdoor exposed to Polluted Outdoor Atmosphere/UG Cables and Accessories	Pollution performance	IS 8704-2018 / IEC 60507- Cor 1-2018 / IEC 61109-2008 / IEEE C62.11-2020/ IS 13573 (Part 2) & (Part 3) : 2011
1973	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Kraft Paper, Press Board	Degree of Polymerization	ASTM D 4243
1974	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/section Ratings From 3kV To 12kV (Inclusive)	Duty cycle test / Switching surge energy rating test/ Single Impulse Withstand rating Test	IEEE C62.11
1975	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/section Ratings From 3kV To 12kV (Inclusive)	Operating Duty test	IEC 60099-4 -2014 / IEC60099-4-2009 / IS 15086-4:2017 / Withdrawn IS 3070 (part 3):



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1976	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Rating from 3kV to 12kV	Duty cycle test/Switching surge energy rating Test/ Single Impulse withstand rating Test	IEEE C62.11
1977	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Rating from 3kV to 12kV (Inclusive)	Operating Duty Test	IEC 60099-4 -2014 / IEC60099-4-2009 / IS 15086-4:2017 / Withdrawn IS 3070 (part 3):
1978	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Discharge-voltage characteristics test	IEEE C62.11
1979	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Discharge-voltage characteristics test	IEEE C62.11
1980	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Discharge-voltage characteristics test	IEEE C62.11
1981	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Discharge-voltage characteristics test	IEEE C62.11
1982	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Discharge-voltage characteristics test	IEEE C62.11
1983	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	High current impulse Residual voltage test/ High current impulse withstand test	IEC 60099-8 Edition 2.0
1984	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	High current impulse Residual voltage test/ High current impulse withstand test	IEC 60099-8 Edition 2.0
1985	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	High-current short-duration withstand test	IEEE C62.11
1986	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	High-current short-duration withstand test	IEEE C62.11
1987	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Lightning Current Impulse Residual Voltage Test	IEC 60099-8 Edition 2.0
1988	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Lightning Current Impulse Residual Voltage Test	IEC 60099-8 Edition 2.0
1989	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Lightning Impulse Residual Voltage Test	IEC 60099-4- 2009 Edition 2.2 / IEC 60099-4- 2014 Edition 3.0 / IS 15086-4:2017 / Withdrawn IS 3070 -3:



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1990	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Lightning Impulse Residual Voltage Test	IEC 60099-4- 2009 Edition 2.2 / IEC 60099-4- 2014 Edition 3.0 / IS 15086-4:2017 / Withdrawn IS 3070 -3:
1991	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Lightning Impulse Residual Voltage Test	IEC 60099-4- 2009 Edition 2.2 / IEC 60099-4- 2014 Edition 3.0 / IS 15086-4:2017 / Withdrawn IS 3070 -3:
1992	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Lightning Impulse Residual Voltage Test	IEC 60099-4-2009 Edition 2.2 / IEC 60099-4-2014 Edition 3.0 / IS 15086-4-2017 / Withdrawn IS 3070-3
1993	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Lightning Impulse Residual Voltage Test	IEC 60099-4- 2009 Edition 2.2 / IEC 60099-4- 2014 Edition 3.0 / IS 15086-4:2017 / Withdrawn IS 3070 -3:
1994	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Switching Impulse Residual Voltage Test	IEC 60099-4- 2009 Edition 2.2 / IEC 60099-4- 2014 Edition 3.0 / IS 15086-4:2017 / Withdrawn IS 3070 -3:
1995	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Switching Impulse Residual Voltage Test	IEC 60099-4- 2009 Edition 2.2 / IEC 60099-4- 2014 Edition 3.0 / IS 15086-4:2017 / Withdrawn IS 3070 -3
1996	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Switching Impulse Residual Voltage Test	IEC 60099-4- 2009 Edition 2.2 / IEC 60099-4- 2014 Edition 3.0 / IS 15086-4:2017 / Withdrawn IS 3070 -3:
1997	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive) Lightning arrester units Ratings From 9kV To 400kV (Inclusive)	Switching Impulse Residual Voltage Test	IEC 60099-4- 2009 Edition 2.2 / IEC 60099-4- 2014 Edition 3.0 / IS 15086-4:2017 / Withdrawn IS 3070 -3:
1998	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive)	Long Duration current Impulse Withstand Test	IEC 60099-4- 2009 Edition 2.2 / Withdrawn IS 3070-3
1999	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive)	Long Duration current Impulse Withstand Test	IEC 60099-4- 2009 Edition 2.2 / Withdrawn IS 3070-3
2000	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive)	Low current long duration withstand test/Temporary overvoltage (TOV) test	IEEE C62.11
2001	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive)	Low current long duration withstand test/Temporary overvoltage (TOV) test	IEEE C62.11



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2002	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive)	Power frequency voltage versus time characteristics of an arrester	IEC 60099-4- 2009 Edition 2.2 / Withdrawn IS 3070-3
2003	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive)	Power frequency voltage versus time characteristics of an arrester	IEC 60099-4- 2009 Edition 2.2 / Withdrawn IS 3070-3
2004	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive)	Power frequency voltage versus time test	IEC 60099-4-2014 Edition 3.0 / IS 15086-4 / 2017
2005	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive)	Power frequency voltage versus time test	IEC 60099-4-2014 Edition 3.0 / IS 15086-4 / 2017
2006	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive)	Steep Current Impulse Residual Voltage Test	IEC 60099-4-2009 Edition 2.2 / IEC 60099-4-2014 Edition 3.0 / IS 15086-4:2017 / Withdrawn IS 3070-3 / 2009
2007	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive)	Steep Current Impulse Residual Voltage Test	IEC 60099-4-2009 Edition 2.2 / IEC 60099-4-2014 Edition 3.0 / IS 15086-4:2017 / Withdrawn IS 3070-3 / 2009
2008	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive)	Test to verify Repetitive charge transfer rating	IEC 60099-4- 2014 Edition 3.0 / IS 15086-4 / 2017
2009	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 12kV (Inclusive)	Test to verify Repetitive charge transfer rating	IEC 60099-4- 2014 Edition 3.0 / IS 15086-4 / 2017
2010	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 8kV (Inclusive)	Accelerated ageing test	IEC 60099-4-2009 Edition 2.2 / Withdrawn IS 3070-3:2009 / IEC 60099-8 Edition 1.0 / 2017
2011	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 8kV (Inclusive)	Accelerated aging test of varistors	IEEE C62.11
2012	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester Blocks/sections Ratings From 3kV To 8kV (Inclusive)	Test to verify Long Term Stability under continuous operating voltage	IEC 60099-4-2014 Edition 3.0 / IS 15086-4 / 2017
2013	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester units Ratings From 3kV To 400kV (Inclusive)	Heat dissipation behavior verification of the test sample	IEC 60099-4-2014 / IS 15086-4 / 2017
2014	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester units Ratings From 3kV To 400kV (Inclusive)	Test to verify thermal equivalency between complete arrester and arrester section.	IEC 60099-4-2009 Edition 2.2 / Withdrawn IS 3070-3 / 2009



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2015	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester/unit/ block Ratings From 3kV To 1200kV (Inclusive)	Measurement of reference Voltage	IEC 60099-4- 2009 Edition 2.2 / IEC 60099-4-2014 Edition 3.0 / IS 15086-4 -2017 / Withdrawn IS 3070-3-2009 / IEC 60099-8-2017 Edition 1.0 / IEEE C62.11
2016	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester/unit/ block Ratings From 3kV To 1200kV (Inclusive)	Measurement of reference Voltage	IEC 60099-4- 2009 Edition 2.2 / IEC 60099-4-2014 Edition 3.0 / IS 15086-4 -2017 / Withdrawn IS 3070-3-2009 / IEC 60099-8-2017 Edition 1.0 / IEEE C62.11:
2017	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester/unit/ block Ratings From 3kV To 1200kV (Inclusive)	Power loss Measurement	IEC 60099-4-2009 Edition 2.2 / IEC 60099-4-2014 Edition 3.0 / IS 15086-4 -2017 / Withdrawn IS 3070-3 :2009 / IEC 60099-8-2017 Edition 1.0 / IEEE C62.11
2018	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester/unit/ block Ratings From 3kV To 1200kV (Inclusive)	Power loss Measurement	IEC 60099-4-2009 Edition 2.2 / IEC 60099- 4-2014 Edition 3.0 / IS 15086-4 -2017 / Withdrawn IS 3070-3 :2009 / IEC 60099-8-2017 Edition 1.0 / IEEE C62.11:
2019	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester/unit/ block Ratings From 3kV To 1200kV (Inclusive)	Resistive / leakage current Measurement	IEC 60099-4-2009 Edition 2.2 / IEC 60099-4-2014 Edition 3.0 / IS 15086-4 -2017 / Withdrawn IS 3070-3 :2009 / IEC 60099-8-2017 Edition 1.0 / IEEE C62.11: 2020
2020	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Lightning arrester/unit/ block Ratings From 3kV To 1200kV (Inclusive)	Resistive / leakage current Measurement	IEC 60099-4-2009 Edition 2.2 / IEC 60099-4-2014 Edition 3.0 / IS 15086-4 -2017 / Withdrawn IS 3070-3 :2009 / IEC 60099-8-2017 Edition 1.0 / IEEE C62.11: 2020
2021	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Oil, solid and powder samples	Thermal conductivity	IS022007-2-2022
2022	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric insulator/ Composite insulator - core material, Disc/Pin/Post/ Insulating Materials. Ratings From 1kV To 400kV (Inclusive)	Water diffusion test	IEC 62217- 2012 / IEC 61462 : 2007 / IEC 61109-2008 / IEC 62231-2006 / IEC 62231-1-2015
2023	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric insulator/ Composite insulator- core material, Disc/Pin/Post/ Insulating Materials. Ratings From 1kV To 400kV (Inclusive)	Dye penetration Test	IEC 62217- 2012/ IEC 61462-2007 / IEC 61109-2008 / IEC 62231-2006 / IEC 62231-1-2015



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2024	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric insulator/ Composite insulator- core material, Disc/Pin/Post/ Insulating Materials. Ratings From 1kV To 400kV (Inclusive)	Mechanical failing load test	IEC 62217-2012 / IEC 61109 -2008 / IEC 60383-1
2025	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric insulator/ Composite insulator-Core material (T&C, Long rod & B&S) Ratings From 1kV To 400kV (Inclusive)	Sudden Load release test	IEC 62217-2012 / IEC 61109
2026	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric insulator/ Composite insulator-core material, Disc/Pin/Post/ Insulating Materials, Hollow Insulator. Rating 1kV to 400kV (Inclusive)	Water Immersion test	IEC 62217-2012 / IEC 61462-2007 / IEC 61109-2008 / IEC 62231-2006 / IEC 62231-1-2015 ANSI/IEEE C29.13
2027	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric insulators from 1kV to 145kV	Assembled core load time test	IEC 61109- 2008 / IEC 62217-2012
2028	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric insulators from 1kV to 145kV	Assembled core load time test	IEC 61109-2008 / IEC 62217-2012
2029	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric insulators from 1kV to 145kV	Damage limit proof test.	IEC 61109- 2008 / IEC 62217-2012
2030	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric insulators from 1kV to 145kV	Damage limit proof test.	IEC 61109-2008 / IEC 62217-2012
2031	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric Materials	Coefficient of Linear Thermal Expansion by TMA (Up to 900°C)	ASTM E 831
2032	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric Materials	Compositional Analysis by TGA	ASTM E 1131
2033	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric Materials	FTIR Spectrometric analysis	ASTM E 1252 -98
2034	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric Materials	Glass Transition Melting Temperature by DSC	ASTM D 3418
2035	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric Materials	Thermal Analysis – Decomposition by TGA up to 1000°C	ASTM D 3850
2032 2033 2034 2035	ELECTRICAL- INSULATING MATERIALS & INSULATORS ELECTRICAL- INSULATING MATERIALS & INSULATORS ELECTRICAL- INSULATING MATERIALS & INSULATORS ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric Materials Polymeric Materials Polymeric Materials Polymeric Materials	Compositional Analysis by TGA FTIR Spectrometric analysis Glass Transition Melting Temperature by DSC Thermal Analysis - Decomposition by TGA up to 1000°C	ASTM E 1131 ASTM E 1252 -98 ASTM D 3418 ASTM D 3850



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2036	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Polymeric/ Composite/ Ceramic or glass insulator Disc/Pin/Post/hollow Insulating Materials. Ratings up To 400kV (Inclusive).	Steep front impulse voltage test	IEC 61109-2008 / IEC 62217-2012 / IEC 61462 -2007 / CIGRE 23-07 / CAN/CSA C411.1 M89 / RDSO SPEC 4318:1998 / PGCIL spec : CC/ENGG/TL/STD/SPEC./COMP.I NSU./R0 / RDSO Spec. TI/SPC/OHE/INSCOM/1071 Rev.01 / IEC 62231-2006 / IEC 62231-1:2015
2037	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Dielectric tests	IS 2026-1 2011 / IS 2026-2:2015 / IS 2026-3:2014 / IS 2026-4:2011 / IS 2026-5:2011 / IEC 60076-1 2011 / IEC 60076-2 2011 / IEC 60076-3 2013 / IEC 60076-5 2006 / IEC 60076-11 2004 / IS 1180-1 2014 / IS 11171 2011 / IS 12021 2005 / IEEE C57.12.90 2010 / IEEE C57.12.20 2011 / IEEE C57.12.00 / 2015
2038	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Induced over voltage withstand	IS 2026-1 2011 , IS 2026-2 2015, IS 2026-3 2014, IS 2026-4 2011, IS 2026-5 2011, IEC 60076-1 2011, IEC 60076-2 2011, IEC 60076-3 2013, IEC 60076-5 2006, IEC 60076-11 2004, IS 1180-1 2014, IS 11171 2011, IS 12021 2005, IEEE std C57.12.90 2010, IEEE std C57.12.202011, IEEE std C57.12.00
2039	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Induced over voltage withstand	IS 2026-1 2011, IS 2026-2 2015, IS 2026-3 2014, IS 2026-4 2011, IS 2026-5 2011, IEC 60076-1 2011, IEC 60076-2 2011, IEC 60076-3 2013, IEC 60076-5 2006, IEC 60076-11 2004, IS 1180-1 2014, IS 11171 2011, IS 12021 2005, IEEE std C57.12.90 2010, IEEE std C57.12.20 2011, IEEE std C57.12.00



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2040	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Power transformers Distribution transformers(Non Sealed & Sealed) Dry type Power transformers Control Transformers	Measurement of insulation resistance	IS 2026-1 2011, IS 2026-2 2015, IS 2026-3 2014, IS 2026-4 2011, IS 2026 2011, IEC 60076-1 2011, IEC 60076-2 2011, IEC 60076-3 2013, IEC60076-5 2006,IEC 60076-11 2004, IS 1180-1 2014, IS 11171 2011, IS 12021 2005, IEEE std C57.12.90 2010, IEEE std C57.20 2011, IEEE std C57.12.00
2041	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Switchgear Equipment with Control unit	Control electronic element surge withstand capability (SWC) test	IEC 62271-111-2019 / IEEE C37.60-2012
2042	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED lamps and luminaries	Insulation resistance	CI.8.1, IS 16102
2043	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Endurance	IS 16103 (Part 2):2012 Cl.10.3 / IEC 62717, Cl.10.3
2044	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	DC or AC supplied electronic control gear for led modules	Circuit Power Factor	IS 16104 : 2012 (Cl. 9) RA:
2045	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	DC or AC supplied electronic control gear for led modules	Endurance	IS 16104 : 2012 (Cl. 13) RA:
2046	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	DC or AC supplied electronic control gear for led modules	Operational Tests for Abnormal Condition	IS 16104 : 2012 (Cl. 12) RA:
2047	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	DC or AC supplied electronic control gear for led modules	Operational Tests for Abnormal Condition	IS 16104 : 2012 (Cl. 12) RA:
2048	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	DC or AC supplied electronic control gear for led modules	Operational Tests for Abnormal Condition	IS 16104 : 2012 (Cl. 12) RA:
2049	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	DC or AC supplied electronic control gear for led modules	Output Voltage and Current	IS 16104 : 2012 (Cl. 7) RA:
2050	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	DC or AC supplied electronic control gear for led modules	Output Voltage and Current	IS 16104 : 2012 (Cl. 7) RA:
2051	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	DC or AC supplied electronic control gear for led modules	Supply Current	IS 16104 : 2012 (Cl. 10) RA:



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2052	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	DC or AC supplied electronic control gear for led modules	Total Circuit Power	IS 16104 : 2012 (Cl. 8) RA:
2053	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	DC or AC supplied electronic control gear for led modules	Verification of Marking	IS 16104 : 2012 (Cl. 6) RA:
2054	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Construction	IS 15885 (Part 1):2011 (Cl.15) / IEC 61347-1
2055	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Creepage Distances and Clearances	IS 15885 (Part 1&2):2011 +A1:2015 (Cl. 16 and 17) / IEC 61347-1
2056	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Electric Strength	IS 15885 (Part 1):2011 +A1:2015 (Cl.12) / IEC 61347-1
2057	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Electric Strength	IS 15885 (Part 1):2011 +A1:2015 (Cl.12) / IEC 61347-1
2058	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Fault Condition	IS 15885 (Part 1 & 2):2011 +A1:2015 (Cl.14) / IEC 61347-1
2059	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Moisture Resistance and Insulation	IS 15885 (Part 1 & 2):2011+ A1:2015 (Cl.11) / IEC 61347-1
2060	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Moisture Resistance and Insulation	IS 15885 (Part 1& 2):2011+ A1:2015 (Cl.11) / IEC 61347-1
2061	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Moisture Resistance and Insulation	IS 15885 (Part 1&2):2011+ A1:2015 (Cl.11) / IEC 61347-1
2062	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Moisture Resistance and Insulation	IS 15885 (Part 1&2):2011+ A1:2015 (Cl.11) / IEC 61347-1
2063	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Protection against Accidental Contact Against Live Parts	IS 15885 (Part 1):2011+ A1:2015 (Cl.10) / IEC 61347-1 / IS 15882-2 Cl.8
2064	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Provision for Protective Earthing	IS 15885 (Part 1):2011 +A1:2015 (Cl. 9) / IEC 61347-1 / IS 15885-2 Cl.10
2065	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Resistance to Corrosion	IS 15885 (Part 1): 2011+A1:2015 (Cl. 19) / IEC 61347-1 / IS 15885-2 Cl.20



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2066	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 15885 (Part 1):2011 +A1:2015 (Cl. 18) / IEC 61347-1
2067	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 15885 (Part 1):2011 +A1:2015 (Cl. 18) / IEC 61347-1
2068	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 15885 (Part 1):2011 +A1:2015 (Cl. 18) / IEC 61347-1
2069	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 15885 (Part 1):2011 +A1:2015 (Cl. 18) / IEC 61347-1
2070	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 15885 (Part 1):2011 +A1:2015 (Cl. 18) / IEC 61347-1
2071	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 15885 (Part 1):2011 +A1:2015 (Cl. 18) / IEC 61347-1
2072	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 15885 (Part 1):2011 +A1:2015 (Cl. 18) / IEC 61347-1 / IS 15885-2 Cl.19
2073	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 15885 (Part 1):2011 +A1:2015 (Cl. 18) / IEC 61347-1 / IS 15885-2 Cl.19
2074	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 15885 (Part 1):2011 +A1:2015 (Cl. 18) / IEC 61347-1 / IS 15885-2 Cl.19
2075	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Thermal Test for Windings of Ballast	IS 15885 (Part 1):2011+ A1:2015 (Cl.13) / IEC 61347-1
2076	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Verification of Marking	IS 15885 (Part 1):2011+ A1:2015 (Cl.7) / IEC 61347-1
2077	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Verification of Screws, current carrying parts and connections	IS 15885 (Part 1):2011+A1:2015 (Cl. 17) / IEC 61347-1 / IS 15885-2 Cl.18



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2078	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gear	Verification Terminals	IS 15885 (Part 1):2011+ A1:2015 (Cl.8) / IEC 61347-1 / IS 15885-2 Cl.9
2079	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Creepage Distances and Clearances	Cl 17of IS 15885 (Part 2/Sec 13) :2012 RA:
2080	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Electric Strength	CI 12 of IS 15885 (Part 2/Sec 13) :2012 RA
2081	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Electric Strength	Cl 12 of IS 15885 (Part 2/Sec 13) :2012 RA:
2082	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Fault Condition	Cl 14 of IS 15885 (Part 2/Sec 13) :2012 RA:
2083	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Moisture Resistance and Insulation	CI 11 of IS 15885 (Part 2/Sec 13) :2012 RA:
2084	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Moisture Resistance and Insulation	Cl 11 of IS 15885 (Part 2/Sec 13) :2012 RA:
2085	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Moisture Resistance and Insulation	Cl 11 of IS 15885 (Part 2/Sec 13) :2012 RA:
2086	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Moisture Resistance and Insulation	Cl 11 of IS 15885 (Part 2/Sec 13) :2012 RA:
2087	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Protection against Accidental Contact Against Live Parts	Cl 8 of IS 15885 (Part 2/Sec 13) :2012 RA:
2088	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Provision for Protective Earthing	Cl 10 of IS 15885 (Part 2/Sec 13) :2012 RA:
2089	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Resistance to Corrosion	Cl 20 of IS 15885 (Part 2/Sec 13) :2012 RA:
2090	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	Cl 19 of IS 15885 (Part 2/Sec 13) :2012 RA:
2091	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	Cl 19 of IS 15885 (Part 2/Sec 13) :2012 RA



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2092	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	Cl 19 of IS 15885 (Part 2/Sec 13) :2012 RA
2093	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	Cl 19 of IS 15885 (Part 2/Sec 13) :2012 RA
2094	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	Cl 19 of IS 15885 (Part 2/Sec 13) :2012 RA
2095	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	Cl 19 of IS 15885 (Part 2/Sec 13) :2012 RA
2096	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	Cl 19 of IS 15885 (Part 2/Sec 13) :2012 RA
2097	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Terminals	Cl 9 of IS 15885 (Part 2/Sec 13) :2012 RA
2098	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Transformer Heating	Cl 15 of IS 15885 (Part 2/Sec 13) :2012 RA
2099	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Verification of Construction	Cl 16 of IS 15885 (Part 2/Sec 13) :2012 RA
2100	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Verification of Marking	Cl 7 of IS 15885 (Part 2/Sec 13) :2012 RA
2101	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamp Control Gears	Verification of Screws, current carrying parts and connections	Cl 18 of IS 15885 (Part 2/Sec 13) :2012 RA
2102	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps and Luminaires	Verification of Marking	IS 16107 (Part 2/Sec 1): 2012 (Cl.4) / IEC 62722-2-1
2103	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps for General Lighting Services	Cap temperature rise	Cl 11 of IS 15111 : PART 1 : 2002 (REAFFIRMED 2017)
2104	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps for General Lighting Services	Cap temperature rise	Cl 11 of IS 15111 : PART 1 : 2002 (REAFFIRMED 2017)



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2105	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps for General Lighting Services	Fault conditions	Cl 14 of IS 15111 : PART 1 : 2002 (REAFFIRMED 2017)
2106	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps for General Lighting Services	Insulation treatment And Electric Strength After Humidity treatment	Cl 9 of IS 15111 : PART 1 : 2002 (REAFFIRMED 2017)
2107	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps for General Lighting Services	Insulation treatment And Electric Strength After Humidity treatment	Cl 9 of IS 15111 : PART 1 : 2002 (REAFFIRMED 2017)
2108	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps for General Lighting Services	Insulation treatment And Electric Strength After Humidity treatment	Cl 9 of IS 15111 : PART 1 : 2002 (REAFFIRMED 2017)
2109	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps for General Lighting Services	Insulation treatment And Electric Strength After Humidity treatment	Cl 9 of IS 15111 : PART 1 : 2002 (REAFFIRMED 2017)
2110	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps for General Lighting Services	Interchangeability	Cl 7 of IS 15111 : PART 1 : 2002 (REAFFIRMED 2017)
2111	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps for General Lighting Services	Mechanical Strength	Cl 7 of IS 15111 : PART 1 : 2002 (REAFFIRMED 2017)
2112	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps for General Lighting Services	Protection against Accidental contact with live parts	Cl 8 of IS 15111 : PART 1 : 2002 (REAFFIRMED 2017)
2113	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps for General Lighting Services	Resistance to flame and ignition (Glow wire test equipment and Ball pressure test equipment)	Cl 13 of IS 15111 : PART 1 : 2002 (REAFFIRMED 2017)
2114	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps for General Lighting Services	Resistance to flame and ignition (Glow wire test equipment and Ball pressure test equipment)	IS 15111 (Part 1):2014 (Cl.13) IEC 60968, Ed 3.0
2115	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps for General Lighting Services	Resistance to Heat	IS 15111 (Part 1):2002+ A1: 2003 +A2:2007 +A3:2008 +A4:2010 +A5:2014 (Cl.12) / IEC 60968, Ed 3.0 , Cl.12
2116	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps for General Lighting Services	Resistance to Heat	IS 15111 (Part 1):2014 (Cl.12) IEC 60968, Ed 3.0 (Cl.12): 2015
2117	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps for General Lighting Services	Verification of Marking	IS 15111 (Part 1):2014 (Cl.6) IEC 60968, Ed 3.0 (Cl.6)



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2118	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights	Moisture Resistance/Humidity Test/Resistance to dust and Moisture/Moisture resistance & insulation/Insulation resistance and Electric strength after Humidity treatment	IS 10322 (Part 1):2014 (Cl. 9.3) / IS 10322 (Part 5/Sec I) :2012 (Cl.14) / IS 10322 (Part 5/Sec 3) :2012 (Cl.14) / IS 10322(Part 5/Sec 5) (Cl. 14)
2119	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights	Moisture Resistance/Humidity Test/Resistance to dust and Moisture/Moisture resistance & insulation/Insulation resistance and Electric strength after Humidity treatment	IS 10322 (Part 1):2014 (Cl. 9.3) / IS 10322 (Part 5/Sec I) :2012 (Cl.14) / IS 10322 (Part 5/Sec 3) :2012 (Cl.14) / IS 10322(Part 5/Sec 5) (Cl. 14
2120	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Resistance to Dust, Solid Objects and Moisture. Insulation Resistance test , Electric Strength test.	IS 10322 Part 1: 2014 RA 2019 Cl. Section 9, 10.2.1, 10.2.2
2121	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Insulation resistance & electrical strength	CL 14 ,CL 15 IS 10322 : PART 5 2013 RA
2122	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Insulation resistance & electrical strength	cl 21.15 IS 10322 PART 5 SEC 5 2013 RA
2123	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Insulation Resistance Test/ Insulation resistance and electric strength/Moisture resistance and Insulation/Insulation resistance and electric strength after Humidity treatment	IS 10322 (Part 1) :2014 (Cl. 10) / IS 10322 (Part 5/Sec I) :2012 (Cl.15) / IS 10322 (Part 5/Sec 3) :2012 (Cl.15) / IS 10322(Part 5/Sec 5) (Cl. 15)
2124	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Insulation Resistance Test/ Insulation resistance and electric strength/Moisture resistance and Insulation/Insulation resistance and electric strength after Humidity treatment	IS 10322:2014 (Part 1) (Cl. 10) / IS 10322 (Part 5/Sec I) :2012 (Cl.15) / IS 10322 (Part 5/Sec 3) :2012 (Cl.15) / IS 10322(Part 5/Sec 5) (Cl. 15)
2125	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Insulation Resistance Test/ Insulation resistance and electric strength/Moisture resistance and Insulation/Insulation resistance and electric strength after Humidity treatment Electric Strength Test/ Insulation resistance and electric strength/ Electric strength	IS 10322 (Part 1) (Cl. 10) / IS 10322 (Part 5/Sec I) :2012 (Cl. 15) / IS 10322 (Part 5/Sec 3) :2012 (Cl.15) / IS 10322(Part 5/Sec 5) :2013 (Cl. 15)



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2126	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Insulation Resistance Test/ Insulation resistance and electric strength/Moisture resistance and Insulation/Insulation resistance and electric strength after Humidity treatment Electric Strength Test/ Insulation resistance and electric strength/ Electric strength	IS 10322 (Part 1):2014 (Cl. 10) / IS 10322 (Part 5/Sec I) :2012 (Cl. 15) / IS 10322 (Part 5/Sec 3) :2012 (Cl.15) / IS 10322(Part 5/Sec 5) (Cl. 15)
2127	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Insulation Resistance Test/ Insulation resistance and electric strength/Moisture resistance and Insulation/Insulation resistance and electric strength after Humidity treatment Electric Strength Test/ Insulation resistance and electric strength/ Electric strength	IS 10322 (Part 1):2014 (Cl. 10) / IS 10322 (Part 5/Sec I) :2012 (Cl.15) / IS 10322 (Part 5/Sec 3) :2012 (Cl.15) / IS 10322(Part 5/Sec 5) (Cl. 15)
2128	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Moisture Resistance/Humidity Test/Resistance to dust and Moisture/Moisture resistance & insulation/Insulation resistance and Electric strength after Humidity treatment	IS 10322 (Part 1) :2014 (Cl. 9.3) / IS 10322 (Part 5/Sec I) :2012 (Cl.14) / IS 10322 (Part 5/Sec 3) :2012 (Cl.14) / IS 10322(Part 5/Sec 5) (Cl. 14)
2129	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Moisture Resistance/Humidity Test/Resistance to dust and Moisture/Moisture resistance & insulation/Insulation resistance and Electric strength after Humidity treatment	IS 10322 (Part 1) :2014 (Cl. 9.3) / IS 10322 (Part 5/Sec I) :2012 (Cl.14) / IS 10322 (Part 5/Sec 3) :2012 (Cl.14) / IS 10322(Part 5/Sec 5) :2013 (Cl. 14)
2130	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Moisture Resistance/Humidity Test/Resistance to dust and Moisture/Moisture resistance & insulation/Insulation resistance and Electric strength after Humidity treatment	IS 10322 (Part 1):2014 (Cl. 9.3) / IS 10322 (Part 5/Sec I) :2012 (Cl.14) / IS 10322 (Part 5/Sec 3) :2012 (Cl.14) / IS 10322(Part 5/Sec 5) (Cl. 14)
2131	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Protection against Accidental Contact with live parts/Protections against electric shock	IS 10322 (Part 1) : (Cl. 8) / IS10322(Part 5/Sec I) (Cl. 12) / IS10322 (Part 5/Sec 3) (Cl.12) / IS10322(Part 5/Sec 5) (Cl.12)
2132	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Protection against Accidental Contact with live parts/Protections against electric shock	IS 10322 (Part 1) :2014 (Cl. 8) / IS10322(Part 5/Sec I) (Cl. 12) / IS10322 (Part 5/Sec 3) (Cl.12) / IS10322(Part 5/Sec 5) (Cl.12)



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2133	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Protection against Accidental Contact with live parts/Protections against electric shock	IS 10322 (Part 1) :2014 (Cl. 8) / IS10322(Part 5/Sec I) :2012 (Cl. 12) / IS10322 (Part 5/Sec 3) :2012 (Cl.12) / IS10322(Part 5/Sec 5) (Cl.12)
2134	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Provision for Protective Earthing/ Provision for Earthing	IS 10322 (Part 1) :2014 (Cl. 7) / IS 10322 (Part 5/Sec I) :2012 (Cl. 9) / IS10322(Part 5/Sec 3) :2012 (Cl.9) / IS10322(Part 5/Sec 5) (Cl.9)
2135	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 10322 (Part 1) (Cl. 13.2) / IS 10322 (Part 5/Sec I) :2012 (Cl. 16) / IS 10322 (Part 5/Sec 3:2012) (Cl.16) / IS 10322(Part 5/Sec 5) :2013 (Cl. 16)
2136	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 10322 (Part 1):2014 (Cl. 13.2) / IS 10322 (Part 5/Sec I) :2012 (Cl. 16) / IS 10322 (Part 5/Sec 3:2012) (Cl.16) / IS 10322(Part 5/Sec 5) (Cl. 16)
2137	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 10322 (Part 1):2014 (Cl. 13.2) / IS 10322 (Part 5/Sec I) :2012 (Cl. 16) / IS 10322 (Part 5/Sec 3:2012) (Cl.16) / IS 10322(Part 5/Sec 5) (Cl. 16)
2138	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 10322 (Part 1):2014 (Cl. 13.2) / IS 10322 (Part 5/Sec I) :2012 (Cl. 16) / IS 10322 (Part 5/Sec 3:2012) (Cl.16) / IS 10322(Part 5/Sec 5) (Cl. 16)
2139	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Thermal and Endurance Test/ Endurance test and thermal test/ Thermal endurance test for windings of ballasts	IS 10322 (Part 1):2014 (Cl. 12) / IS 10322 (Part 5/Sec I) :2012 (Cl.13) / IS 10322 (Part 5/Sec 3) :2012 (Cl.13) / IS 10322(Part 5/Sec 5) (Cl. 13)
2140	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Verification of Marking	IS 10322 (Part 1):2014 (Cl. 3) / IS 10322(Part 5/Sec I) :2012 (Cl.6) / IS10322(Part 5/Sec 3):2012 (Cl.6) / IS10322(Part 5/Sec 5) (Cl.6
2141	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Lamps, Luminaries And Accessories (Fixed General Purpose Luminaries, Luminaires For Road And Street Lighting, Flood Lights)	Verification of Provision for Protective Earthing/ Provision for Earthing	IS 10322 (Part 1) :2014 (Cl. 7) / IS 10322 (Part 5/Sec I) :2012 (Cl. 9) / IS10322(Part 5/Sec 3) :2012 (Cl.9) / IS10322(Part 5/Sec 5) :2013 (Cl.9)
2142	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED lamps and luminaries	Protection against accidental contact with line parts	CI.7, IS 16102- Part 1,2012



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2143	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED lamps and luminaries	Bending moment, Axial pull test and mass.	IS 16102 part 1 Cl. 6.2
2144	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Lamps and Luminaires	Cap temperature rise	Cl 11 of IS 15111 : PART 1 : 2002 (REAFFIRMED 2017)
2145	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED lamps and luminaries	Cap temperature	CI.10, IS 16102- Part 1
2146	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED lamps and luminaries	Electrical strength	C1.8.2, IS 16102- 1
2147	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Lamps and luminaries	Harmonics	IS 15111 (Part 2):2002 +A1:2003+A2:2003+A3:2003 +A4:2004+A5:2005+A6:2008 +A7:2009+A8:2012/ (Cl. 14) / IEC 60969
2148	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED lamps and luminaries	Resistance to flame and ignition	C1.12, IS 16102- Part 1
2149	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED lamps and luminaries	Torsional resistance of unused lamps	CI.9, IS 16102- 1
2150	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Creepage Distances and Clearances	IS 16103 (Part 1):2012+ A1:2014 (Cl.16) / IEC 62031
2151	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Dimensions	IS 16103 (Part 2):2012,Cl.5 / IEC 62717, Cl.5
2152	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Electric Strength	IS 16103 (Part 1): 2012+A1:2014 (Cl 12) / IEC 62031
2153	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Electric Strength	IS 16103 (Part 1): 2012+A1:2014 (Cl 12) / IEC 62031
2154	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Fault Condition	IS 16103 (Part 1):2012 +A1:2014 (Cl.13) / IEC 62031
2155	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Heat Management	IS 16103 (Part 1):2012+ A1:2014 (Cl.21) / IEC 62031
2156	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Information for Luminaire Design	IS 16103 (Part 2):2012 Cl. 12 / IEC 62717,Cl. 12



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2157	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Module Power	IS 16103(Part 2): 2012,Cl.7 / IEC 62717, Cl.7
2158	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Module Power	IS 16103(Part 2): 2012,Cl.7 / IEC 62717, Cl.7
2159	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Module Power	IS 16103(Part 2): 2012,Cl.7 / IEC 62717, Cl.7
2160	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Moisture Resistance and Insulation	IS 16103 (Part 1):2012 +A1:2014 (Cl.11) / IEC 62031
2161	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Moisture Resistance and Insulation	IS 16103 (Part 1):2012 +A1:2014 (Cl.11) / IEC 62031
2162	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Moisture Resistance and Insulation	IS 16103 (Part 1):2012 +A1:2014 (Cl.11) / IEC 62031
2163	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Moisture Resistance and Insulation	IS 16103 (Part 1):2012 +A1:2014 (Cl.11) / IEC 62031
2164	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Protection against Accidental Contact Against Live Parts	IS 16103 (Part 1):2012 +A1:2014 (Cl.10) / IEC 62031
2165	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Provision for Protective Earthing	IS 16103 (Part 1):2012+A1:2014 (Cl.9) / IEC 62031
2166	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Resistance to Corrosion	IS 16103 (Part 1):2012 +A1 : 2014 (Cl.19) / IEC 62031
2167	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 16103 (Part 1): 2012+ A1:2014 (Cl.18) / IEC 62031
2168	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 16103 (Part 1): 2012+ A1:2014 (Cl.18) / IEC 62031
2169	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 16103 (Part 1): 2012+ A1:2014 (Cl.18) / IEC 62031



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2170	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 16103 (Part 1): 2012+ A1:2014 (Cl.18) / IEC 62031
2171	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 16103 (Part 1): 2012+ A1:2014 (Cl.18) / IEC 62031
2172	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Verification of Marking	IS 16103 (Part 1):2012 +A1:2014 (Cl.7) / IEC 62031
2173	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Verification of Marking	IS 16103 (Part 2):2012,Cl.4 / IEC 62717, Cl.4
2174	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Verification of Screws, current carrying parts and connections	IS 16103 (Part 1):2012+ A1:2014 (Cl.17) / IEC 62031
2175	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General lighting	Verification of Terminals	IS 16103 (Part 1):2012 (Cl.8) / IEC 62031
2176	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	LED Modules for General Lighting Services	Electric Strength	IS 16103 (Part 1): 2012+A1:2014 (Cl 12) / IEC 62031
2177	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaire	: Insulation resistance and Electric strength	IS 10322 : PART 1 Sec 10
2178	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaire	CREEPAGE DISTANCES AND CLEARANCES	IS 10322 part 1
2179	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaire	ENDURANCE TEST AND THERMAL TEST	IS 10322 part 1
2180	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaire	INSULATION RESISTANCE AND ELECTRIC STRENGTH	IS 10322 part 1
2181	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaire	Protection against Accidental Contact with live parts/Protections against electric shock	IS 10322 (Part 1) : (Cl. 8)
2182	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaire	PROTECTION AGAINST ELECTRIC SHOCK	IS 10322 part 1
2183	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaire	PROVISION FOR EARTHING	IS 10322 part 1



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2184	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaire	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE	SEC 9 IS 10322 : PART 1
2185	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaire	Resistance to Heat, Fire and Tracking (Glow wire test equipment and Ball pressure test equipment)	IS 10322 part 1
2186	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaire	Verification of Marking	IS 10322 (Part 1) (Cl. 3)
2187	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaires	Insulation resistance Test, Electric strength test	cl 10.2.2 IEC:60598-1. 2014(Withdrawn) amd
2188	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaires	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE	cl 21.14 IEC 60598-1 2014(Withdrawn) amd
2189	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaires	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE	cl 21.14 sec 60598-1 2014(Withdrawn) amd
2190	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaires	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE	CL10.2.1 IEC:60598-1 2014(Withdrawn) amd
2191	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaires	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE,	SEC 9 IS 10322 : PART 1
2192	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaires	Test – Insulation resistance, Test – Electric strength	cl 10.2.2 IEC:60598-1. 2014(Withdrawn) amd
2193	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaries	Insulation resistance & electrical strength	CL 14 ,CL 15 IS 10322 : PART 5 2013 RA
2194	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaries	Insulation resistance & electrical strength	CI 21.15 IS 10322 PART 5 SEC 5 2013 RA
2195	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Luminaries	Insulation resistance and Electric strength	IS 10322 : PART 1 Sec 10
2196	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LED Lamps for General lighting Services	Creepage Distance and Clearances	IS 16102 (Part 1), Clause. 14
2197	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LED Lamps for General lighting Services	Fault Condition	IS 16102 (Part 1), Clause. 13



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2198	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LED Lamps for General lighting Services	Verification of marking	IS 16102 (Part 1), Clause. 5
2199	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self ballasted LED	Verification of Marking	IS16012-2 Cl.5
2200	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	SELF BALLASTED LED LAMPS	DIMENSIONS	IS 16102-2, Cl.6
2201	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	SELF BALLASTED LED LAMPS	HARMONICS	IS 16102 -2 CL. 8.3
2202	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	SELF BALLASTED LED LAMPS	POWER FACTOR	IS 16102-2, Cl.8.2
2203	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Creepage distances Clearances	IS 16102 (Part 1):2012+A1: 2015+A2:2015 (Cl.14) / IEC 62560
2204	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Endurance	IS 16102 (Part 2):2017 Cl 11.3 / IEC 62612 ,Cl. 11.3
2205	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Endurance	IS 16102 (Part 2):2017 Cl 11.3 / IEC 62612 Cl. 11.3
2206	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Endurance	IS 16102 (Part 2):2017 Cl 11.3 / IEC 62612 ,Cl. 11.3
2207	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2208	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2209	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2210	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2211	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560



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2212	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2213	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2214	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2215	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2216	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2217	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2218	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2219	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2220	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2221	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2222	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2223	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2224	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560
2225	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560



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2226	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Fault conditions	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.13) / IEC 62560	
2227	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Insulation treatment And Electric Strength After Humidity treatment	IS 16102 (Part 1):2012 +A1:2015+A2:2015 (Cl.8) / IEC 62560 (Cl.8)	
2228	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Insulation treatment And Electric Strength After Humidity treatment	IS 16102 (Part 1):2012 +A1:2015+A2:2015 (Cl.8) / IEC 62560 (Cl.8)	
2229	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Insulation treatment And Electric Strength After Humidity treatment	IS 16102 (Part 1):2012 +A1:2015+A2:2015 (Cl.8) / IEC 62560 (Cl.8)	
2230	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Insulation treatment And Electric Strength After Humidity treatment	IS 16102 (Part 1):2012 +A1:2015+A2:2015 (Cl.8) / IEC 62560 (Cl.8)	
2231	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Insulation treatment And Electric Strength After Humidity treatment	IS 16102 (Part 1):2012 +A1:2015+A2:2015 (Cl.8) / IEC 62560 : (Cl.8)	
2232	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Marking	IS 16102 (Part 1):2012 +A1:2015+A2:2015 (Cl.5) / IEC 62560 cl.5	
2233	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Mechanical strength	IS 16102 (Part 1):2012 +A1:2015+A2:2015 (Cl.9) / IEC 62560	
2234	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Resistance to flame and ignition (Glow wire test equipment and Ball pressure test equipment)	IS 16102 (Part 1):2012 +A1:2015+A2:2015 (Cl.12) / IEC 62560	
2235	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Resistance to flame and ignition (Glow wire test equipment and Ball pressure test equipment)	IS 16102 (Part 1):2012 +A1:2015+A2:2015 (Cl.12) / IEC 62560	
2236	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Resistance to flame and ignition (Glow wire test equipment and Ball pressure test equipment)	IS 16102 (Part 1):2012 +A1:2015+A2:2015 (Cl.12) / IEC 62560	
2237	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Resistance to Heat	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.11) / IEC 62560	
2238	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self Ballasted LEDLamps for General Lighting Services	Resistance to Heat	IS 16102 (Part 1):2012+ A1:2015+A2:2015 (Cl.11) / IEC 62560	
2239	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	SELF BLLASTED LED	LAMP POWER	IS 16102-2, Cl.8.1	



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2240	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self-Ballasted Lamps for General lighting Services	Dimension	IS 15111 (Part 2):2002 +A1:2003+A2:2003+A3:2003 + A4:2004+A5:2005 +A6:2008+A7:2009+A8 :2012(Cl.6) / IEC 60969
2241	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self-Ballasted Lamps for General lighting Services	Lamp Wattage	IS 15111 (Part 2):2002 +A1:2003+A2:2003+A3:2003 +A4:2004+A5:2005+A6:2008 +A7:2009+A8:2012 (Cl. 9) / IEC 60969
2242	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self-Ballasted Lamps for General lighting Services	Lamp Wattage	IS 15111 (Part 2):2002 +A1:2003+A2:2003+A3:2003 +A4:2004+A5:2005+A6:2008 +A7:2009+A8:2012 (Cl. 9) / IEC 60969
2243	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self-Ballasted Lamps for General lighting Services	Lamp Wattage	IS 15111 (Part 2):2002 +A1:2003+A2:2003+A3:2003 +A4:2004+A5:2005+A6:2008 +A7:2009+A8:2012 (Cl. 9) / IEC 60969
2244	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self-Ballasted Lamps for General lighting Services	Power Factor	IS 15111 (Part 2):2002 +A1:2003+A2:2003+A3:2003 +A4:2004+A5:2005+A6:2008 +A7:2009+A8:2012 (Cl. 16) / IEC 60969
2245	ELECTRICAL- LAMPS, LUMINARIES & ACCESSORIES	Self-Ballasted Lamps for General lighting Services	Power Factor	IS 15111 (Part 2):2002 +A1:2003+A2:2003+A3:2003 +A4:2004+A5:2005+A6:2008 +A7:2009+A8:2012 (Cl. 16) / IEC 60969
2246	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Accessibility test MST 11	Cl.10.9 of IS/IEC 61730-2
2247	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Accessibility test MST 11	CI.10.9 of IS/IEC 61730-2
2248	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Bypass diode functionality test MST 07	CI.10.8 of IS/IEC 61730-2
2249	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Bypass diode functionality test MST 07	Cl.10.8 of IS/IEC 61730-2
2250	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Bypass diode thermal test MST 25	CI.10.19 of IS/IEC 61730-2
2251	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Bypass diode thermal test MST 25	Cl.10.19 of IS/IEC 61730-2
2252	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) Module	Cold conditioning MST 55	Cl. 10.32 of IS/IEC 61730-2



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2253	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Continuity test of equipotential bonding MST 13	Cl.10.11 of IS/IEC 61730-2
2254	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Continuity test of equipotential bonding MST 13	Cl.10.11 of IS/IEC 61730-2
2255	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Cut susceptibility test MST 12	CI.10.10 of IS/IEC 61730-2
2256	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Cut susceptibility test MST 12	CI.10.10 of IS/IEC 61730-2
2257	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) Module	Damp heat test MST 53	Cl. 10.30 of IS/IEC 61730-2
2258	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) Module	Dry heat conditioning MST 56	Cl. 10.33 of IS/IEC 61730-2
2259	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Durability of markings MST 05	Cl.10.6 of IS/IEC 61730-2
2260	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Hot-spot endurance test MST 22	CI.10.16 of IS/IEC 61730-2
2261	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) Module	Humidity Freeze test MST 52	Cl. 10.29 of IS/IEC 61730-2
2262	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Impulse voltage test MST 14	Cl.10.12 of IS/IEC 61730-2
2263	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Impulse voltage test MST 14	Cl.10.12 of IS/IEC 61730-2
2264	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Insulation test MST 16	Cl.10.13 of IS/IEC 61730-2
2265	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Insulation test MST 16	Cl.10.13 of IS/IEC 61730-2
2266	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Lap shear strength test MST 36	Cl.10.25 of IS/IEC 61730-2
2267	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Materials creep test MST 37	Cl.10.26 of IS/IEC 61730-2
2268	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Materials creep test MST 37	Cl.10.26 of IS/IEC 61730-2
2269	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Materials creep test MST 37	Cl.10.26 of IS/IEC 61730-2
2270	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Materials creep test MST 37	Cl.10.26 of IS/IEC 61730-2
2271	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Maximum power determination MST 03	Cl.10.4 of IS/IEC 61730-2
2272	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Measurement of Photovoltaic Current- Voltage Characteristics	IS 12762-Part 1



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2273	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Measurement of Photovoltaic Current- Voltage Characteristics	IS 12762-Part 1
2274	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Peel test MST 35	Cl.10.24 of IS/IEC 61730-2
2275	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Performance at STC MST 02	CI.10.3 of IS/IEC 61730-2
2276	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Performance at STC MST 02	CI.10.3 of IS/IEC 61730-2
2277	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Performance at STC MST 02	Cl.10.3 of IS/IEC 61730-2
2278	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Reverse current overload test MST 26	Cl.10.20 of IS/IEC 61730-2
2279	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Robustness of terminations test MST 42	Cl.10.27 of IS/IEC 61730-2
2280	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Screw connections test MST 33	Cl.10.22 of IS/IEC 61730-2
2281	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Sharp edge test MST 06	Cl.10.7 of IS/IEC 61730-2
2282	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Static mechanical load test MST 34	Cl.10.23 of IS/IEC 61730-2
2283	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Temperature test MST 21	Cl.10.15 of IS/IEC 61730-2
2284	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Test samples, Marking and documentation, Pass criteria, Major visual defects, report, modifications, test flow and procedures	Cl. 4,5,6,7,8,9,10,11 of IEC 61215-1
2285	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Thermal cycling test MST 51	CCI. 10.28 of IS/IEC 61730-2
2286	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Thermal cycling test MST 51/Humidity freeze test MST 52/Damp heat test MST 53/Cold conditioning MST 55/Dry heat conditioning MST 56	Cl.10.28, Cl.10.29, Cl.10.30, Cl.10.32, Cl.10.33 of IS/IEC 61730-2
2287	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	UV test MST 54	Cl.10.31 of IS/IEC 61730-2
2288	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Visual inspection	Cl.10.2 of IS/IEC 61730-2
2289	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Wet leakage current test MST 17	Cl.10.14 of IS/IEC 61730-2



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2290	ELECTRICAL- MISCELLANEOUS	Photovoltaic (PV) module	Wet leakage current test MST 17	Cl.10.14 of IS/IEC 61730-2
2291	ELECTRICAL- MISCELLANEOUS	Solar Photovoltaic (PV) Module	Fire test MST 23	Cl. 10.17 of IS/IEC 61730-2
2292	ELECTRICAL- MISCELLANEOUS	Solar Photovoltaic (PV) Module	Ignitability test MST 24	CI.10.18 of IS/IEC 61730-2
2293	ELECTRICAL- MISCELLANEOUS	Solar Photovoltaic (PV) Module	Insulation thickness test MST 04	Cl. 10.5 of IS/IEC 61730-2
2294	ELECTRICAL- MISCELLANEOUS	Solar Photovoltaic (PV) Module	Module breakage test MST 32	Cl. 10.21 of IS/IEC 61730-2
2295	ELECTRICAL- MISCELLANEOUS	Solar Photovoltaic Module	Bypass diode functionality test, Initial measurements, Cleaning and recovery, Final measurements,Requirements	Cl 4.1, Cl 4.2, Cl 6, Cl 8, CL 9 and Cl 10 of IEC 61701
2296	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Bypass diode testing	Cl.4.18 of IS 14286(Part 2):2019 IEC 61215-2
2297	ELECTRICAL- MISCELLANEOUS	Solar Photovoltaic Module	Classification, applications and intended use & Requirements for design and construction	Cl 4,Cl 5, Annex A and Annex B of IS/IEC 61730-1 (RA 2020)
2298	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Hail test	Cl.4.17 of IS 14286(Part 2):2019 IEC 61215-2
2299	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Hot spot endurance test	Cl.4.9 of IS 14286(Part 2):2019 IEC 61215-2
2300	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Insulation test	Cl.4.3 of IS 14286(Part 2):2019 IEC 61215-2
2301	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Maximum power determination	Cl.4.2 of IS 14286(Part 2):2019 IEC 61215-2
2302	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Measurement of NMOT	Cl.4.5 of IS 14286(Part 2):2019 IEC 61215-2
2303	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Measurement of temperature coefficients	Cl.4.4 of IS 14286(Part 2):2019 IEC 61215-2
2304	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Outdoor exposure test	Cl.4.8 of IS 14286(Part 2):2019 IEC 61215-2
2305	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Performance at STC and NMOT,Performance at low irradiance	Cl.4.6,Cl.4.7 of IS 14286(Part 2):2019 IEC 61215-2
2306	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Post stress tests - Electroluminescence imaging	Cl. 4.4.d of IS 17210 (Part 1):2019 IEC TS 62804-1
2307	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Post stress tests - Maximum power determination	Cl. 4.4.a of IS 17210 (Part 1):2019 IEC TS 62804-1
2308	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Post stress tests - Performance at low irradiance	Cl. 4.4.b of IS 17210 (Part 1):2019 IEC TS 62804-1



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2309	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Post stress tests - Visual inspection	Cl. 4.4.e of IS 17210 (Part 1):2019 IEC TS 62804-1
2310	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Post stress tests - Wet leakage current test	Cl. 4.4.c of IS 17210 (Part 1):2019 IEC TS 62804-1
2311	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Pre stress tests - Electroluminescence imaging	Cl. 4.2.f of IS 17210 (Part 1):2019 IEC TS 62804-1
2312	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Pre stress tests - Ground continuity test	Cl. 4.2.g of IS 17210 (Part 1):2019 IEC TS 62804-1
2313	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Pre stress tests - Maximum power determination	Cl. 4.2.c of IS 17210 (Part 1):2019 IEC TS 62804-1
2314	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Pre stress tests - Performance at low irradiance	Cl. 4.2.d of IS 17210 (Part 1):2019 IEC TS 62804-1
2315	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Pre stress tests - stabilization	Cl. 4.2.a of IS 17210 (Part 1):2019 IEC TS 62804-1
2316	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Pre stress tests - Visual inspection	Cl. 4.2.b of IS 17210 (Part 1):2019 IEC TS 62804-1
2317	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Pre stress tests - Wet leakage current test	Cl. 4.2.e of IS 17210 (Part 1):2019 IEC TS 62804-1
2318	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Robustness of terminations	Cl.4.14 of IS 14286(Part 2):2019 IEC 61215-2
2319	ELECTRICAL- MISCELLANEOUS	Solar Photovoltaic Module	Salt mist corrosion test,	CI 7 of IEC 61701
2320	ELECTRICAL- MISCELLANEOUS	Solar Photovoltaic Module	Salt mist corrosion test,	CI 7 of IEC 61701
2321	ELECTRICAL- MISCELLANEOUS	Solar Photovoltaic Module	Salt mist corrosion test,	CI 7 of IEC 61701
2322	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Stabilization	Cl.4.19 of IS 14286(Part 2):2019 IEC 61215-2
2323	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Static mechanical load test	Cl.4.16 of IS 14286(Part 2):2019 IEC 61215-2
2324	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Thermal cycling test, Humidity freeze test, Damp heat test.	Cl.4.11,Cl.4.12,Cl.4.13 of IS 14286(Part 2):2019 IEC 61215-2
2325	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Thermal cycling test, Humidity freeze test, Damp heat test.	Cl.4.11,Cl.4.12,Cl.4.13 of IS 14286(Part 2):2019 IEC 61215-2
2326	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	UV preconditioning test	Cl.4.10 of IS 14286(Part 2):2019 IEC 61215-2
2327	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Verification of Design Qualification and Type Approval	IS 14286 (Part 1):2019 IEC 61215-1



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2328	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Visual Inspection	Cl.4.1 of IS 14286(Part 2):2019 IEC 61215-2
2329	ELECTRICAL- MISCELLANEOUS	Solar Photovoltaic Module	Voltage stress test procedures	CI.4.3 of IS 17210 (Part 1):2019 IEC TS 62804-1
2330	ELECTRICAL- MISCELLANEOUS	Solar Photovoltaic Module	Voltage stress test procedures	CI.4.3 of IS 17210 (Part 1):2019 IEC TS 62804-1
2331	ELECTRICAL- MISCELLANEOUS	Solar Photovoltaic Module	Voltage stress test procedures	Cl.4.3 of IS 17210 (Part 1):2019 IEC TS 62804-1
2332	ELECTRICAL- MISCELLANEOUS	Solar photovoltaic module	Wet leakage current test	Cl.4.15 of IS 14286(Part 2):2019 IEC 61215-2
2333	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Bypass diode thermal test	Cl.10.18 of IS 14286:2010 IEC 61215(Withdrawn)
2334	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Damp heat test	Cl.10.13 of IS 14286:2010 IEC 61215(Withdrawn)
2335	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Hail test	Cl.10.17 of IS 14286:2010 IEC 61215(Withdrawn)
2336	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Hot-spot endurance test	Cl.10.9 of IS 14286:2010 IEC 61215(Withdrawn)
2337	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Humidity freeze test	Cl.10.12 of IS 14286:2010 IEC 61215(Withdrawn)
2338	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Insulation test	Cl.10.3 of IS 14286:2010 IEC 61215(Withdrawn)
2339	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Maximum power determination	Cl.10.2 of IS 14286:2010 IEC 61215(Withdrawn)
2340	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Measurement of nominal operating ceil temperature (NOCT)	Cl.10.5 of IS 14286:2010 IEC 61215(Withdrawn)
2341	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Measurement of temperature coefficients	Cl.10.4 of IS 14286:2010 IEC 61215(Withdrawn)
2342	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Mechanical load test	Cl.10.16 of IS 14286:2010 IEC 61215(Withdrawn)
2343	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Outdoor exposure test	Cl.10.8 of IS 14286:2010 IEC 61215(Withdrawn)
2344	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Performance at low irradiance	Cl.10.7 of IS 14286:2010 IEC 61215(Withdrawn)
2345	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Performance at STC and NOCT	Cl.10.6 of IS 14286:2010 IEC 61215(Withdrawn)
2346	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Robustness of termination test	Cl.10.14 of IS 14286:2010 IEC 61215(Withdrawn)



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2347	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Sampling, Marking, Testing, Pass criteria, Major visual defects, Report	Cl.3, Cl.4, Cl.5, Cl.6, Cl.7, Cl.8 of IS 14286:2010 IEC 61215(Withdrawn)
2348	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Thermal cycling test	Cl.10.11 of IS 14286:2010 IEC 61215(Withdrawn)
2349	ELECTRICAL- MISCELLANEOUS	Solar PV Module	UV preconditioning	Cl.10.10 of IS 14286:2010 IEC 61215(Withdrawn)
2350	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Visual inspection	Cl.10.1 of IS 14286:2010 IEC 61215(Withdrawn)
2351	ELECTRICAL- MISCELLANEOUS	Solar PV Module	Wet leakage current test	Cl.10.15 of IS 14286:2010 IEC 61215(Withdrawn)
2352	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	"Dielectric withstand (HV test) characteristics For a class I EV supply equipment. (Un/230V + 1 200 V) (r.m.s.)- 1 min- AC Voltage"	Cl. No. 11.3 of IS 17017 (Part 1)
2353	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	4 System configuration 5 Digital communication architecture 6 Charging control process 7 Overview of charging control 8 Exchanged information for DC charging control	Cl. No. 4, 5, 6, 7, 8 of IEC 61851-24:2023
2354	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Access "- equipment for locations with restricted access; - equipment for locations with non-restricted access."	Cl. No. 5.4 of IS 17017 (Part 1)
2355	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Annex A (normative) Digital communication for control of DC EV charging system A	Annex A of IEC 61851-24:2023
2356	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Annex B (normative) Digital communication for control of DC charging system B	Annex B of IEC 61851-24:2023
2357	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Annex C (normative) Digital communication for control of DC charging system C	Annex C of IEC 61851-24:2023
2358	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Automatic reclosing of protective devices	Cl. No. 14 of IS 17017 (Part 1)
2359	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Cable assembly requirements General Construction requirements Cable dimensions Strain relief	Cl. No. 11,11.1,11.4,11.5,11.6 of IS 17017 (Part 1)



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2360	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Cable management and storage means for cables assemblies- height between 0,5 m and 1,5 m above ground level. Cable length shall not exceed 7,5 m	Cl. No. 11.7 of IS 17017 (Part 1)
2361	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Characteristics of power supply input" - EV supply equipment connected to AC supply network; - EV supply equipment connected to DC supply network." "- Plug and cable connected; - Permanently connected."	Cl. No. 5.1.1 of IS 17017 (Part 1)
2362	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Characteristics of power supply output "- AC EV supply equipment; - DC EV supply equipment; - AC and/or DC EV supply equipment."	Cl. No. 5.1.2 of IS 17017 (Part 1)
2363	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	CHARGING CONTROL PROCESS OVERVIEW OF CHARGING CONTROL	Cl. No. 6, 7 of IS 17017 (Part 24)
2364	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Charging modes "- Mode 1; - Mode 2; - Mode 3; - Mode 4."	Cl. No. 5.7 of IS 17017 (Part 1)
2365	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Charging modes and functions	Cl. No. 6, 6.1, 6.2, 6.3.2 of IS 17017 (Part 1)
2366	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Clearances and creepage distances	Cl. No. 12.3 of IS 17017 (Part 1)
2367	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	DIGITAL COMMUNICATION ARCHITECTURE	Cl. No. 5 of IS 17017 (Part 24)
2368	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	DIGITAL COMMUNICATION FOR CONTROL OF DC EV CHARGING SYSTEM A	Annexure A of IS 17017 (Part 24)
2369	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	DIGITAL COMMUNICATION FOR CONTROL OF DC CHARGING SYSTEM C (COMBINED SYSTEM)	Annexure C of IS 17017 (Part 24)
2370	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Disconnection of plug connected EV supply equipment Loss of supply voltage to permanently connected EV supply equipment	Cl. No. 8.2.1, 8.2.2 of IS 17017 (Part 1)
2371	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Durability test for marking- 15 sec rubbing	Cl. No. 16.5 of IS 17017 (Part 1)
2372	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Emergency switching or disconnect (optional)	Cl. No. 15 of IS 17017 (Part 1)



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2373	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	EXCHANGED INFORMATION FOR DC CHANRGING CONTROL	Cl. No. 8 of IS 17017 (Part 24)
2374	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Functional description of the basic interface The following contacts are indicated: • up to three phases (L1, L2, L3); • neutral (N); • protective conductor (PE); • control pilot (CP); • proximity contact (PP).	Cl. No. 9.3 of IS 17017 (Part 1)
2375	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Functions provided in Mode 2, 3 and 4 Verification that the EV is properly connected to the EV supply equipment-continuity of the control pilot circuit Energization of the power supply to the EV De- energization of the power supply to the EV Maximum allowable current	Cl. 6.3, 6.3.1.3, 6.3.1.4, 6.3.1.5, of IS 17017 (Part 1)
2376	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	General - Overload and short- circuit protection	Cl. No. 13.1 of IS 17017 (Part 1)
2377	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Impulse dielectric withstand (1,2 μs/50 μs)- 2.5kV (OV-II)	Cl. No. 12.7.2 of IS 17017 (Part 1)
2378	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Inrush current- verify switching devices	Cl. No. 12.2.6 of IS 17017 (Part 1)
2379	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Installation manual of EV charging stations User manual for EV supply equipment Marking of EV supply equipment Marking of charging cable assemblies case B	Cl. No. 16.1, 16.2, 16.3, 16.4 of IS 17017 (Part 1)
2380	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Insulation resistance- 500V DC , 1 min	Cl. No. 12.5 of IS 17017 (Part 1)
2381	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Maximum allowable current	Cl. No. 6.3.1.6 of IS 17017 (Part 1)
2382	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Mechanical strength- IK 08	Cl. No. 12.11 of IS 17017 (Part 1)



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2383	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Mounting method "a) stationary equipment; - mounted on walls, poles or equivalent positions: • flush mounted; • surface mounted pole/column/pipe-mounted - floor mounted - ground mounted." "b) non stationary equipment - portable equipment; - mobile equipment."	Cl. No. 5.5 of IS 17017 (Part 1)
2384	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Normal environmental conditions "- indoor use; - outdoor use."	Cl. No. 5.2 of IS 17017 (Part 1)
2385	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Overload protection of the cable assembly- 1.3 times rated current (1 min trip) "Short-circuit protection of the charging cable at the EV socket-outlet- 75000 A2-sec at the vehicle connector-80000 A2-sec"	Cl. No. 13.2, 13.3 of IS 17017 (Part 1)
2386	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Protection against electric shock "- class l equipment; - class II equipment; - class III equipment."	Cl. No. 5.6 of IS 17017 (Part 1)
2387	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Requirements for CP & PP	Annexure A and B of IS 17017 (Part 1)
2388	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Residual current protective devices	Cl. No. 8.5 of IS 17017 (Part 1)
2389	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Special environmental conditions	Cl. No. 5.3 of IS 17017 (Part 1)
2390	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Switch and switch-disconnector Contactor Circuit-breaker Relays Inrush current	Cl. No. 12.2.2, 12.2.3, 12.2.4, 12.2.5, 12.2.6, of IS 17017 (Part 1)
2391	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	SYSTEM CONFIGURATION	Cl. No. 4 of IS 17017 (Part 24)
2392	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Temperature rise- Components	Cl. No. 12.8 of IS 17017 (Part 1)
2393	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Touch current (Cl. No. 12.6 of IS 17017 (Part 1)
2394	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	AC withstand voltage	Cl. No. 12.7.1 of IEC 61851-1
2395	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Access	Cl. No. 5.4 of IEC 61851-1


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2396	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	AUTOMATIC RECLOSING OF PROTECTIVE DEVICES	Cl. 14 of IS 17017 (Part 23)
2397	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Automatic reclosing of protective devices	Cl. No. 14 of IEC 61851-1
2398	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Avoidance of Breaking Under Load	Cl. 9.101 of IS 17017 (Part 23)
2399	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	BI-DIRECTIONAL POWER FLOW CONTROL	Annex C of IS 17017 (Part 23)
2400	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	CABLE ASSEMBLY REQUIREMENTS	Cl. 11 of IS 17017 (Part 23)
2401	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Cable assembly requirements	Cl. No. 11 of IEC 61851-1
2402	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Cable dimensions	Cl. No. 11.5 of IEC 61851-1
2403	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Cable management and storage means for cables assemblies	Cl. No. 11.7 of IEC 61851-1
2404	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Characteristics of mechanical switching devices	Cl. No. 12.2 of IEC 61851-1
2405	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Characteristics of power supply and output	Cl. No. 5.1 of IEC 61851-1
2406	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Characteristics of power supply and output	Cl. No. 5.1 of IS 17017 (Part 1)
2407	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Characteristics of power supply input	Cl. No. 5.1.1 of IEC 61851-1
2408	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Characteristics of power supply output	Cl. No. 5.1.2 of IEC 61851-1
2409	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Charging cable assembly requirements	Cl. 10 of IEC 61851-23
2410	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Charging modes	Cl. No. 5.7 of IEC 61851-1
2411	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Charging modes	Cl. No. 6.2 of IEC 61851-1
2412	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Charging modes and functions	Cl. No. 6 of IEC 61851-1
2413	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Charging stopped by user	Cl. 6.3.1.110 of IS 17017 (Part 23)
2414	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Charging stopped by user	Cl. 6.4.3.111 of IEC 61851-23
2415	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Circuit-breaker	Cl. No. 12.2.4 of IEC 61851-1



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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
2416	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Classification	Cl. No. 5 of IEC 61851-1
2417	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Classification	Cl. No. 5 of IS 17017 (Part 1)
2418	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Classifications	Cl. 5 of IS 17017 (Part 23)
2419	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Clearances and creepage distances	Cl. No. 12.3 of IEC 61851-1
2420	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	COMMUNICATION AND CHARGING PROCESS BETWEEN d.c. ELECTRIC	Annex F of IS 17017 (Part 23)
2421	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Communication between EV and d.c. EV charging station (according to IEC 61851-24 standard)	Cl. 102 of IEC 61851-23
2422	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Communication between EV and d.c. EV charging station (according to IEC 61851-24 standard)	Cl. 102 of IS 17017 (Part 23)
2423	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Communications	Cl. 7 of IS 17017 (Part 23)
2424	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Compatibility assessment	Cl. 6.3.1.104 of IS 17017 (Part 23)
2425	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Compatibility assessment	Cl. 6.4.3.105 of IEC 61851-23
2426	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	CONDUCTIVE ELECTRICAL INTERFACE REQUIREMENTS	Cl. 9 of IS 17017 (Part 23)
2427	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Conductive electrical interface requirements	Cl. No. 9 of IEC 61851-1
2428	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Connection between the power supply and the EV	Cl. 8 of IEC 61851-23
2429	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Construction requirements	Cl. No. 11.4 of IEC 61851-1
2430	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Contactor	Cl. No. 12.2.3 of IEC 61851-1
2431	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Continuous continuity checking of the protective conductor	Cl. No. 6.3.1.2 of IEC 61851-1
2432	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Control delay of charging current in CCC	Cl. 101.2.1.3 of IEC 61851-23
2433	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Control delay of charging current in CCC	Cl. 101.2.3 of IS 17017 (Part 23)





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2434	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	DC EV charging station of system A	Annex A of IS 17017 (Part 23)
2435	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	DC EV charging station of system A (CHAdeMO)	Annex AA of IEC 61851-23
2436	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	DC EV charging station of system B (GB/T)	Annex BB of IEC 61851-23
2437	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	DC EV charging station of system C (CCS- Combined charging system)	Annex B of IS 17017 (Part 23)
2438	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	DC EV charging station of system C (CCS- Combined charging system)	Annex CC of IEC 61851-23
2439	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	DC supply for EV	Cl. 6.3.1.101 of IS 17017 (Part 23)
2440	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	DC supply for EV	Cl. 6.4.3.101 of IEC 61851-23
2441	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	De-energization of the power supply to the EV	Cl. No. 6.3.1.5 of IEC 61851-1
2442	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Descending rate of charging current	Cl. 101.2.1.4 of IEC 61851-23
2443	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Descending rate of charging current	Cl. 101.2.4 of IS 17017 (Part 23)
2444	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Dielectric withstand characteristics	Cl. No. 11.3 of IEC 61851-1
2445	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Dielectric withstand voltage	Cl. No. 12.7 of IEC 61851-1
2446	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Digital communication between the EV supply equipment and the EV	Cl. No. 7.1 of IEC 61851-1
2447	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Digital communication between the EV supply equipment and the management system	Cl. No. 7.2 of IEC 61851-1
2448	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Disconnection of plug connected EV supply equipment	Cl. No. 8.2.1 of IEC 61851-1
2449	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Durability test for marking	Cl. No. 16.5 of IEC 61851-1
2450	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Effective earth continuity between the enclosure and the external protective circuit	Cl. 101.2.2 of IEC 61851-23



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2451	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Effective earth continuity between the enclosure and the external protective circuit	Cl. 8.103.3 of IS 17017 (Part 23)
2452	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Electrical rating	Cl. No. 11.2 of IEC 61851-1
2453	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Electrical rating (32A, 1.5 min)-75000A2-sec	Cl. No. 11.2 of IS 17017 (Part 1)
2454	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Emergency shutdown (EVSE detects abnormality in EVSE or EV)	Cl. 6.3.1.117 of IS 17017 (Part 23)
2455	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Emergency shutdown (EVSE detects abnormality in EVSE or EV)	Cl. 6.4.3.114 of IEC 61851-23
2456	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	EMERGENCY SWITCHING OR DISCONNECT (OPTIONAL)	Cl. 15 of IS 17017 (Part 23)
2457	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Emergency switching or disconnect (optional)	Cl. No. 15 of IEC 61851-1
2458	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Energization of the power supply to the EV	Cl. No. 6.3.1.4 of IEC 61851-1
2459	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	EV SUPPLY EQUIPMENT CONSTRUCTIONAL REQUIREMENTS AND TESTS	Cl. 12 of IS 17017 (Part 23)
2460	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	EV supply equipment constructional requirements and tests	Cl. No. 12 of IEC 61851-1
2461	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	EVSE real time available load current (Optional as per standard requirement)	Cl. 6.3.2.102 of IS 17017 (Part 23)
2462	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	EVSE real time available load current (Optional as per standard requirement)	Cl. 6.4.2 of IEC 61851-23
2463	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	EVSE requirements	Cl. 11 of IEC 61851-23
2464	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Functional description of the basic interface	Cl. No. 9.3 of IEC 61851-1
2465	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Functions provided in Mode 2, 3 and 4	Cl. No. 6.3 of IEC 61851-1
2466	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	General	Cl. No. 11.1 of IEC 61851-1
2467	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	General	Cl. No. 12.1 of IEC 61851-1



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2468	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	General	Cl. No. 13.1 of IEC 61851-1
2469	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	General	Cl. No. 6.1 of IEC 61851-1
2470	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	General	Cl. No. 6.3.1.1 of IEC 61851-1
2471	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	General	Cl. No. 6.3.2.1 of IEC 61851-1
2472	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	General	Cl. No. 9.1 of IEC 61851-1
2473	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	General - Overload and short- circuit protection	Cl. No. 13.1 of IEC 61851-1
2474	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	General requirements	Cl. 4 of IEC 61851-23
2475	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	General requirements	Cl. 4 of IS 17017 (Part 23)
2476	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	GENERAL REQUIREMENTS	Cl. No. 4 of IS 17017 (Part 1)
2477	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Impulse dielectric withstand (1,2 μs/50 μs)	Cl. No. 12.7.2 of IEC 61851-1
2478	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Inrush current	Cl. No. 12.2.6 of IEC 61851-1
2479	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Installation manual of EV charging stations	Cl. No. 16.1 of IEC 61851-1
2480	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Insulation resistance	Cl. 11.5 of IEC 61851-23
2481	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Insulation resistance	Cl. 12.5 of IS 17017 (Part 23)
2482	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Insulation resistance	Cl. No. 12.5 of IEC 61851-1
2483	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Insulation test before charging	Cl. 6.3.1.105 of IS 17017 (Part 23)
2484	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Insulation test before charging	Cl. 6.4.3.106 of IEC 61851-23
2485	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Intentional and unintentional disconnection of the vehicle connector and/or the EV plug	Cl. No. 6.3.2.3 of IEC 61851-1
2486	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Latching of the vehicle coupler	Cl. 6.3.1.103 of IS 17017 (Part 23)
2487	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Load dump	Cl. 101.2.1.7 of IEC 61851-23





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2488	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Load dump	Cl. 101.2.7 of IS 17017 (Part 23)
2489	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Locking of the coupler	Cl. 6.3.1.103 of IS 17017 (Part 23)
2490	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Locking of the coupler	Cl. 6.4.3.104 of IEC 61851-23
2491	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Loss of digital communication	Cl. 9.4 of IEC 61851-23
2492	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Loss of supply voltage to permanently connected EV supply equipment	Cl. No. 8.2.2 of IEC 61851-1
2493	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Mandatory functions in Modes 2, 3, and 4	Cl. No. 6.3.1 of IEC 61851-1
2494	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	MARKING AND INSTRUCTIONS	Cl. 16 of IS 17017 (Part 23)
2495	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Marking of charging cable assemblies case B	Cl. No. 16.4 of IEC 61851-1
2496	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Marking of EV supply equipment	Cl. No. 16.3 of IEC 61851-1
2497	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Maximum allowable current	Cl. No. 6.3.1.6 of IEC 61851-1
2498	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Maximum voltage between DC+/- and protective conductor in conditions with a single earth fault	Cl. 6.3.1.113 of IS 17017 (Part 23)
2499	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Measuring current and voltage	Cl. 6.4.3.102
2500	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Mechanical strength	Cl. No. 12.11 of IEC 61851-1
2501	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Mode 1	Cl. No. 6.2.1 of IEC 61851-1
2502	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Mode 2	Cl. No. 6.2.2 of IEC 61851-1
2503	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Mode 3	Cl. No. 6.2.3 of IEC 61851-1
2504	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Mode 4	Cl. No. 6.2.4 of IEC 61851-1
2505	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Mode 4 using the combined charging system	Cl. No. 6.3.2.4 of IEC 61851-1
2506	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Mounting method	Cl. No. 5.5 of IEC 61851-1





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2507	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	MULTIOUTLET (A.C./D.C. ISOLATED) D.C. EV SUPPLY EQUIPMENT	Annex E of IS 17017 (Part 23)
2508	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Optional functions for Modes 2, 3 and 4	Cl. No. 6.3.2 of IEC 61851-1
2509	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Output current regulation in CCC	Cl. 101.2.1.2.1 of IEC 61851-23
2510	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Output current regulation in CCC	Cl. 101.2.2.1 of IS 17017 (Part 23)
2511	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Output current regulation in CVC	Cl. 101.2.1.2.2 of IEC 61851-23
2512	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Output voltage and current tolerance	Cl. 101.2.1.2 of IEC 61851-23
2513	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Output voltage and current tolerance	Cl. 101.2.2 of IS 17017 (Part 23)
2514	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Output voltage regulation in CVC	Cl. 101.2.2.2 of IS 17017 (Part 23)
2515	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	OVERLOAD AND SHORT CIRCUIT PROTECTION	Cl. 13 of IS 17017 (Part 23)
2516	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Overload and short-circuit protection	Cl. No. 13 of IEC 61851-1
2517	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Overload protection for parallel conductors	Cl. 6.3.1.111 of IS 17017 (Part 23)
2518	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Overload protection for parallel conductors	Cl. 6.4.3.112 of IEC 61851-23
2519	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Overload protection of the cable assembly	Cl. No. 13.2 of IEC 61851-1
2520	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Periodic and random deviation(current ripple)	Cl. 101.2.1.5 of IEC 61851-23
2521	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Periodic and random deviation(current ripple)	Cl. 101.2.5 of IS 17017 (Part 23)
2522	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Periodic and random deviation(voltage ripple in CVC)	Cl. 101.2.1.6 of IEC 61851-23
2523	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Periodic and random deviation(voltage ripple in CVC)	Cl. 101.2.6 of IS 17017 (Part 23)
2524	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Protection against electric shock	Cl. 7 of IEC 61851-23
2525	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Protection against electric shock	Cl. 8 of IS 17017 (Part 23)



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2526	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Protection against electric shock	Cl. No. 5.6 of IEC 61851-1
2527	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Protection against overvoltage at the battery	Cl. 6.3.1.106 of IS 17017 (Part 23)
2528	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Protection against overvoltage at the battery	Cl. 6.4.3.107 of IEC 61851-23
2529	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Protection against temporary overvoltage	Cl. 6.4.3.113 of IEC 61851-23
2530	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Rated outputs and max. output power	Cl. 101.2.1 of IS 17017 (Part 23)
2531	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Rated outputs and max. output power	Cl. 101.2.1.1 of IEC 61851-23
2532	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Rating of the supply a.c. voltage	Cl. 5 of IEC 61851-23
2533	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Relays	Cl. No. 12.2.5 of IEC 61851-1
2534	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	REQUIREMENTS FOR ADAPTORS	Cl. 10 of IS 17017 (Part 23)
2535	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Requirements for adaptors	Cl. No. 10 of IEC 61851-1
2536	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Requirements for adaptors	Cl. No. 10 of IS 17017 (Part 1)
2537	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Requirements for CP & PP	Cl. No. Annex A & B of IEC 61851-1
2538	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Residual current protective devices	Cl. No. 8.5 of IEC 61851-1
2539	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Residual direct current monitoring device (RDC MD)	Cl. No. 12.2.7 of IEC 61851-1
2540	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Retaining / releasing coupler	Cl. 6.4.3.103 of IEC 61851-23
2541	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Short circuit test before charging	Cl. 6.3.1.109 of IS 17017 (Part 23)
2542	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Short circuit test before charging	Cl. 6.4.3.110 of IEC 61851-23
2543	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Short-circuit protection of the charging cable	Cl. No. 13.3 of IEC 61851-1
2544	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Specific requirements for vehicle coupler	Cl. 9 of IEC 61851-23
2545	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Stored energy	Cl. No. 8.2 of IEC 61851-1



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2546	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Strain relief	Cl. No. 11.6 of IEC 61851-1
2547	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Switch and switch-disconnector	Cl. No. 12.2.2 of IEC 61851-1
2548	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Touch current	Cl. No. 12.6 of IEC 61851-1
2549	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Typical configuration of d.c. charging system	Annex EE of IEC 61851-23
2550	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Typical d.c. charging systems	Annex D of IS 17017 (Part 23)
2551	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Typical d.c. charging systems	Annex DD of IEC 61851-23
2552	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	User manual for EV supply equipment	Cl. No. 16.2 of IEC 61851-1
2553	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Ventilation during supply of energy	Cl. No. 6.3.2.2 of IEC 61851-1
2554	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Verification of the vehicle connector latching	Cl. 6.3.1.107 of IS 17017 (Part 23)
2555	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Verification of the vehicle connector voltage	Cl. 6.4.3.108 of IEC 61851-23
2556	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Verification that the EV is properly connected to the EV supply equipment	Cl. No. 6.3.1.3 of IEC 61851-1
2557	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Welding detection	Cl. 102.5 of IEC 61851-23
2558	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Welding detection	Cl. 102.5 of IS 17017 (Part 23)
2559	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Zero current confirmed	Cl. 102.5 of IEC 61851-23
2560	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Electric Vehicle Supply Equipment (EVSE) or EV Charger	Zero current confirmed	Cl. 102.5 of IS 17017 (Part 23)
2561	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied and off grid Inverters and UPS	Islanding protection	CI 5.3 of IS/IEC 61727
2562	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied and off grid Inverters and UPS	DC Injection	Cl 4.4 of IS/IEC 61727
2563	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied and off grid Inverters and UPS	Flicker	Cl 4.3 of IS/IEC 61727
2564	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied and off grid Inverters and UPS	Harmonics and waveform distortion	Cl 4.6 of IS/IEC 61727
2565	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied and off grid Inverters and UPS	Isolation and switching	CI 5.7 of IS/IEC 61727



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2566	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied and off grid Inverters and UPS	Loss of utility voltage	CI 5.1 of IS/IEC 61727
2567	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied and off grid Inverters and UPS	Normal frequency operating range	CI 4.5 of IS/IEC 61727
2568	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied and off grid Inverters and UPS	Normal voltage operating range	CI 4.2 of IS/IEC 61727
2569	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied and off grid Inverters and UPS	Over or under frequency	CI 5.2.2 of IS/IEC 61727
2570	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied and off grid Inverters and UPS	Over or under voltage	CI 5.2.1 of IS/IEC 61727
2571	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied and off grid Inverters and UPS	Power factor	CI 4.7 of IS/IEC 61727
2572	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied and off grid Inverters and UPS	Response to utility recovery	CI 5.4 of IS/IEC 61727
2573	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied and off grid Inverters and UPS	Short circuit protection	CI 5.6 of IS/IEC 61727
2574	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied and off grid Inverters and UPS	Verification of Earthing	CI 5.5 of IS/IEC 61727
2575	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied Inverters	Frequency ride through	Cl 4. (c) Subclause (2) Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations,
2576	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid Tied Inverters	Harmonics	Cl 5 Subclause (3) Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations,
2577	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied Inverters	High voltage ride through	Cl 4. (c) Subclause (7) Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations,
2578	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid tied inverters	Low voltage ride through test	Cl 4. (c) Subclause (3) Central Electricity Authority (Technical Standards for Connectivity to the Grid) (Amendment) Regulations,
2579	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid-tied I Off-grid inverters and UPS	Anti-Islanding Test	Cl. 4,5, and 6 of IS 16169:2019 IEC 62116
2580	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid-tied I Off-grid inverters and UPS	Efficiency test	Cl. 4,5,6, and 7 of IS/ IEC 61683: 1999 RA 2020
2581	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Grid-tied I Off-grid inverters and UPS	Disconnect time 1m sec to 100 seconds	Cl. 4,5, 6, and 7 of IS 16169:2019 IEC 62116



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2582	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	Calculation of the overall efficiency	Cl. 5 of EN 50530: 2010 +A1
2583	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	Calculation of the overall efficiency	Cl. 5 of IEC 62891
2584	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	Efficiency weighting factors	Annex D of EN 50530: 2010 +A1
2585	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	Efficiency weighting factors	Annex D of IEC 62891
2586	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	Harmonic Current Emission	IEC 61000-3-2
2587	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	Inverter efficiency	Annex F of EN 50530: 2010 +A1
2588	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	Models of current/voltage characteristic of PV generator	Annex C of EN 50530: 2010 +A1
2589	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	Models of current/voltage characteristic of PV generator	Annex C of IEC 62891
2590	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	MPPT and conversion efficiencies	Cl. 4 of EN 50530: 2010 +A1
2591	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	MPPT and conversion efficiencies	Cl. 4 of IEC 62891
2592	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	Requirements on the measuring apparatus	Annex A of EN 50530: 2010 +A1
2593	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	Requirements on the measuring apparatus	Annex A of IEC 62891
2594	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	Specification of the static MPPT and conversion efficiency in terms of normalized rated AC power	Annex E of EN 50530: 2010 +A1
2595	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	Specification of the static MPPT and conversion efficiency in terms of normalized rated AC power	Annex E of IEC 62891
2596	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	Test conditions for dynamic MPPT efficiency	Annex B of EN 50530: 2010 +A1
2597	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Unit	Test conditions for dynamic MPPT efficiency	Annex B of IEC 62891
2598	ELECTRICAL- POWER SUPPLIES & STABILIZERS	Power Conditioning Units	Harmonic Current Emission	IS 14700 (Part 3/Sec 2)
2599	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Array Insulation resistance test	IS 16221-2:2015 IEC 62109-2 Cl. 4.8
2600	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Chemical hazard	IS 16221-1:2016 IEC 62109-1 Cl.12



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ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Chemical hazard	IS 16221-2:2015 IEC 62109-2 Cl.12
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Electrical ratings tests	IS 16221-2:2015 IEC 62109-2 Cl. 4.7
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Electrical ratings tests	IS 16221-2:2015 IEC 62109-2 Cl. 4.7
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Electrical ratings tests	IS 16221-2:2015 IEC 62109-2 Cl. 4.7
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Electrical ratings tests	IS 16221-2:2015 IEC 62109-2 Cl. 4.7
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Environmental requirements and conditions	IS 16221-1:2016 IEC 62109-1 Cl. 6:
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Ingress protection	IS 16221-1:2016 IEC 62109-1 CI 6.3
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Measurement of clearances and creep age distances	IS 16221-1:2016 IEC 62109-1 Annex A
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Physical requirement	IS 16221-2:2015 IEC 62109-2 Cl. 13
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Physical requirements & Drop test	IS 16221-1:2016 IEC 62109-1 Cl. 13& 13.7.4
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Physical requirements & Drop test	IS 16221-1:2016 IEC 62109-1 Cl. 13&13.7.4
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Physical verification Marking and documentation	IS 16221-1:2016 IEC 62109-1 Cl. 5
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Pollution degree	IS 16221-1:2016 IEC 62109-1 CI 6.2
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Programmable equipment	IS 16221-1:2016 IEC 62109-1 Annex B
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Protection against electric shock	IS 16221-2:2015 IEC 62109-2 Cl. 7
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Protection against electric shock and energy hazards,	IS 16221-1:2016 IEC 62109-1 Cl. 7, 7.2, 7.3, 7.4, 7.5
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Protection against electric shock and energy hazards,	IS 16221-1:2016 IEC 62109-1 Cl. 7, 7.2, 7.3, 7.4, 7.5
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Protection against electric shock and energy hazards,	IS 16221-1:2016 IEC 62109-1 Cl. 7, 7.2, 7.3, 7.4, 7.5
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Protection against electric shock and energy hazards,	IS 16221-1:2016 IEC 62109-1 Cl. 7, 7.2, 7.3, 7.4, 7.5
ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Protection against fire hazard	IS 16221-2:2015 IEC 62109-2 Cl.9
	Discipline / Group LECTRICAL- POWER SUPPLIES & STABILIZERS LECTRICAL- POWER	Discipline / Group Materials or Products tested ELECTRICAL-POWER SUPPLIES & STABILIZERS Systems power conversion equipment (PCE) for use in photovoltaic systems ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic systems ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic systems ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic systems ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic systems ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic systems ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic systems ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic systems ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic systems ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic systems ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic systems ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic systems ELECTRICAL-POWER S	Discipline / Group Materials or Products tested Component, parameter or characteristic festel / Specific Test Performed ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic Chemical hazard ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic Electrical ratings tests ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic Electrical ratings tests ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic Electrical ratings tests ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic Electrical ratings tests ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic Electrical ratings tests ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic Ingress protection ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic Measurement of clearances and creep age distances SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in photovoltaic Physical requirements & Drop test ELECTRICAL-POWER SUPPLIES & STABILIZERS power conversion equipment (PCE) for use in ph





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2621	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Protection against fire hazard Short circuit and over current protection Physical check.	IS 16221-1:2016 IEC 62109-1 Cl. 9,9.1,9.2, 9.3
2622	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Protection against liquid hazard	IS 16221-1:2016 IEC 62109-1 Cl.11
2623	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Protection against liquid hazard	IS 16221-2:2015 IEC 62109-2 Cl.11
2624	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Protection against mechanical hazards	IS 16221-1:2016 IEC 62109-1 Cl. 8
2625	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Protection against mechanical hazards	IS 16221-2:2015 IEC 62109-2: Cl. 8
2626	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Protection against sonic pressure and sound level	IS 16221-1:2016 IEC 62109-1
2627	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Protection against sonic pressure and sound level	IS 16221-2:2015 IEC 62109-2 Cl.10
2628	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Residual current monitoring	IS 16221-2:2015 IEC 62109-2 Cl. 4.8
2629	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Temperature and Humidity(Room conditioning)	IS 16221-1:2016 IEC 62109-1 Cl 6.5
2630	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Testing in single fault condition	IS 16221-2:2015 IEC 62109-2 CL 4.4
2631	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Testing in single fault condition	IS 16221-2:2015 IEC 62109-2 CL 4.4
2632	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Testing in single fault condition, Back feed voltage protection, Electrical ratings tests	IS 16221-1:2016 IEC 62109-1 Cl. 4.4, 4.6 and 4.7
2633	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Testing in single fault condition, Back feed voltage protection, Electrical ratings tests	IS 16221-1:2016 IEC 62109-1 Cl. 4.4, 4.6 and 4.7
2634	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Testing in single fault condition, Back feed voltage protection, Electrical ratings tests	IS 16221-1:2016 IEC 62109-1 Cl. 4.4, 4.6 and 4.7
2635	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Testing in single fault condition, Back feed voltage protection, Electrical ratings tests	IS 16221-1:2016 IEC 62109-1 Cl. 4.4, 4.6 and 4.7
2636	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Testing in single fault condition, Back feed voltage protection, Electrical ratings tests	IS 16221-1:2016 IEC 62109-1 Cl. 4.4, 4.6 and 4.7



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2637	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Testing in single fault condition, Back feed voltage protection, Electrical ratings tests	IS 16221-1:2016 IEC 62109-1: Cl. 4.4, 4.6 and 4.7
2638	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Touch current	IS 16221-2:2015 IEC 62109-2 Cl. 4.8
2639	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Ultraviolet light conditioning test	IS 16221-1:2016 IEC 62109-1 Annex J
2640	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Verification of components, Software and firmware performing safety functions	IS 16221-1:2016 IEC 62109-1 Cl 14 & 15
2641	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Verification of Environmental requirements and conditions	IS 16221-1:2016 IEC 62109-1 Cl. 6
2642	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Verification of general conditions for testing	IS 16221-1:2016 IEC 62109-1 Cl.4.2 and 4.2.2, 4.2.2.1 a,b,c,d
2643	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Verification of general conditions for testing	IS 16221-1:2016 IEC 62109-1 Cl.4.2 and 4.2.2, 4.2.2.1 a,b,c,d
2644	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Verification of general conditions for testing	IS 16221-1:2016 IEC 62109-1 Cl.4.2 and 4.2.2, 4.2.2.1 a,b,c,d
2645	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Verification of general conditions for testing	IS 16221-1:2016 IEC 62109-1 Cl.4.2 and 4.2.2, 4.2.2.1 a,b,c,d
2646	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Verification of general conditions for testing	IS 16221-1:2016 IEC 62109-1Cl.4.2 and 4.2.2, 4.2.2.1 a,b,c,d
2647	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Verification of general Requirements	IS 16221-1:2016 IEC 62109-1 Cl.4.2 and 4.2.2, 4.2.2.1 a,b,c,d
2648	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Verification of Marking and documentation	IS 16221-2:2015 IEC 62109-2 CL. 5
2649	ELECTRICAL- POWER SUPPLIES & STABILIZERS	power conversion equipment (PCE) for use in photovoltaic systems	Verification of symbols to be used in equipment markings	IS 16221-1:2016 IEC 62109-1 Annex C
2650	ELECTRICAL- POWER SUPPLIES & STABILIZERS	SOLID STATE INVERTERS RUN FROM STORAGE BATTERIES	Climatic Tests	Cl 7.10. of IS 13314
2651	ELECTRICAL- POWER SUPPLIES & STABILIZERS	SOLID STATE INVERTERS RUN FROM STORAGE BATTERIES	Insulation Resistance Test	CI 7.7 of IS 13314
2652	ELECTRICAL- POWER SUPPLIES & STABILIZERS	SOLID STATE INVERTERS RUN FROM STORAGE BATTERIES	No load Test - Current	CI 7.8 of IS 13314:
2653	ELECTRICAL- POWER SUPPLIES & STABILIZERS	SOLID STATE INVERTERS RUN FROM STORAGE BATTERIES	Verification of Marking	Cl 6 of IS 13314
2654	ELECTRICAL- POWER SUPPLIES & STABILIZERS	SOLID STATE INVERTERS RUN FROM STORAGE BATTERIES	Visual Inspection	CI 7.5 of IS 13314
2655	ELECTRICAL- POWER SUPPLIES & STABILIZERS	SOLID STATE INVERTERS RUN FROM STORAGE BATTERIES	Harmonic Content	CI 7.11 of IS 13314



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2656	ELECTRICAL- POWER SUPPLIES & STABILIZERS	SOLID STATE INVERTERS RUN FROM STORAGE BATTERIES	High Voltage test	CI 7.6 of IS 13314
2657	ELECTRICAL- POWER SUPPLIES & STABILIZERS	SOLID STATE INVERTERS RUN FROM STORAGE BATTERIES	No load Test - Voltage	CI 7.8 of IS 13314
2658	ELECTRICAL- POWER SUPPLIES & STABILIZERS	SOLID STATE INVERTERS RUN FROM STORAGE BATTERIES	Output Test - Efficiency	CI 7.9 of IS 13314
2659	ELECTRICAL- POWER SUPPLIES & STABILIZERS	SOLID STATE INVERTERS RUN FROM STORAGE BATTERIES	Output Test - frequency	CI 7.9 of IS 13314
2660	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Alternative method for determining minimum clearances	Annex G of IEC 62040-1
2661	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Alternative method for determining minimum clearances	Annex G of IS 16242 (Part 1): RA 2019
2662	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Backfeed protection test	Annex I of IEC 62040-1
2663	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Backfeed protection test	Annex I of IS 16242 (Part 1): RA 2019
2664	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Components	Cl. 4.5 of IEC 62040-1
2665	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Components	Cl. 4.5 of IS 16242 (Part 1): RA 2019
2666	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Electrical conditions, performance and declared values	Cl. 5 of IEC 62040-3
2667	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Electrical conditions, performance and declared values	Cl. 5 of IS 16242 (Part 3): RA 2019
2668	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Electrical requirements and simulated abnormal conditions	Cl. 8 of IEC 62040-1
2669	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Electrical requirements and simulated abnormal conditions	Cl. 8 of IS 16242 (Part 1): RA 2019
2670	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Environmental Conditions	Cl. 4 of IEC 62040-2
2671	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Environmental Conditions	Cl. 4 of IS 16242 (Part 3): RA 2019
2672	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Fundamental design requirements	Cl. 5 of IEC 62040-1
2673	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Fundamental design requirements	Cl. 5 of IS 16242 (Part 1): RA 2019
2674	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Harmonic Emission	Cl. 5.3.2.6 of IEC 62040-2



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2675	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Harmonic Emission	Cl. 5.3.2.6 of IS 16242 (Part 2)
2676	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Input Mains failure test	Annex G of IEC 62040-3
2677	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Input Mains failure test	Annex G of IS 16242 (Part 3): RA 2019
2678	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	IP test	Annex H of IEC 62040-1
2679	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	IP test	Annex H of IS 16242 (Part 1): RA 2019
2680	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Markings and instructions	Cl. 4.7 of IEC 62040-1
2681	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Markings and instructions	Cl. 4.7 of IS 16242 (Part 1): RA 2019
2682	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Measurements of clearances and creepage distances	Annex F of IEC 62040-1
2683	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Measurements of clearances and creepage distances	Annex F of IS 16242 (Part 1): RA 2019
2684	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Measuring instruments for touch current tests	Annex D of IEC 62040-1
2685	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Measuring instruments for touch current tests	Annex D of IS 16242 (Part 1): RA 2019
2686	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Minimum and maximum cross- sections of copper conductors suitable for connection (see 6.3)	Annex N of IEC 62040-1
2687	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Minimum and maximum cross- sections of copper conductors suitable for connection (see 6.3)	Annex N of IS 16242 (Part 1): RA 2019
2688	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Non linear load test (RC)	Annex E of IEC 62040-3
2689	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Non linear load test (RC)	Annex E of IS 16242 (Part 3): RA 2019
2690	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Operating parameters for tests	Cl. 4.3 of IEC 62040-1
2691	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Operating parameters for tests	Cl. 4.3 of IS 16242 (Part 1): RA 2019
2692	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Physical requirements	Cl. 7 of IEC 62040-1
2693	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Physical requirements	Cl. 7 of IS 16242 (Part 1): RA 2019



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2694	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Power interfaces	Cl. 4.6 of IEC 62040-1
2695	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Power interfaces	Cl. 4.6 of IS 16242 (Part 1): RA 2019
2696	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Reference loads (up to 50kW)	Annex L of IEC 62040-1
2697	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Reference loads (up to 50kW)	Annex L of IS 16242 (Part 1): RA 2019
2698	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Surge Immunity	Annex D Cl. D.5 of IEC 62040-2
2699	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Surge Immunity	Annex D Cl. D.5 of IS 16242 (Part 2)
2700	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Table of electrochemical potentials	Annex J of IEC 62040-1
2701	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Table of electrochemical potentials	Annex J of IS 16242 (Part 1): RA 2019
2702	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Temperature rise of a winding	Annex E of IEC 62040-1
2703	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Temperature rise of a winding	Annex E of IS 16242 (Part 1): RA 2019
2704	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Thermal controls	Annex K of IEC 62040-1
2705	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Thermal controls	Annex K of IS 16242 (Part 1): RA 2019
2706	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Transformers Temperature Test	Annex C of IEC 62040-1
2707	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Transformers Temperature Test	Annex C of IS 16242 (Part 1): RA 2019
2708	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Type test	Cl. 4.2 of IEC 62040-1
2709	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Type test	Cl. 4.2 of IS 16242 (Part 1): RA 2019
2710	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	UPS Efficiency	Annex J of IEC 62040-3
2711	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	UPS Efficiency	Annex J of IS 16242 (Part 3): RA 2019
2712	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	UPS loading during tests	Cl. 4.4 of IEC 62040-1
2713	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	UPS loading during tests	Cl. 4.4 of IS 16242 (Part 1): RA 2019



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2714	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	UPS tests	Cl. 6 of IEC 62040-3
2715	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	UPS tests	Cl. 6 of IS 16242 (Part 3): RA 2019
2716	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Ventilation of battery compartments	Annex M of IEC 62040-1
2717	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Ventilation of battery compartments	Annex M of IS 16242 (Part 1): RA 2019
2718	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Wiring, connections and supply	Cl. 6 of IEC 62040-1
2719	ELECTRICAL- POWER SUPPLIES & STABILIZERS	UPS	Wiring, connections and supply	Cl. 6 of IS 16242 (Part 1): RA 2019
2720	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	Input Current/power	Cl 8 of IS 11346: 2002, RA
2721	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	Computation of Test Readings - Efficiency	Cl 6 of IS 11346: 2002, RA:
2722	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	Head Measurement, Measurement of Power Input	Cl 3.2.1.4, Cl 3.2.2 , Cl 3.2.3 , Cl 4, Cl 5 of IS 11346: 2002, RA
2723	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	input Current/power	Cl 8 of IS 11346: 2002, RA
2724	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	Input Current/power	Cl 8 of IS 11346: 2002, RA
2725	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	input Current/power	Cl 8 of IS 11346: 2002, RA
2726	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	Measurement of Rate of Flow, Head Measurement , Power Measurement	Cl.3.1.1, Cl.3.1.2, Cl.3.1.3 of IS 11346: 2002
2727	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	Observation, Measurement of Pressure (Head)	Cl 6 of IS 11346: 2002, RA
2728	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	OBSERVATIONS - Voltage Measurement	Cl 6 of IS 11346: 2002, RA
2729	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	OBSERVATIONS , Power factor measurement	Cl 6 of IS 11346: 2002, RA
2730	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	OBSERVATIONS , Power Measurement	Cl 6 of IS 11346: 2002, RA
2731	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	OBSERVATIONS, Current Measurement	Cl 6 of IS 11346: 2002, RA
2732	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	OBSERVATIONS, frequency	Cl 6 of IS 11346:
2733	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	OBSERVATIONS, Gauge distance correction factor, 2	Cl 6 of IS 11346: 2002, RA



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2734	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	OBSERVATIONS, Measurement of Flow	Cl 6 of IS 11346: 2002, RA
2735	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	OBSERVATIONS, Measurement of RPM	Cl 6 of IS 11346: 2002, RA
2736	ELECTRICAL- ROTATING ELECTRICAL MACHINES	AGRICULTURAL AND WATER SUPPLY PUMPS	Speed Measurement	Cl.3.1.4 , Cl 3.2.4 of IS 11346:2002 , RA
2737	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Dimension	IS 12615 Cl. No. 7 & 16.2.1
2738	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Duty & Rating	IS 12615:2018 Cl. 11
2739	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Electrical operating Conditions	IS 12615:2018 Cl. 4.2
2740	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Full load/determination of efficiency	Cl. 15 & 16.2.3 of IS 12615:2018 / IS 15999-2-1:2011(RA 2016) IEC 60034-2-1:2007 / IEC 60034-2-1
2741	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction motors	Full load/determination of Efficiency	Cl. 15 & 16.2.3 of IS 12615:2018 / IS 15999-2-1:2011(RA 2016) IEC 60034-2-1:2007 / IEC 60034-2-1
2742	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	High Voltage test	IS 12615:2018 Cl. No. 16.1.6
2743	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Insulation Resistance Test	IS 12615:2018 Cl. No. 16.1.1
2744	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Locked Rotor Test	IS 12615:2018 Cl. 16.1.4 & 16.2.2
2745	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Measurement of Resistance of stator windings	IS 12615:2018 Cl. 16.1.2
2746	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Methods of Cooling	IS 12615:2018 Cl. 6
2747	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Momentary Excess Torque	IS 12615:2018 Cl.12.2
2748	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Momentary excess torque for motors	Cl.9.4 of IS 15999-1:2021 IEC 60034-1
2749	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Momentary overload	IS 12615:2018 Cl. No. 16.2.5
2750	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	No load losses and current	CI.9.1 of IS 15999-1:2021 IEC 60034-1
2751	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	No load losses and current	CI.9.1 of IS 15999-1:2021 IEC 60034-1



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2752	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	No load test	IS 12615:2018 Cl. No. 16.1.3
2753	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	No Load Test	IS 12615:2018 Cl. No. 16.1.3
2754	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Occasional excess current	Cl.9.3 of IS 15999-1:2021 IEC 60034-1
2755	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Open circuit secondary induced voltage at standstill	Cl.9.1 of IS 15999-1:2021 IEC 60034-1
2756	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Over speed	Cl.9.7 of IS 15999-1:2021 IEC 60034-1
2757	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Over speed test	IS 12615:2018 Cl. No. 16.3.4
2758	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Performance Values	IS 12615:2018 Cl. 14
2759	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Pull up torque	Cl.9.5 of IS 15999-1:2021 IEC 60034-1
2760	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Pull up torque	IS 12615:2018 Cl.No. 12.3
2761	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Reduced Voltage Running up test at no-load	ls 12615:2018 Cl. 16.1.5
2762	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Resistance of winding	Cl.9.1 of IS 15999-1:2021 IEC 60034-1
2763	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Safe operating speed of cage induction motor	Cl.9.6 of IS 15999-1:2021 IEC 60034-1
2764	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Temperature Rise Rest	IS 12615:2018 Cl.13,16.2.4, &16.3.5
2765	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Test for Noise Levels for Motor	IS 12615:2018 Cl. 16.3.2
2766	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Thermal performance and tests	Cl.8 of IS 15999-1:2021 IEC 60034-1
2767	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Verification of Earthing	IS 12615 , Cl.No. 8
2768	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction motors	Verification of Marking	IS 12615 Cl. No. 9
2769	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Verification of Marking	IS 12615:2018 Cl. 18
2770	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Vibration	IS 12615:2018 Cl. No. 16.3.1
2771	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Visual inspection - type of Enclosures	IS 12615:2018 Cl. 5



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2772	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Voltage & Frequency Variation	IS 12615:2018 Cl. 4.3
2773	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Induction Motors	Withstand voltage test	Cl.9.1 and Cl.9.2 of IS 15999-1:2021 IEC 60034-1
2774	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Flow Measurement	CI 12.4 of IS 9079
2775	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Hydrostatic Pressure Test	Cl 12.6 of IS 9079
2776	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Power measurement	Cl 12.5 of IS 9079
2777	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	CLASSIFICATION and NOMENCLATURE	Cl.5 and Cl. 6 of IS 9079:
2778	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Discharge Rate Range (I/s)	Cl. 9.1.2 of IS 9079:
2779	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Efficiency	Cl. 9.4 of IS 9079:
2780	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Efficiency	Cl. 9.4 of IS 9079:
2781	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Efficiency	Cl. 9.4 of IS 9079:
2782	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Head Measurement	Cl 12.3 of IS 9079
2783	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	HIGH-VOLTAGE TEST	Cl 11.3 of IS 9079:
2784	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Insulation Resistance Test	Cl 11.2 of IS 9079:
2785	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Laboratory Tests, Head Measurement, Flow Measurement , current and power measurement, Hydrastatic Pressure test	Cl 12.2 , Cl 12.3 , Cl 12.4, Cl 12.5, Cl 12.6 of IS 9079:
2786	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Locked Rotor Test	Cl 11.5 of IS 9079:
2787	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Monometric Suction Lift measurement	Cl.4.1 of IS 9079:
2788	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Overall Efficiency by Power measurement	Cl. 13.4 of IS 9079::
2789	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Overall Efficiency by Power measurement	Cl. 13.4 of IS 9079::
2790	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Performance values of single phase motors	Cl 11.1.6, Cl 11.1.7, Cl 11.1.8 of IS 9079:



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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
2791	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Rated Speeds	Cl 10.8.3 of IS 9079:
2792	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Rated voltage and rated frequency	Cl 10.8.1 of IS 9079:
2793	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Rated voltage and rated frequency	Cl 10.8.1 of IS 9079:
2794	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Rated voltage and rated frequency	Cl 10.8.2.1 of IS 9079:
2795	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Rated voltage and rated frequency	Cl 10.8.2.1 of IS 9079:2018
2796	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Ratings , TEST FOR ELECTRICAL PERFORMANCE ON MOTOR FOR MONOSET	Cl 10.8.2.2 , Cl 11.1.1, Cl 11.1.3 , Cl 11.1.4 ,Cl 11.1.5 of IS 9079:
2797	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Temperature rise test at reduced voltage	CI 11.4.2 of IS 9079:
2798	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Temperature Rise Test	Cl 11.4.1 , Cl 11.4.1.1, Cl 11.4.1.2 of IS 9079:
2799	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Terminal Marking and Direction of Rotation , Prime Mover	Cl. 10.6 , CL 7 of IS 9079:
2800	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	TEST FOR ELECTRICAL PERFORMANCE ON MOTOR FOR MONOSET	Cl 11.1.1 of IS 9079:
2801	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Verification of classification , nomenclature	Cl.5 and Cl. 6 of IS 9079
2802	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Verification of Declared performance value, value of efficiency, requirement for pump set	Cl 11.1.6, Cl 11.1.7, Cl 11.1.8 of IS 9079:
2803	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Verification of Discharge Rate Range (I/s)	Cl. 9.1.2 of IS 9079:
2804	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Verification of General Requirement for Casing , Impeller , Shaft , Balancing	Cl. 10, Cl 10.1 , Cl 10.2 , Cl 10.3, Cl.10.4 of IS 9079:
2805	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Verification of GENERAL REQUIREMENTS , Casing , Impeller , Shaft , Balancing	Cl. 10, Cl 10.1 , Cl 10.2 , Cl 10.3, Cl.10.4 of IS 9079:
2806	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Verification of Marking	Cl. 10.6 , CL 7 of IS 9079:
2807	ELECTRICAL- ROTATING	Monoset pumps for clear, cold water for agricultural and water supply purposes	Verification of Provision for Earthing	Cl. 10.5 of IS 9079:
2808	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Verification of ratings of single phase motor	Cl 10.8.1 of IS 9079



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2809	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Verification of ratings of three phase motor	Cl 10.8.2 of IS 9079:
2810	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Verification of Ratings	Cl 10.8.2 of IS 9079:
2811	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Verification of Single Phase Motors	Cl 10.8.1 of IS 9079
2812	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Verification of type of motors	Cl. 10.8.2 , Cl 10.8.2.3 of IS 9079:
2813	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Voltage and Frequency Variation	Cl. 9.2 of IS 9079:
2814	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Monoset pumps for clear, cold water for agricultural and water supply purposes	Voltage and Frequency Variation	Cl. 9.4 of IS 9079:
2815	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Breakaway (Starting) Torque Test	Cl 14.7 of IS 14220
2816	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Current	Cl 16.3 of IS 14220:
2817	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	High Voltage Test	Cl 14.4 of IS 14220:
2818	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Insulation Resistance Test	Cl 14.3 of IS 14220:
2819	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Leakage Current Test	Cl 14.5 of IS 14220:
2820	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Measurement of discharge Flow	Cl 16.1 of IS 14220: :
2821	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Measurement of discharge Head	Cl 16.1.4 of IS 14220:
2822	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Motor designed for operation at voltages other than 415 V, Ratings , Type of Motor.	Cl 13.2.2, Cl 13.2.3 ,Cl 13.2.4 of IS 14220:
2823	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Overall Efficiency	16.2, of IS 14220
2824	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Overall efficiency	Cl 16.1 of IS 14220: :
2825	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Rated Speed	Cl 14.8 of IS 14220:
2826	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Rated Voltage and Rated Frequency	Cl 13.1.1 of IS 14220:
2827	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Rated Voltage and Rated Frequency	Cl 13.1.1 of IS 14220:
2828	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Rated Voltage and Rated Frequency	Cl 13.2.1 of IS 14220:



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2829	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Speed	Cl 13.3 of IS 14220:
2830	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Temperature Rise Test	Cl 14.6 of IS 14220:
2831	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Verification of guarantee and tolerances on open well submersible pump set performance	Cl 16 of IS 14220
2832	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Verification of open well submersible motor – Rated voltage and rated frequency ,Motor designed for operation at voltages other than 240 V	Cl 13.1.2, Cl 13.1.3 of IS 14220
2833	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Open well submersible pump sets	Visual Verification of information (DIMENSIONS AND TOLERANCES, CABLE)	Cl 11, CL 12, CL 13, Cl 13.1 of IS 14220:
2834	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Breakaway (starting) torque	Cl 14.10.1.g of IS 14220 : 2018
2835	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Breakaway (Starting) Torque Test	CI 14.7 of IS 14220:
2836	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Current measurement	Cl 16.3 of IS 14220:
2837	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	DIMENSIONS AND TOLERANCES, CABLE, OPEN WELL SUBMERSIBLE MOTOR, Single Phase Motors	Cl 11, CL 12, CL 13, Cl 13.1 of IS 14220:
2838	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Flow measurement	Cl 15.4 of IS 14220
2839	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Head measurement; Hydrostatic pressure test	CI 15.3 and 15.5 of IS 14220
2840	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	High voltage test	Cl 14.9.1.b and Cl 14.10.1.b of IS 14220
2841	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	High Voltage Test	Cl 14.4 of IS 14220:
2842	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Insulation resistance	Cl 14.9.1.a and Cl 14.10.1.a of IS 14220
2843	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Insulation Resistance Test	Cl 14.3 of IS 14220:
2844	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Leakage current test	Cl 14.10.1.h of IS 14220
2845	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Leakage Current Test Upto 50mA	CI 14.5 of IS 14220:



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2846	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Locked rotor test	Cl 14.9.1.d and Cl 14.10.1.f of IS 14220
2847	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Measurement of discharge Flow	Cl 16.1 of IS 14220: :
2848	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Measurement of discharge Head	Cl 16.1.4 of IS 14220:
2849	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Measurement of stator resistance	Cl 14.10.1.c of IS 14220
2850	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	No load test	Cl 14.9.1.c and Cl 14.10.1.d of IS 14220
2851	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Overall Efficiency	16.2, of IS 14220
2852	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Overall efficiency	Cl 16.1 of IS 14220: :
2853	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Rated Speed	CI 14.8 of IS 14220:
2854	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Rated Voltage and Rated Frequency	Cl 13.1.1 of IS 14220:
2855	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Rated Voltage and Rated Frequency	Cl 13.1.1 of IS 14220:
2856	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Rated Voltage and Rated Frequency	CI 13.2.1 of IS 14220:
2857	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Reduced voltage test	Cl 14.9.1.e and Cl 14.10.1.e of IS 14220
2858	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Routine Test, TEST FOR HYDRAULIC PERFORMANCE ON PUMP FOR OPEN WELL SUBMERSIBLE PUMPSET, GUARANTEE AND TOLERANCES ON OPENWELL SUBMERSIBLE PUMPSET PERFORMANCE	Cl 14.9 , Cl 14.10, Cl 15 , Cl 15.2, Cl 15.3, Cl 15.4 , Cl 15.5 , Cl 16 of IS 14220:
2859	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Speed	Cl 13.3 of IS 14220:
2860	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Temperature rise test at rated voltage and at reduced voltage	Cl 14.10.1.j and 14.10.1.k of IS 14220
2861	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Temperature Rise Test	Cl 14.6 of IS 14220:
2862	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Verification of marking	Cl 18 of IS 14220
2863	ELECTRICAL- ROTATING ELECTRICAL MACHINES	OPENWELL SUBMERSIBLE PUMPSETS	Verification of ratings of Open well submersible motor	Cl 13.1.2, Cl 13.1.3, Cl 13.2, of IS 14220:



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2864	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Photovoltaic pumping systems	H-Q characterisation , Measurement of Head	Cl 5.3.3 of IEC 62253 :
2865	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Photovoltaic pumping systems	H-Q characteristics , Voltage	Cl 5.3.3 of IEC 62253 :
2866	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Photovoltaic pumping systems	H-Q characteristics, Current	CI 5.3.3 of IEC 62253 :
2867	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Photovoltaic pumping systems	H-Q characteristics, Flow	CI 5.3.3 of IEC 62253 :
2868	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Photovoltaic pumping systems	H-Q characteristics, Power	CI 5.3.3 of IEC 62253 :
2869	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Photovoltaic pumping systems	H-Q characteristics, Power factor	CI 5.3.3 of IEC 62253 :
2870	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Photovoltaic pumping systems	H-Q characteristics, Speed	CI 5.3.3 of IEC 62253 :
2871	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Photovoltaic pumping systems	P Q Characterisation - Efficiency	CI 5.3.3 of IEC 62253 :
2872	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Photovoltaic pumping systems	P-Q Characteristic , Measurement of Flow	CI 5.3.2 of IEC 62253 :
2873	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Photovoltaic pumping systems	P-Q Charecteristics	CI 5.3.2 of IEC 62253 :
2874	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Photovoltaic pumping systems	P-Q Charecteristics	CI 5.3.2 of IEC 62253 :
2875	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Photovoltaic pumping systems	Start-up power measurements , Design qualification for a pumping system	Cl 5.3.4 , CL 6 of IEC 62253 :
2876	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Photovoltaic pumping systems	System characteristics , Dimensioning of hydraulic equipment , Documentation	Cl 6.3, Cl 6.4, Cl 6.5 of IEC 62253 :
2877	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Cable Sizeing	IS 17018-1 (Cl. 4.6.5)
2878	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Computation of test readings	Cl. 10 of Annexure B of Circular No. F. No. 41/3/2018-SPV Division dated 22.03.2023 by MNRE / Cl. 10 of IS 17429:2020
2879	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Constructional Features	IS 17018-1 (Clause No:4)
2880	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	DC Switch	IS 17018-1(Clause No: 4.6.4)
2881	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Deration Factor	IS 17018-1 (Clause No: 7.5)



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Laboratory Name :	CENTRAL POWER RESEARCH INSTITU BENGALURU, KARNATAKA, INDIA	JTE, PROF SIR C V RAI	MAN ROAD,
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5452	Page No	243 of 333
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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	
2882	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Measurement of Head	Cl. 6.2 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 6.2 of IS 17429:2020	
2883	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Measurement of Rate of Flow	Cl. 6.3 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 6.3 of IS 17429:2020	
2884	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Minimum Water Output	IS 17018-1 (Clause No: 5.2 & 5.3)	
2885	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Per Day Water Flow Test of Submersible Pumps	Cl. 8.1 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 8.1 of IS 17429:2020	
2886	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Per Day Water Flow Test of Surface Pumps	Cl. 8.2 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 8.2 of IS 17429:2020	
2887	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Performance testing - Hot & Cold Profiles	Cl. 5.2 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 5.2 of IS 17429:2020	
2888	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Performance testing - Hot & Cold Profiles	Cl. 5.2 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 5.2 of IS 17429:2020	
2889	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Performance testing - Hot & Cold Profiles	Cl. 5.2 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 5.2 of IS 17429:2020	
2890	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Performance testing - Hot & Cold Profiles	Cl. 5.2 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 5.2 of IS 17429:2020	
2891	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Performance testing - Outdoor Condition using sun radiation	Cl. 5.3 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 5.3 of IS 17429:2020	



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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
2892	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Performance testing - Outdoor Condition using sun radiation	Cl. 5.3 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 5.3 of IS 17429:2020
2893	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Performance testing - Outdoor Condition using sun radiation	Cl. 5.3 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 5.3 of IS 17429:2020
2894	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Performance testing - Outdoor Condition using sun radiation	Cl. 5.3 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 5.3 of IS 17429:2020
2895	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Performance testing - Outdoor Condition using sun radiation	Cl. 5.3 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 5.3 of IS 17429:2020
2896	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Performance testing - Simulator Methods	Cl. 5.1 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 5.1 of IS 17429:2020
2897	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Protection test	IS 17018-1 (Clause No: 4.6.3)
2898	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Protections test	Cl.5 of Annexure B of Circular No. F. No. 41/3/2018-SPV Division dated 22.03.2023 by MNRE / Cl. 5 of IS 17429:2020
2899	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	PV Module Mismatch	IS 17018-1 (Clause No: 4.3.8)
2900	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	PV Module Wattage Tolerance	IS 17018-1 (Clause No: 4.3.9)
2901	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Rated Motor Voltage	IS 17018-1 (Clause No: 7.3)
2902	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Remote Monitoring System Verification	Cl. 5.4 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 5.4 of IS 17429:2020
2903	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Shut Off Head Of The Pump set	IS 17018-1 (Clause No: 5.2 & 5.3)



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2904	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Solar Radiation Measurement	Cl. 6.1 of Annexure B of Circular No. F. No. 41/3/2018- SPV Division dated 22.03.2023 by MNRE / Cl. 6 of IS 17429:2020
2905	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Standard Efficiency & Fill Factor	IS 17018-1 (Clause No: 4.3.4)
2906	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Tests For Hydraulic And Electrical Performance Of Pumpset	IS 17018-1 (Clause No: 6)
2907	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	The Solar Photo Voltaic (PV) Converter/Controller Ip54 Protection	IS 17018-1(Clause No: 4.6.2)
2908	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	The Solar Photo Voltaic (PV) Converter/Controller Maximum Power Point Tracker (MPPT) Water Discharge	IS 17018-1(Clause No: 4.6.1)
2909	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	The Solar Photo Voltaic (PV) Converter/Controller Overall Efficiency	IS 17018-1 (Clause No: 7.4.1)
2910	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	The Solar Photo Voltaic (PV) Converter/Controller Overall Efficiency	IS 17018-1 (Clause No: 7.4.1)
2911	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	The Solar Photo Voltaic (PV) Converter/Controller Overall Efficiency	IS 17018-1(Clause No: 7.4.1)
2912	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Verication of IEC 61215 Certificate for PV Module	IS 17018-1 (Clause No: 4.3.2)
2913	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Verification for Provision For Earthing	IS 17018-1 (Clause No: 4.7)
2914	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Verification of Marking	IS 17018-1(Clause No: 8.1.2)
2915	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Verification of Marking	IS 17018-1 (Clause No: 8)
2916	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Verification of Marking	IS 17018-1 (Clause No: 8.1)
2917	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping System	Verification of Terminal Box	IS 17018-1 (Clause No: 5.2.6.6)
2918	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	Verification of Material Of Construction	IS 17018-1 (Clause No: 4.6.5)
2919	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SOLAR PHOTOVOLTAIC WATER PUMPING SYSTEMS	Cable Sizeing	IS 17018-1 (Clause No: 4.6.5)



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ISO/IEC 17025:2017				
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2920	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	Constructional Features	IS 17018-1 (Clause No: 4)
2921	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Current	Drinking water Pumping system (2014-15) : Clause II of MNRE Solar Photovoltaic
2922	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Current	Micro Pumping Systems (2016-17), Clause II & ANNEXURE - II of MNRE Ref.No.41/06/2015-16/PVSE Dt.Jan
2923	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	Deration Factor	IS 17018-1 (Clause No: 7.5)
2924	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Frequency	Drinking water Pumping system (2014-15) : Clause II of MNRE Solar Photovoltaic
2925	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Frequency	Micro Pumping Systems (2016-17), Clause II & ANNEXURE - II of MNRE Ref No.41/06/2015-16/PVSE Dt.Jan
2926	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	Minimum Water Output	IS 17018-1 (Clause No: 5.2 & 5.3)
2927	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Module mounting structure	Drinking water Pumping system (2014-15) Annexure - II of MNRE Solar Photovoltaic
2928	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Module mounting structure	Micro Pumping Systems (2016-17), ANNEXURE - II of MNRE Ref No. 41/06/2015-16/PVSE Dt.Jan
2929	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Power	Drinking water Pumping system (2014-15) : Clause II of MNRE Solar Photovoltaic
2930	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Power	Micro Pumping Systems (2016-17), Clause II & ANNEXURE - II of MNRE Ref No. 41/06/2015-16/PVSE Dt.Jan
2931	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Protection test	Drinking water Pumping system (2014-15) : Clause VI of MNRE Solar Photovoltaic
2932	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	Protection test	IS 17018-1 (Clause No: 7.4.4)
2933	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Protection tests	Micro Pumping Systems (2016-17), Clause VI of MNRE Ref No. 41/06/2015-16/PVSE Dt.Jan



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2934	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	PV Array capacity	Drinking water Pumping system (2014-15) : Clause III & Annexure - II of MNRE Solar Photovoltaic
2935	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	PV Array capacity	Micro Pumping Systems (2016-17), Clause III & ANNEXURE - II of MNRE Ref No. 41/06/2015-16/PVSE Dt.Jan
2936	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	PV Module Mismatch	IS 17018-1 (Clause No: 5.2.6.9)
2937	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	PV Module Wattage Tolerance	IS 17018-1 (Clause No: 5.2.6.10)
2938	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	Rated Motor Voltage	IS 17018-1 (Clause No: 7.3)
2939	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Shut off head	Drinking water Pumping system (2014-15) Annexure - II of MNRE Solar Photovoltaic
2940	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Shut off head	Micro Pumping Systems (2016-17), ANNEXURE - II of MNRE Ref No. 41/06/2015-16/PVSE Dt.Jan
2941	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	Shut Off Head Of The Pump set	IS 17018-1 (Clause No: 7.1.2)
2942	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	Standard Efficiency & Fill Factor	IS 17018-1 (Clause No: 5.2.6.5)
2943	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	Tests For Hydraulic And Electrical Performance Of Pumpset - whole day performance	IS 17018-1 (Clause No: 7.1)
2944	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	The Solar Photo Voltaic (PV) Converter/Controller Ip54 Protection	IS 17018-1(Clause No: 7.4.3)
2945	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	The Solar Photo Voltaic (PV) Converter/Controller Maximum Power Point Tracker (MPPT) Water Discharge	IS 17018-1(Clause No: 7.4.2)
2946	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	The Solar Photo Voltaic (PV) Converter/Controller Overall Efficiency	IS 17018-1 (Clause No: 7.4.1)
2947	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	The Solar Photo Voltaic (PV) Converter/Controller Overall Efficiency	IS 17018-1 (Clause No: 7.4.1)



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2948	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	The Solar Photo Voltaic (PV) Converter/Controller Overall Efficiency	IS 17018-1(Clause No: 7.4.1)
2949	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Total Water Output	Drinking water Pumping system (2014-15) : Clause II & Annexure - II of MNRE Solar Photovoltaic
2950	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Total water Output	Micro Pumping Systems (2016-17), Clause II & ANNEXURE - II of MNRE Ref No. 41/06/2015-16/PVSE Dt.Jan
2951	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	Verification for Provision For Earthing	IS 17018-1 (Clause No: 8)
2952	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	Verification of Marking	IS 17018-1 (Clause No: 13.1)
2953	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	Verification of Marking	IS 17018-1(Clause No: 13.2)
2954	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	Verification of Guarantees And Tolerances On Solar Photo Voltaic Water Pumping Systems Performance	IS 17018-1 (Clause No: 7)
2955	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	Verification of Marking	IS 17018-1 (Clause No: 13)
2956	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar photovoltaic water pumping systems	Verification of Terminal Box	IS 17018-1 (Clause No: 5.2.6.6)
2957	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Voltage	Drinking water Pumping system (2014-15) : Clause II of MNRE Solar Photovoltaic
2958	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Solar Photovoltaic Water Pumping Systems	Voltage	Micro Pumping Systems (2016-17), Clause II & ANNEXURE - II of MNRE Ref No. 41/06/2015-16/PVSE Dt.Jan
2959	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible pump sets	Submersible Motors , Single Phase Motors , "Motor designed for operation at voltages other than 240 V"	Cl 8.10, Cl 8.10.1, Cl 8.10.1.3 of IS 8034 :
2960	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible pump sets	Breakaway (Starting)Torque Test	Cl 9.7 of IS 8034 :
2961	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible pump sets	Current	Cl 11.3 of IS 8034 :
2962	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible pump sets	High Voltage Test	Cl 9.3 of IS 8034 :
2963	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible pump sets	Hydrostatic Pressure Test	Cl 10.3 of IS 8034



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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
2964	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible pump sets	Hydrostatic Pressure Test Upto 250m head	Cl 10.3 of IS 8034 :
2965	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible pump sets	Insulation Resistance Test	Cl 9.2 of IS 8034 :
2966	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible pump sets	Leakage Current Test	Cl 9.4 of IS 8034
2967	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Submersible pump sets	Leakage Current Test, Upto 50mA	Cl 9.4 of IS 8034 :
2968	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Breakaway (starting)torque	Cl 9.10.g of IS 8034
2969	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Breakaway (Starting)Torque Test	Cl 9.7 of IS 8034 :
2970	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Current	Cl 11.3 of IS 8034 :
2971	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Flow measurement	Cl 10.2.2 of IS 8034
2972	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Head measurement	Cl 10.2.1 of IS 8034
2973	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	High voltage test	Cl 9.10.b of IS 8034
2974	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	High voltage test (Routine test)	Cl 9.9.b of IS 8034
2975	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	High Voltage Test	Cl 9.3 of IS 8034 :
2976	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Hydrostatic Pressure Test	Cl 10.3 of IS 8034
2977	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Hydrostatic Pressure Test	Cl 10.3 of IS 8034 :
2978	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Insulation resistance test	Cl 9.10.a of IS 8034
2979	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Insulation resistance test (Routine test)	Cl 9.9.a of IS 8034
2980	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Insulation Resistance Test	Cl 9.2 of IS 8034 :
2981	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Leakage current test	Cl 9.10.h of IS 8034
2982	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Leakage Current Test	Cl 9.4 of IS 8034
2983	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Leakage Current Test, Upto 50mA	Cl 9.4 of IS 8034 :



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2984	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Locked rotor test	Cl 9.10.f of IS 8034
2985	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Locked rotor test (Routine test)	Cl 9.9.d of IS 8034
2986	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Measurement of stator resistance	Cl 9.10.c of IS 8034
2987	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Momentary overload test	Cl 9.10.m of IS 8034
2988	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	No load test	Cl 9.10.d of IS 8034
2989	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	No load test (Routine test)	Cl 9.9.c of IS 8034
2990	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Overall Efficiency	Cl 11.5 of IS 8034
2991	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Overall Efficiency	Cl 11.5 of IS 8034
2992	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Overall Efficiency - Power measurement	Cl 11.5 of IS 8034
2993	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Rated speed	Cl 8.10.1.6 of IS 8034 :
2994	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Rated speed	Cl 8.10.2.5 of IS 8034 :
2995	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Rated voltage and rated frequency	Cl 8.10.1.1 and Cl 8.10.1.2 of IS 8034 :
2996	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Rated voltage and rated frequency	Cl 8.10.2.1 of IS 8034 :
2997	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Rated voltage and rated frequency	Cl 8.10.2.1 of IS 8034 :
2998	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Ratings ,Types of motors	Cl 8.10.1.4 , Cl 8.10.1.5 of IS 8034 :
2999	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Reduced voltage test	Cl 9.10.e of IS 8034
3000	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Routine Test, TEST FOR HYDRAULIC PERFORMANCE ON PUMP FOR SUBMERSIBLE PUMPSET,	Cl 9.9, Cl 9.10, Cl 10.1 , Cl 10.2 of IS 8034 :
3001	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Speed	Cl 9.8 of IS 8034 :
3002	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Temperature rise test at rated voltage	Cl 9.10.j of IS 8034



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3003	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Temperature rise test at reduced voltage	Cl 9.10.k of IS 8034
3004	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Temperature Rise Test	Cl 9.5 of IS 8034 :
3005	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	TESTS FOR ELECTRICAL PERFORMANCE ON SUBMERSIBLE MOTOR , General ,	Cl 9, Cl 9.1 and Cl 9.1.1, Cl 9.1.3, Cl 9.1.4, Cl 9.1.5, Cl 9.1.6, Cl 9.1.7, Cl 9.1.8 & Cl 9.1.9 of IS 8034 :
3006	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Three Phase Motors , "Motor designed for operation at voltages other than 415 V" , Ratings, Types of motors	Cl 8.10.2 , Cl 8.10.2.2 , Cl 8.10.2.3 ,Cl 8.10.2.4 of IS 8034 : 2018
3007	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Verification of general requirements - Motor designed for operation at voltages other than 240 V	Cl 8.10.1.3 of IS 8034
3008	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Verification of general requirements - Motor designed for operation at voltages other than 415 V; Ratings; Type of motors	Cl 8.10.2.2 , Cl 8.10.2.3 ,Cl 8.10.2.4 of IS 8034 : 2018
3009	ELECTRICAL- ROTATING ELECTRICAL MACHINES	SUBMERSIBLE PUMPSETS	Verification of tests applicable for Electrical performance submersible motor	Cl 9, Cl 9.1 and Cl 9.1.1, Cl 9.1.3, Cl 9.1.4, Cl 9.1.5, Cl 9.1.6, Cl 9.1.7, Cl 9.1.8 & Cl 9.1.9 of IS 8034 :
3010	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Universal Solar Pump Controller	Application description on screen and selection of applications	Annexure C of Circular No. F. No. 41/3/2018-SPV Division dated 22.03.2023 by MNRE
3011	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Universal Solar Pump Controller	Application Specific output (Application specific software)	Annexure C of Circular No. F. No. 41/3/2018-SPV Division dated 22.03.2023 by MNRE
3012	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Universal Solar Pump Controller	Input PV voltage range	Annexure C of Circular No. F. No. 41/3/2018-SPV Division dated 22.03.2023 by MNRE
3013	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Universal Solar Pump Controller	Measurement of Output voltage waveform	Annexure C of Circular No. F. No. 41/3/2018-SPV Division dated 22.03.2023 by MNRE
3014	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Universal Solar Pump Controller	Mode operation of applications	Annexure C of Circular No. F. No. 41/3/2018-SPV Division dated 22.03.2023 by MNRE
3015	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Universal Solar Pump Controller	Operation at different output from array with all four load types	Annexure C of Circular No. F. No. 41/3/2018-SPV Division dated 22.03.2023 by MNRE



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3016	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Universal Solar Pump Controller	Ripple and distortion at output on full load	Annexure C of Circular No. F. No. 41/3/2018-SPV Division dated 22.03.2023 by MNRE
3017	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Universal Solar Pump Controller	Testing as a controller to operate motorized farm equipment	Annexure C of Circular No. F. No. 41/3/2018-SPV Division dated 22.03.2023 by MNRE
3018	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Universal Solar Pump Controller	Testing as a controller to operate motorized farm equipment	Annexure C of Circular No. F. No. 41/3/2018-SPV Division dated 22.03.2023 by MNRE
3019	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Universal Solar Pump Controller	Testing as an offgrid solar pump controller	Annexure C of Circular No. F. No. 41/3/2018-SPV Division dated 22.03.2023 by MNRE
3020	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Universal Solar Pump Controller	Total circuit protection observation	Annexure C of Circular No. F. No. 41/3/2018-SPV Division dated 22.03.2023 by MNRE
3021	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Universal Solar Pump Controller	USPC Efficiency measurement	Annexure C of Circular No. F. No. 41/3/2018-SPV Division dated 22.03.2023 by MNRE
3022	ELECTRICAL- ROTATING ELECTRICAL MACHINES	Universal Solar Pump Controller	Verification of Technical Specification for Stand Alone Application	Annexure C of Circular No. F. No. 41/3/2018-SPV Division dated 22.03.2023 by MNRE
3023	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment & Synchrophasor	Measurement compliance test and evaluation - Reference and test conditions	IEC/IEEE 60255-118-1-2018
3024	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment & Synchrophasor	Measurement reporting latency compliance	IEEE C37.118.1-2011 / IEEE C37.118.1a-2014
3025	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Neutral Grounding DevicesNeutral Grounding Devices, Plugs, Socket-Outlets and Couplers for Industrial Purposes, Cable glands for electrical installations, Grounding and Bonding Equipment, Control circuit devices & switching elements	Short time current test	IS/IEC 60947-1:2020, IS/IEC 60947-5-1:2016, IEC 60947-5-1:2016, IEC 60947-5-1:2016, IEC 60947-5-2:2019, IEC 60947-5-3: 2013, IEC 60309-1:2021, IS/IEC 60309-1:2002 RA:2017, IEC 62444:2010, UL 467:2022, IEEE C57.32 :2015
3026	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Plugs, Socket-Outlets and Couplers for Industrial Purposes & Terminal blocks for copper conductors	Dielectric test	IEC 60947-7-1: 2009, IEC 60309-1:2021, IS/IEC 60309-1:2002 RA:2017, IEC 60947-7-2: 2009


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3027	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Plugs, Socket-Outlets and Couplers for Industrial Purposes, Control circuit devices & switching elements	Rated making and breaking capacity test	IS/IEC 60947-1:2020, IS/IEC 60947-5-1:2016, IEC 60947-5.1:2016, IEC 60947-5-1:2016, IEC 60947-5-2:2019, IEC 60947-5-3: 2013, IEC 60309-1:2021, IS/IEC 60309-1:2002 RA:2017
3028	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Plugs, Socket-Outlets and Couplers for Industrial Purposes,Control circuit devices & switching elements	Temperature rise	IS/IEC 60947-1:2020, IS/IEC 60947-5-1:2016, IEC 60947-5-1:2020, IEC 60947-5-1:2016, IEC 60947-5-2:2019, IEC 60947-5-3: 2013, IEC 60309-1:2021, IS/IEC 60309-1:2002 RA:2017
3029	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Functional requirements for Thermal Electrical Relays 1.2)Determination of steady- state errors related to the operating current value 1.3)Determination of steady- state errors related to the characteristic quantity and the operate time 1.3.1)Accuracy determination of the cold curve 1.3.2)Accuracy determination of the hot curves	IEC 60255-149-2013
3030	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	AC or DC dielectric voltage test / Dielectric test/ Dielectric voltage test on Electrical Timer Relays	IEC 60255-27- 2023 / IS 5834 (Part III)-1981 Reaffirmed 2019 Amendment 1994
3031	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Functional requirements for Over/under current protection 1.0) Determination of steady state errors relating to the characteristic quantity 1.1) Accuracy of setting (start) value 1.2) Reset ratio determination 2.0) Determination of the steady state errors related to the start and operate time 3.0) Determination of steady state error related to the reset time 4.0) Determination of transient performance 5.0) Response to time varying values of the characteristic quantity for dependent time relav	IEC 60255-151-2009 / IS/IEC: 60255-151-2009



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3032	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Impulse voltage test / Impulse voltage test on Electrical Timer Relay	IEC 60255-27:2023 / IS/IEC 60255-Part 27:2013 / IS 5834 (Part III)-1981 Reaffirmed 2019 Amendment 1994
3033	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Measurement of Insulation resistance/Insulation Resistance on electrical timer relay	IS/IEC 60255-Part 27-2013 / IEC 60255-27- 2013 / IS 5834 (part III)-1981 Reaffirmed 2019 Amendment 1994
3034	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment :	Binary output performance(mechanical and static)	IEC 60255-1:2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3035	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Contact current	IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3036	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Contact current	IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3037	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Contact performance	IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3038	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Contact performance	IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3039	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Contact performance	IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3040	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Frequency protection 1.2)Determination of steady state errors related to the characteristic quantity 1.2.1)Accuracy of the start value 1.2.2)Reset hysteresis or reset ratio determination 1.3)Determination of the start time 1.3.2)Under/over frequency 1.3.3)Rate of change of frequency 1.4)Determination of the accuracy of the operate time delay 1.4.3)Report of the operate time-delay acc	IEC 60255-181-2019



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3041	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Frequency protection 1.5)Determination of disengaging time 1.5.2)Under/over frequency 1.5.3)Rate of change of frequency 1.6)Performance with harmonics 1.6.2)Accuracy of the under/over frequency start value in the presence of harmonics 1.6.3)Accuracy of the ROCOF start value in the presence of harmonics	IEC 60255-181-2019
3042	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment & Synchrophasor	Measurement compliance test and evaluation - Steady-state compliance a.Signal frequency b.Voltage signal magnitude c.Current signal magnitude d.Harmonic Distortion (Single Harmonic) e.Out-of-band interference	IEC/IEEE 60255-118-1-2018
3043	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment & Synchrophasor	Measurement compliance test and evaluation Reference and test conditions	IEC/IEEE 60255-118-1-2018
3044	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment & Synchrophasor	Measurement compliance test and evaluation -Dynamic compliance Measurement Bandwidth	IEC/IEEE 60255-118-1-2018
3045	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment & Synchrophasor	Measurement compliance test and evaluation -PMU reporting latency compliance	IEC/IEEE 60255-118-1-2018
3046	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection Equipment:	Functional requirements for Over/under Voltage protection 1.0)Determination of steady state errors relating to the characteristic quantity 1.1)Accuracy of setting(start)value 1.2)Reset ratio determination 2.0)Determination of the steady state errors related to the start and operate time 3.0)Determination of steady state error related to the reset time 4.0)Determination of transient performance)Transient overreach 4.2)Overshoot time for undervoltage protection 5.0)Response to time varying values	IEC 60255-127- 2010 / IS/IEC 60255-127-2010



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3047	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment:	Functional requirements for Thermal Electrical Relays 1.2)Determination of steady- state errors related to the operating current value 1.3)Determination of steady- state errors related to the characteristic quantity and the operate time 1.3.1)Accuracy determination of the cold curve 1.3.2)Accuracy determination of the hot curves	IEC 60255-149-2013 / IS/IEC 60255-149-2013
3048	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	11 kV Horn gap fuse DO fuse, HG fuses & expulsion fuses	Temperature rise test	IS:9385-2:2018 IEC 60282-2:2008 IS:9385-1 & 2
3049	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	A.C Metal enclosed Switchgear & Control-gear	Short Time current test	IEC 62271-203: 2022 IS/IEC 62271-203 : 2022 IEC 62271 - 201:2014 IS/IEC 62271-1: 2017 IEC 62271-1: 2017+ AMD1:2021 ANSI/IEEE : C37.20.2/2015
3050	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	A.C Metal enclosed Switchgear & Control-gear	Short Time current test	IEC 62271-203: 2022 IS/IEC 62271-203 : 2022 IEC 62271 - 201:2014 IS/IEC 62271-1: 2017 IEC 62271-1: 2017+ AMD1:2021 ANSI/IEEE : C37.20.2/2015
3051	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	A.C. Circuit Breakers for Railway applications	Temperature Rise Test	IEC 60077-4:2019
3052	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	A.C. Circuit Breakers for Railway applications	Temperature Rise Test	IEC 60077-4:2019
3053	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	AB Switches and switch disconnectors	Dielectric test	IS/IEC 62271-103:2011 RA:2015 / IEC 62271-103: 2021
3054	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	AB Switches and switch disconnectors	Mechanical Endurance	IS/IEC 62271-103:2011 RA:2015 / IEC 62271-103: 2021
3055	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	AB Switches and switch disconnectors	Resistance measurement	IS/IEC 62271-103:2011 RA:2015 / IEC 62271-103: 2021
3056	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	AB Switches and switch disconnectors	Short time current tests	IS/IEC 62271-103:2011 RA:2015 / IEC 62271-103: 2021



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3057	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	AB Switches and switch disconnectors	Temperature rise test	IS/IEC 62271-103:2011 RA:2015 / IEC 62271-103: 2021
3058	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	AC disconnec- tors and Earth Switches	Short Time current test Induced current switching test	IS 9921 part 1,2,3,4, 5 2007, IEC 62271-102
3059	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	AC disconnec- tors and Earth Switches	Short Time current test Induced current switching test	IS 9921 part 1,2,3,4,5 2007, IEC 62271-102
3060	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	AC insulation enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	Short time current test	IEC 62271-201 :
3061	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	All types of Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Dry Heat (High Temperature) Test	IEC 60068-2-2:2007 IS 9000, Part 3, Section 1 to 5:1977 IEC 60571
3062	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	All types of Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Cold (Low Temeperature) Test	IEC 60068-2-1 2007, IS 9000 part 2 sec 1 to 4 2016, IEC 60571
3063	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	All types of Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Cold (Low Temeperature) Test	IEC 60068-2-1:2007 IS 9000, Part 2, Section 1 to 4:1977 (Reaffirmed 2016) IEC 60571
3064	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	All types of Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Cold (Low Temeperature) Test	IEC 60068-2-1:2007 IS 9000, Part 2, Section 1 to 4:1977 (Reaffirmed 2016) IEC 60571:
3065	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating Current Contactors, Contactor-Based Controllers and Motorstarters	Electrical endurance tests	IS/IEC 62271-106 : 2021, IEC 62271-106:2021
3066	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating Current Contactors, Contactor-Based Controllers and Motorstarters	Making and breaking test	IS/IEC 62271-106 : 2021, IEC 62271-106:2021
3067	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating Current Contactors, Contactor-Based Controllers and Motorstarters	Overload current withstand test	IS/IEC 62271-106 : 2021, IEC 62271-106:2021
3068	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating Current Contactors, Contactor-Based Controllers and Motorstarters	Short-circuit current making and breaking test	IS/IEC 62271-106 : 2021, IEC 62271-106:2021
3069	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating Current Contactors, Contactor-Based Controllers and Motorstarters	Verification of coordination with SCPDs	IS/IEC 62271-106 : 2021, IEC 62271-106:2021



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3070	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating Current Contactors, Contactor-Based Controllers and Motorstarters	Verification of operating limits and characteristics of overload relays	IS/IEC 62271-106 : 2021, IEC 62271-106:2021
3071	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Arrester Disconnector Switches Disconnectors Switch disconector & fuse combination units Contactors & motor starters Control circuit devices & switching elements Composite units of air break switches and rewireable type fuses for voltages not exceeding 650 V a.c.	Rated making and breaking capacity test	IS/IEC 60947 (Part 1: 2007 RA:2012& Part 3 :2003 RA:2013) IEC 60947 (Part 1:2014-09 & Part 3
3072	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Automatic circuit recloser	Short time current test	IEC 62271-111: 2019
3073	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Basic Short circuit test duties and short line fault tests - Direct test facility - Synthetic test facility	High Voltage Circuit Breakers	IS/IEC 62271-100: 2008 (Reaffirmed 2017) IEC 62271-100:2017 IEC 62271 - 101:2017
3074	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus-transfer current switching tests on disconnectors	Resistance measurement	IS IEC 62271-102:2018 / IEC 62271-102: 2022
3075	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit breakers Switches Disconnectors Switch disconnector & fuse combination units Contactors & motor starters Control circuit devices & switching elements	Temperature rise	IS IEC 60947 part 1 :2020 / IS IEC 60947 Part 2 -2016 / IS IEC 60947 part 3 : 2020 / IS IEC 60947 Part 4-1:2018 / IEC 60947 part 1 :2020 / IEC 60947 part 2 :2016 Amd 1:2019 / IEC 60947-3:2020 / IEC 60947-4-1:2023 / IEC 60947-4-2:2020
3076	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit breakers	Short circuit making & breaking capacity	IS/IEC 60947-1:2020, IS/IEC 60947-2:2016, IEC 60947-1:2020, IEC 60947-2:2016 Amd: 2019
3077	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit breakers	Dielectric-properties, Routine & Sampling tests	IS/IEC 60947-1:2020, IS/IEC 60947-2:2016, IEC 60947-1:2020, IEC 60947-2:2016 Amd: 2019
3078	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit breakers	Electrical durability Electrical & Mechanical endurance	IS/IEC 60947-1:2020, IS/IEC 60947-2:2016, IEC 60947-1:2020, IEC 60947-2:2016 Amd: 2019
3079	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit breakers	Making and breaking capacities Tripping limits & Characteristics Operational performance	IS/IEC 60947-1:2020, IS/IEC 60947-2:2016, IEC 60947-1:2020, IEC 60947-2:2016 Amd: 2019
3080	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit breakers	Overload performance	IS/IEC 60947-1:2020, IS/IEC 60947-2:2016, IEC 60947-1:2020, IEC 60947-2:2016 Amd: 2019



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3081	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit breakers	Short time current test	IS/IEC 60947-1:2020, IS/IEC 60947-2:2016, IEC 60947-1:2020, IEC 60947-2:2016 Amd: 2019
3082	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit breakers	Temperature rise	IS/IEC 60947-1:2020, IS/IEC 60947-2:2016, IEC 60947-1:2020, IEC 60947-2:2016 Amd: 2019
3083	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Composite units of air break switches and rewireable type fuses for voltages not exceeding 650 V a.c. AC Miniature circuit breaker boards for voltage not exceeding 1 kV Distribution pillars for voltages not exceeding 1000 V AC and 1200 V DC Enclosed distribution fuse boards and cutouts for voltages not exceeding 1000 V AC and 1200 V DC LV Rewirable fuses	Short circuit breaking capacity	IS 10027 : 2018 IS 13032 : 1991 (RA 2016) IS 5039: 1983 (RA 2016) IS 2675:1983 (RA 2016) IS:2086 : 1993 (RA :
3084	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Composite units of air break switches and rewireable type fuses for voltages not exceeding 650 V a.c. AC Miniature circuit breaker boards for voltage not exceeding 1 kV Distribution pillars for voltages not exceeding 1000 V AC and 1200 V DC Enclosed distribution fuse boards and cutouts for voltages not exceeding 1000 V AC and 1200 V DC LV Rewirable fuses	Temperature rise Power acceptance	IS 10027 : 2018 IS 13032 : 1991 (RA 2016) IS 5039: 1983 (RA 2016) IS 2675:1983 (RA 2016) IS:2086 : 1993 (RA :
3085	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Composite units of air break switches and rewireable type fuses for voltages not exceeding 650 V a.c.	Electrical durability Electrical & Mechanical endurance	IS 10027: 2018
3086	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Composite units of air break switches and rewireable type fuses for voltages not exceeding 650 V a.c.	Rated fused short circuit current test & Conditional Short Circuit Test	IS 10027: 2018
3087	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Composite units of air break switches and rewireable type fuses for voltages not exceeding 650 V a.c.	Rated making and breaking capacity test & Conditional Short Circuit Test	IS 10027: 2018
3088	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Composite units of air break switches and rewireable type fuses for voltages not exceeding 650 V a.c.	Temperature rise	IS 10027: 2018
3089	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Contactors & motor starters	Electrical durability Electrical & Mechanical endurance	IS/IEC 60947-1:2007 RA:2017 / IEC 60947-4-2-2020 / IS/IEC 60947-4-2-2020 / IS/IEC 60947-2:2016 / IEC 60947-1:2020 / IEC 60947-2:2016 Amd: 2019: 2019
3090	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Contactors & motor starters	Dielectric-properties, Routine & Sampling tests	IS/IEC 60947-1:2020, IS/IEC 60947-4-1:2012 RA:2018, IEC 60947-1:2020, IEC 60947-4-1: 2023



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3091	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Contactors & motor starters	Electrical durability Electrical & Mechanical endurance	IS/IEC 60947-1:2020, IS/IEC 60947-4-1:2012 RA:2018, IEC 60947-1:2020, IEC 60947-4-1: 2023
3092	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Contactors & motor starters	Making and breaking capacities Tripping limits & Characteristics Operational performance	IS/IEC 60947-1:2020, IS/IEC 60947-4-1:2012 RA:2018, IEC 60947-1:2020, IEC 60947-4-1: 2023
3093	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Contactors & motor starters	Rated making and breaking capacity test	IS/IEC 60947-1:2020, IS/IEC 60947-4-1:2012 RA:2018, IEC 60947-1:2020, IEC 60947-4-1: 2023
3094	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Contactors & motor starters	Short circuit making & breaking capacity	IS/IEC 60947-1:2020, IS/IEC 60947-4-1:2012 RA:2018, IEC 60947-1:2020, IEC 60947-4-1: 2023
3095	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Contactors & motor starters	Short time current test	IS/IEC 60947-1:2020, IS/IEC 60947-4-1:2012 RA:2018, IEC 60947-1:2020, IEC 60947-4-1: 2023
3096	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Contactors & motor starters	Temperature rise	IS/IEC 60947-1:2020, IS/IEC 60947-4-1:2012 RA:2018, IEC 60947-1:2020, IEC 60947-4-1: 2023
3097	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Control circuit devices & switching	Rated making and breaking capacity test	IS/IEC 60947-1:2007 RA:2017 / IEC 60947-4-2-2020 / IS/IEC 60947-4-2-2020 / IS/IEC 60947-2:2016 / IEC 60947-1:2020 / IEC 60947-2:2016 Amd: 2019: 2019
3098	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Control circuit devices & switching elements	Dielectric-properties, Routine & Sampling tests	IS/IEC 60947-1:2020, IS/IEC 60947-5-1:2016, IEC 60947-1:2020, IEC 60947-5-1:2016, IEC 60947-5-2:2019, IEC 60947-5-3: 2013
3099	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Control circuit devices & switching elements	Electrical durability Electrical & Mechanical endurance	IS/IEC 60947-1:2020, IS/IEC 60947-5-1:2016, IEC 60947-1:2020, IEC 60947-5-1:2016, IEC 60947-5-2:2019, IEC 60947-5-3: 2013



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3100	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Control circuit devices & switching elements	Impulse voltage test	IS/IEC 60947-1:2020, IS/IEC 60947-5-1:2016, IEC 60947-1:2020, IEC 60947-5-1:2016, IEC 60947-5-2:2019, IEC 60947-5-3: 2013
3101	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Control circuit devices & switching elements	Making and breaking capacities Tripping limits & Characteristics Operational performance	IS/IEC 60947-1:2020, IS/IEC 60947-5-1:2016, IEC 60947-1:2020, IEC 60947-5-1:2016, IEC 60947-5-2:2019, IEC 60947-5-3: 2013
3102	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Control circuit devices & switching elements	Short circuit making & breaking capacity	IS/IEC 60947-1:2020, IS/IEC 60947-5-1:2016, IEC 60947-1:2020, IEC 60947-5-1:2016, IEC 60947-5-2:2019, IEC 60947-5-3: 2013
3103	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Current Transformers Power Transformers Distribu-tion Trans-formers, Traction transformers, Potential transformers	Short Time current test Ability to withstand short circuit & all routine tests	IS 2705 part 1-4 2007, IEC 6189-2 2012, IS 3156 2007, IEC 61869-5 2011, IEC 61869-3
3104	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical Accessories-circuit breakers for over current protection for household and similar installations Circuit breakers for equipment(CBE)	Dielectric properties	IS/IEC 60898-1:2015, IS/IEC 60898-2:2016, IEC 60898-1:2015 Amd-1:2019, IEC 60898-2:2016, IEC 60934 : 2019
3105	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical Accessories-circuit breakers for over current protection for household and similar installations Circuit breakers for equipment(CBE)	Short circuit capacity	IS/IEC 60898-1:2015, IS/IEC 60898-2:2016, IEC 60898-1:2015 Amd-1:2019, IEC 60898-2:2016, IEC 60934 : 2019
3106	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical Accessories-circuit breakers for over current protection for household and similar installations Circuit breakers for equipment(CBE)	Temperature rise	IS/IEC 60898-1:2015, IS/IEC 60898-2:2016, IEC 60898-1:2015 Amd-1:2019, IEC 60898-2:2016, IEC 60934 : 2019
3107	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical Accessories-circuit breakers for over current protection for household and similar installations Circuit breakers for equipment(CBE)	Tripping characteristics Mechanical and electrical endurance	IS/IEC 60898-1:2015, IS/IEC 60898-2:2016, IEC 60898-1:2015 Amd-1:2019, IEC 60898-2:2016, IEC 60934 : 2019
3108	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical Accessories-circuit breakers for over current protection for household and similar installations Circuit breakers for equipment(CBE)	Non-interchangeability Indelibility of marking Reliability of screws, current carrying parts and connections	IS/IEC 60898-1:2015, IS/IEC 60898-2:2016, IEC 60898-1:2015 Amd-1:2019, IEC 60898-2:2016, IEC 60934 : 2019



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3109	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical Accessories-circuit breakers for over current protection for household and similar installations Circuit breakers for equipment(CBE)	Reliability of terminals for external conductors	IS/IEC 60898-1:2015, IS/IEC 60898-2:2016, IEC 60898-1:2015 Amd-1:2019, IEC 60898-2:2016, IEC 60934 : 2019
3110	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical Accessories-circuit breakers for over current protection for household and similar installations Circuit breakers for equipment(CBE)	Protection against electric shock	IS/IEC 60898-1:2015, IS/IEC 60898-2:2016, IEC 60898-1:2015 Amd-1:2019, IEC 60898-2:2016, IEC 60934 : 2019
3111	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical Accessories-circuit breakers for over current protection for household and similar installations Circuit breakers for equipment(CBE)	Resistance to abnormal heat and to fire	IS/IEC 60898-1:2015, IS/IEC 60898-2:2016, IEC 60898-1:2015 Amd-1:2019, IEC 60898-2:2016, IEC 60934 : 2019
3112	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical Accessories-circuit breakers for over current protection for household and similar installations Circuit breakers for equipment(CBE)	Resistance to heat	IS/IEC 60898-1:2015, IS/IEC 60898-2:2016, IEC 60898-1:2015 Amd-1:2019, IEC 60898-2:2016, IEC 60934 : 2019
3113	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical Accessories-circuit breakers for over current protection for household and similar installations Circuit breakers for equipment(CBE)	Resistance to mechanical shock and impact	IS/IEC 60898-1:2015, IS/IEC 60898-2:2016, IEC 60898-1:2015 Amd-1:2019, IEC 60898-2:2016, IEC 60934 : 2019
3114	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical Accessories-circuit breakers for over current protection for household and similar installations Circuit breakers for equipment(CBE)	Resistance to rusting	IS/IEC 60898-1:2015, IS/IEC 60898-2:2016, IEC 60898-1:2015 Amd-1:2019, IEC 60898-2:2016, IEC 60934 : 2019
3115	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical Accessories-circuit breakers for over current protection for household and similar installations Circuit breakers for equipment(CBE)	28- Day Test	IS/IEC 60898-1:2015, IS/IEC 60898-2:2016, IEC 60898-1:2015 Amd-1:2019, IEC 60898-2:2016, IEC 60934 : 2019
3116	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical Accessories-circuit breakers for over current protection for household and similar installations Circuit breakers for equipment(CBE)	Clearance & creepage distances	IS/IEC 60898-1:2015, IS/IEC 60898-2:2016, IEC 60898-1:2015 Amd-1:2019, IEC 60898-2:2016, IEC 60934 : 2019
3117	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical Accessories-circuit breakers for over current protection for household and similar installations Circuit breakers for equipment(CBE)	Marking General Mechanism	IS/IEC 60898-1:2015, IS/IEC 60898-2:2016, IEC 60898-1:2015 Amd-1:2019, IEC 60898-2:2016, IEC 60934 : 2019



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3118	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical Timer Relay for Industrial Purpose	Verification of Limits of Operation Verification of Resetting time Setting Accuracy test Repeat Accuracy test	IS 5834 (Part III)-1981 Reaffirmed 2019 Amendment 1994
3119	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical timer relays for Industrial purpose	Verification of Limits of Operation Verification of Resetting time Setting Accuracy test Repeat Accuracy test	IS : 5834 (Part III) -1981 Reaffirmed 2019 Amendment 1994
3120	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Cold (Low Temeperature) Test	IEC 60068-2-1:2007 IS 9000, Part 2, Section 1 to 4:1977 (Reaffirmed 2016) IEC 60571:
3121	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Cold (Low Temperature) Test	IEC 60068-2-1:2007 IS 9000, Part 2, Section 1 to 4:1977 (Reaffirmed 2016) IEC 60571:
3122	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Composite Temperature & Humidity Test	IEC 60068-2-30:2005 IS 9000, Part 5, Section 1 & 2:1981 (Reaffirmed 2016) IEC 60068-2-78:2012 IS 9000, Part 4:2008 (Reaffirmed 2015) IEC 60571
3123	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Composite Temperature & Humidity Test	IEC 60068-2-30:2005 IS 9000, Part 5, Section 1 & 2:1981 (Reaffirmed 2016) IEC 60068-2-78:2012 IS 9000, Part 4:2008 (Reaffirmed 2015) IEC 60571:
3124	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Composite Temperature & Humidity Test	IEC 60068-2-30:2005 IS 9000, Part 5, Section 1 & 2:1981 (Reaffirmed 2016) IEC 60068-2-78:2012 IS 9000, Part 4:2008 (Reaffirmed 2015) IEC 60571: 2012
3125	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Composite Temperature & Humidity Test	IEC 60068-2-30:2005 IS 9000, Part 5, Section 1 & 2:1981 (Reaffirmed 2016) IEC 60068-2-78:2012 IS 9000, Part 4:2008 (Reaffirmed 2015) IEC 60571: 2012
3126	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Dry Heat (High Temperature) Test	IEC 60068-2-2:2007 IS 9000, Part 3, Section 1 to 5:1977 IEC 60571
3127	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Dry Heat (High Temperature) Test	IEC 60068-2-2:2007 IS 9000, Part 3, Section 1 to 5:1977 IEC 60571



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3128	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Dry Heat (High Temperature) Test	IEC 60068-2-2:2007 IS 9000, Part 3, Section 1 to 5:1977 IEC 60571
3129	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Dry Heat (High Temperature) Test	IEC 60068-2-2:2007 IS 9000, Part 3, Section 1 to 5:1977 IEC 60571
3130	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Temperature Cycling Test	IEC 60068-2-14:2009 IS : 9000, Part 6:1978 (Reaffirmed 2016)
3131	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Temperature Cycling Test	IEC 60068-2-14:2009 IS : 9000, Part 6:1978 (Reaffirmed 2016)
3132	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Temperature Cycling Test	IEC 60068-2-14:2009 IS : 9000, Part 6:1978 (Reaffirmed 2016)
3133	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Relays and other articles	Temperature Cycling Test	IEC 60068-2-14:2009 IS : 9000, Part 6:1978 (Reaffirmed 2016)
3134	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Rolling Stock equipment for Railway applications and other articles	Mechanical Shock Test & Bump Test	IEC 60068-2-27:2008 IS 9000, Part 7, Section 1: 2006, (Reaffirmed 2016) IS 9000, Part 7, Section 2: 1979, (Reaffirmed 2016) IEC 61373:2010
3135	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Rolling Stock equipment for Railway applications and other articles	Mechanical Shock Test & Bump Test	IEC 60068-2-27:2008 IS 9000, Part 7, Section 1: 2006, (Reaffirmed 2016) IS 9000, Part 7, Section 2: 1979, (Reaffirmed 2016) IEC 61373:2010
3136	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Rolling Stock equipment for Railway applications and other articles	Random Vibration Test	IEC 60068-2-64:2008 IEC 61373:2010
3137	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Rolling Stock equipment for Railway applications and other articles	Random Vibration Test	IEC 60068-2-64:2008 IEC 61373:2010
3138	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Rolling Stock equipment for Railway applications and other articles	Sine Vibration Test	IEC 60068-2-6:2007 JSS 55555:2012, Test No.28 IS 9000, Part 8:1981 (Reaffirmed 2015)
3139	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electrical, Electronic Instruments, Equipment, components, PCB's, MCB's, ACB's Rack mounted Equipment, Instrument/ Equipment panels, Rolling Stock equipment for Railway applications and other articles	Sine Vibration Test	IEC 60068-2-6:2007 JSS 55555:2012, Test No.28 IS 9000, Part 8:1981 (Reaffirmed 2015)



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3140	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electromechanical Elementary Relays	1. Timing Test 2. Relay coil properties 2.1 Coil resistance 3. Contact-circuit resistance (or voltage drop)	IEC 61810 - 7
3141	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electromechanical elementary relays	Functional tests	IEC 61810-7-2006
3142	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Electromechanical elementary relays	Functional tests	IEC 61810-7-2006
3143	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	End Products & Materials	Glow wire flammability test	IS 11000 (Part 2/Sec 1): 2018 IEC 60695-2-10-2013 IEC 60695-2-11-2014RLV IS 11000 (Part 2/Sec 1): 2018 IEC 60695-2-12-
3144	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Fault passage indicator	Short time current test	IEEE 495: 2007
3145	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Fault passage indicator	Tripping Current & Time Current Test	IEEE 495: 2007
3146	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V Switchgear & Controlgear Part 1: Common specifications High Voltage ac circuit breaker Alternating Current disconnectors and earthing switches AC Switch fuse combination A.C. Metal enclosed Switchgear controlgear for rated voltage above 1kV and upto and including 52kV	Resistance Measurement	IEC 62271-1 :2017 Amd 1: 2021 / IEC 62271-100: 2021 / IEC 62271-102 :2022 / IEC 62271-103:2021 / IEC 62271-200:2021 / IEC 62271-105:2021 / IEC 62271-111:2019 / IEC 62271-202:2022 / IEC 62271-203:2022
3147	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V Switchgear & Controlgear Part 1: Common specifications High Voltage ac circuit breaker Alternating Current disconnectors and earthing switches AC Switch fuse combination A.C. Metal enclosed Switchgear controlgear for rated voltage above 1kV and upto and including 52kV	Temperature Rise Test / Continuous Current Test	IEC 62271-1: 2017 Amd 1: 2021 / IEC 62271-100: 2021 / IEC 62271-102 :2022 / IEC 62271-103:2021 / IEC 62271-200:2021 / IEC 62271-105:2021 / IEC 62271-111:2019 / IEC 62271-202:2022 / IEC 62271-203:2022
3148	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V Switchgear & Controlgear Part 1: Common specifications High Voltage ac circuit breaker Alternating Current disconnectors and earthing switches AC Switch fuse combination A.C. Metal enclosed Switchgear controlgear for rated voltage above 1kV and upto and including 52kV	Temperature Rise Test / Continuous Current Test	IS IEC 62271-1: 2007 (RA 2018) / IS IEC 62271-100: 2021 / IS IEC 62271-102: 2018 / IS IEC 62271-105: 2021 / IS IEC 62271-111: 2019 / IS IEC 62271-200 :2021 RA 2018 / IS IEC 62271-202 :2014 / IS IEC 62271-203:2022



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3149	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V Switchgear & Controlgear Part 1: Common specifications High Voltage ac circuit breaker Alternating Current disconnectors and earthing switches AC Switch fuse combination A.C. Metal enclosed Switchgear controlgear for rated voltage above 1kV and upto and including 52kV	Resistance Measurement	IS IEC 62271-1 :2007 (RA 2018) / IS IEC 62271-100 :2021 / IS IEC 62271-102 :2018 / IS IEC 62271-105 :2021 / IS IEC 62271-111 :2019 / IS IEC 62271-200 :2021 / IS IEC 62271-202 :2014 / IS IEC 62271-203:2022
3150	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High voltage alternating current circuit breakers	Short time current test	IEC 62271-100 : 2012-09 IS 13118: 1991 (RA
3151	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Circuit Breakers	Basic Short circuit test duties and short line fault tests - Direct test facility - Synthetic test facility	IS/IEC 62271-100: 2008 (Reaffirmed 2017), IEC 62271-100-2017 ,IEC 62271 - 101
3152	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Fuses	Breaking capacity tests	IS 9385 Part-1/2/3/4/5 1979/80/80/83/83 (Reaffirmed 2007) IEC 60282 - 1& 2
3153	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Fuses	Breaking capacity tests	IS 9385 Part-1: 2018 / IS 9385 Part-2: 2018 / IS 9385 Part-3: 1980 (Reaffirmed 2018) / IS 9385 Part-4: 1983 (Reaffirmed 2018) / IS 9385 Part-5: 1983 (Reaffirmed 2021) / IEC 60282-1: 2020 / IEC 60282-2: 2008 / IEC 60282-4
3154	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Fuses	Breaking capacity tests	IS 9385 Part-1: 2018 / IS 9385 Part-2: 2018 / IS 9385 Part-3: 1980 (Reaffirmed 2018) / IS 9385 Part-4: 1983 (Reaffirmed 2018) / IS 9385 Part-5: 1983 (Reaffirmed 2021) / IEC 60282-1: 2020 / IEC 60282-2: 2008 / IEC 60282-4
3155	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage fuses - Current limiting fuses High voltage fuses - Expulsion and similar fuses	Temperature Rise Test	IEC 60282-1 :2020 / IEC 60282-2 :2008
3156	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switch Boards Terminal Boxes M.V metal enclosed switchgear	Arcing due to Internal faults	IEC 62271-12011-08, ANSI/ IEEE C37.20.7.2001, IEC-61330
3157	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switch Boards Terminal Boxes M.V metal enclosed switchgear & GIS	Arcing due to Internal faults	IEC 62271-1: 2017+ AMD1:2021 IS/IEC 62271-1: 2007 (Reaffirmed 2018) IEC-62271-203:2022 IS/IEC 62271-203 : 2022 IS/IEC 62271-200 : 2021 ANSI/IEEE C37.20.7-2017 / IEC-62271-200



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3158	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Line/Cable charging current switching tests	IS/IEC 62271-103: 2021 IEC 62271 –103
3159	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Line/Cable charging current switching tests	IS/IEC 62271-103: 2021 IEC 62271 –103
3160	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Line/Cable charging current switching tests	IS/IEC 62271-103: 2021 IEC 62271 –103
3161	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Line/Cable charging current switching tests	IS/IEC 62271-103: 2021 IEC 62271 –103
3162	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Short circuit making test	IS/IEC 62271-103: 2021 / IS/IEC 62271-102 : 2022 / IEC 62271-102: 2022 / IEC 62271 -103
3163	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Short circuit making test	IS/IEC 62271-103: 2021 / IS/IEC 62271-102 : 2022 / IEC 62271-102: 2022 / IEC 62271 -103
3164	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Short circuit making test	IS/IEC 62271-103: 2021 / IS/IEC 62271-102 : 2022 / IEC 62271-102: 2022 / IEC 62271 -103
3165	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Short circuit making test	IS/IEC 62271-103: 2021 / IS/IEC 62271-102 : 2022 / IEC 62271-102: 2022 / IEC 62271 -103
3166	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Short circuit making test	IS/IEC 62271-103: 2021 / IS/IEC 62271-102 : 2022 / IEC 62271-102: 2022 / IEC 62271 -103
3167	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Short time current test	IS/IEC 62271-103: 2021 / IEC 62271 -103: 2021 / ANSI/IEEE C37:30.1: 2011 / ANSI/IEEE C37:30.1a: 2017 / ANSI/IEEE C37:30.5
3168	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Short time current test	IS/IEC 62271-103: 2021 / IEC 62271 -103: 2021 / ANSI/IEEE C37:30.1: 2011 / ANSI/IEEE C37:30.1a: 2017 / ANSI/IEEE C37:30.5
3169	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Short time current test	IS 9920-Part1-2002 (Reaffirmed 2007) IEC 62271 -103: 2011 ANSI/IEEE C37:30 (1997),C37:32(1996),C37:34



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3170	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Short time current test	IS/IEC 62271-103: 2021 / IEC 62271 -103: 2021 / ANSI/IEEE C37:30.1: 2011 / ANSI/IEEE C37:30.1a: 2017 / ANSI/IEEE C37:30.5
3171	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Short time current test	IS/IEC 62271-103: 2021 / IEC 62271 -103: 2021 / ANSI/IEEE C37:30.1: 2011 / ANSI/IEEE C37:30.1a: 2017 / ANSI/IEEE C37:30.5
3172	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Single capacitor bank current switching tests	IS/IEC 62271-103: 2021 IEC 62271 -103
3173	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Single capacitor bank current switching tests	IS/IEC 62271-103: 2021 IEC 62271 –103
3174	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Single capacitor bank current switching tests	IS/IEC 62271-103: 2021 IEC 62271 -103
3175	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Single capacitor bank current switching tests	IS/IEC 62271-103: 2021 IEC 62271 -103
3176	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Single capacitor bank current switching tests	IS/IEC 62271-103: 2021 IEC 62271 -103
3177	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Single capacitor bank current switching tests	IS/IEC 62271-103: 2021 IEC 62271 -103
3178	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Single capacitor bank current switching tests	IS/IEC 62271-103: 2021 IEC 62271 -103
3179	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Single capacitor bank current switching tests	IS/IEC 62271-103: 2021 IEC 62271 -103
3180	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Single capacitor bank current switching tests	IS/IEC 62271-103: 2021 IEC 62271 –103
3181	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Single capacitor bank current switching tests	IS/IEC 62271-103: 2021 IEC 62271 -103
3182	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Transformer OFF Load current breaking/motor switching current breaking tests	IS/IEC 62271-103: 2021 IEC 62271 -103



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3183	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Transformer OFF Load current breaking/motor switching current breaking tests	IS/IEC 62271-103: 2021 IEC 62271 -103
3184	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Switches	Transformer OFF Load current breaking/motor switching current breaking tests	IS 9920-Part1-2002 (Reaffirmed 2007) IEC 62271 -103
3185	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High-voltage switchgear and controlgear	Auxiliary contact rated continuous current, Auxiliary contact rated short time withstand current, Auxiliary contact breaking capacity	IEC 62271-1:2017 Amd-1:2021 / IS/IEC 62271-1:2007 RA: 2018
3186	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High-voltage switchgear and controlgear	Mechanical impact	IEC 62271-1:2017 Amd-1:2021, IS/IEC 62271-1:2007 RA:2018, IEC 62271-100:2021, IS/IEC 62271-100:2021, IS/IEC 62271-200:2021, IS/IEC 62271-201:2014, IEC 62271-201:EC 62271-1:2017 Amd-1:2021, IS/IEC 62271-100:2021, IS/IEC 62271-100:2021, IS/IEC 62271-200:2021, IS/IEC 62271-200:2021, IS/IEC 62271-200:2021, IS/IEC 62271-201:2014, IEC 62271-201:2014, IEC
3187	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	High-voltage switchgear and controlgear	Short time current test	IEC 62271-1:2017 Amd-1:2021, IS/IEC 62271-1:2007 RA:2018, IEC 62271-100:2021, IS/IEC 62271-100:2021, IS/IEC 62271-200:2021, IEC 62271-200:2021, IS/IEC 62271-201:2014, IEC 62271-201: 2014
3188	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	HV Load Break Switch, Isolators, Disconnectors and earthing switches	Bus-transfer current switching tests on disconnectors	IS/IEC 62271-102:2018 / IEC 62271-102: 2022
3189	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	HV Load Break Switch, Isolators, Disconnectors and earthing switches	Dielectric test	IS/IEC 62271-102:2018 / IEC 62271-102: 2022
3190	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	HV Load Break Switch, Isolators, Disconnectors and earthing switches	Short time current test	IS/IEC 62271-102:2018 / IEC 62271-102: 2022
3191	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	HV Load Break Switch, Isolators, Disconnectors and earthing switches	Temperature rise test	IS/IEC 62271-102:2018 / IEC 62271-102: 2022



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3192	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	IEEE Standard for Metal-Clad and Station-Type Cubicle Switchgear	Temperature Rise Test	IEEE-C.37.20.2 : 2015
3193	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Intelligent Electronic Device (IED) / Protection Relays / RTUs / Gateways / BCUs / Transformer Tap Changers / Any otther electronic equipments	Conformance Testing according to IEC 61850-10:2012	IEC 61850-10: 2012 as per UCA IuG Test Procedure with releavent IEC 61850 standard series referred in the Test Procedure / IEC 61850-10
3194	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Inter connection busbar for ac voltage above 1 kV up to & including 36 kV	Short time current test	IS 8084
3195	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Inter connection busbar for ac voltage above 1 kV up to $\&$ including 36 Kv	Short time current test	IS 8084
3196	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Inter connection busbar for ac voltage above 1 kV up to & including 36 kV	Short TIme Current Test, Protection against electric shock and integrity of protective circuits	IS 8084:1976 RA: 2017
3197	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage fuse, Miniature fuses-links, LV rewirable fuse	Temperature rise, power dissipation, Measurement of the power dissipation of the fuse-link, Verification of temperature-rise limits and power loss. Temperature rise Power acceptance	IEC 60269-1:2006 AMD2:2014, IEC 60269-2:2013 AMD1:2016, IEC 60269-3:2010 AMD2:2019, IEC 60269-4:2009 AMD2:2016, IS 13703-4:1993 RA:2019, IS/IEC 60269-1:2014 RA:2018, IS/IEC 60269-2:2016, IS/IEC 60269-3:2010, IS/IEC 60269-6:2010 RA:2018 IEC 60127-1:2023, IS 2086: 1993 RA:2019
3198	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage fuse, Miniature fuses-links, LV rewirable fuses	Conventional cable overload protection Cut-off current characteristic I2t characteristics, Verification of overcurrent discrimination .	IEC 60269-1:2006 AMD2:2014, IEC 60269-2:2013 AMD1:2016, IEC 60269-3:2010 AMD2:2019, IEC 60269-4:2009 AMD2:2016, IS 13703-4:1993 RA:2019, IS/IEC 60269-1:2014 RA:2018, IS/IEC 60269-2:2016, IS/IEC 60269-3:2010, IS/IEC 60269-6:2010 RA:2018 IEC 60127-1:2023, IS 2086: 1993 RA:2019



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3199	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage fuse, Miniature fuses-links, LV rewirable fuses	Conventional non-fusing current Conventional fusing current Time-current characteristics, gates, Verification of operation Overload Verification of freedom from unacceptable levels of thermally induced drift, Verification of functionality at temperature extreme (50 °C)	IEC 60269-1:2006 AMD2:2014, IEC 60269-2:2013 AMD1:2016, IEC 60269-3:2010 AMD2:2019, IEC 60269-4:2009 AMD2:2016, IS 13703-4:1993 RA:2019, IS/IEC 60269-1:2014 RA:2018, IS/IEC 60269-2:2016, IS/IEC 60269-3:2010, IS/IEC 60269-6:2010 RA:2018 IEC 60127-1:2023, IS 2086: 1993 RA:2019
3200	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage fuse, Miniature fuses-links, LV rewirable fuses	Dimensions & Visual Inspection	IEC 60269-1:2006 AMD2:2014, IEC 60269-2:2013 AMD1:2016, IEC 60269-3:2010 AMD2:2019, IEC 60269-4:2009 AMD2:2016, IS 13703-4:1993 RA:2019, IS/IEC 60269-1:2014 RA:2018, IS/IEC 60269-2:2016, IS/IEC 60269-3:2010, IS/IEC 60269-3:2010 RA:2018 IEC 60127-1:2023, IS 2086: 1993 RA:2019
3201	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage fuse, Miniature fuses-links, LV rewirable fuses	Insulation resistance, Insulating properties, High voltage test, Testing of fuse- holders	IEC 60269-1:2006 AMD2:2014, IEC 60269-2:2013 AMD1:2016, IEC 60269-3:2010 AMD2:2019, IEC 60269-4:2009 AMD2:2016, IS 13703-4:1993 RA:2019, IS/IEC 60269-1:2014 RA:2018, IS/IEC 60269-2:2016, IS/IEC 60269-3:2010, IS/IEC 60269-3:2010 RA:2018 IEC 60127-1:2023, IS 2086: 1993 RA:2019
3202	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage fuse, Miniature fuses-links, LV rewirable fuses	Mechanical strength, Fuse-links with gripping lugs of moulded material or of metalfixed in moulded material, fuse base,withdrawl force, Degree of protection, Non- deterioration of contacts Freedom from season cracking	IEC 60269-1:2006 AMD2:2014, IEC 60269-2:2013 AMD1:2016, IEC 60269-3:2010 AMD2:2019, IEC 60269-4:2009 AMD2:2016, IS 13703-4:1993 RA:2019, IS/IEC 60269-1:2014 RA:2018, IS/IEC 60269-2:2016, IS/IEC 60269-3:2010, IS/IEC 60269-6:2010 RA:2018 IEC 60127-1:2023, IS 2086: 1993 RA:2019



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3203	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage fuse, Miniature fuses-links, LV rewirable fuses	Resistance	IEC 60269-1:2006 AMD2:2014, IEC 60269-2:2013 AMD1:2016, IEC 60269-3:2010 AMD2:2019, IEC 60269-4:2009 AMD2:2016, IS 13703-4:1993 RA:2019, IS/IEC 60269-1:2014 RA:2018, IS/IEC 60269-2:2016, IS/IEC 60269-3:2010, IS/IEC 60269-6:2010 RA:2018 IEC 60127-1:2023, IS 2086: 1993 RA:2019
3204	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage fuse, Miniature fuses-links, LV rewirable fuses	Resistance to heat, Resistance to abnormal heat and fire	IEC 60269-1:2006 AMD2:2014, IEC 60269-2:2013 AMD1:2016, IEC 60269-3:2010 AMD2:2019, IEC 60269-4:2009 AMD2:2016, IS 13703-4:1993 RA:2019, IS/IEC 60269-1:2014 RA:2018, IS/IEC 60269-2:2016, IS/IEC 60269-3:2010, IS/IEC 60269-6:2010 RA:2018 IEC 60127-1:2023, IS 2086: 1993 RA:2019
3205	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage fuse, Miniature fuses-links, LV rewirable fuses	Resistance to rusting	IEC 60269-1:2006 AMD2:2014, IEC 60269-2:2013 AMD1:2016, IEC 60269-3:2010 AMD2:2019, IEC 60269-4:2009 AMD2:2016, IS 13703-4:1993 RA:2019, IS/IEC 60269-1:2014 RA:2018, IS/IEC 60269-2:2016, IS/IEC 60269-3:2010, IS/IEC 60269-6:2010 RA:2018 IEC 60127-1:2023, IS 2086: 1993 RA:2019
3206	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage fuse, Miniature fuses-links, LV rewirable fuses	Short circuit breaking capacity	IEC 60269-1:2006 AMD2:2014, IEC 60269-2:2013 AMD1:2016, IEC 60269-3:2010 AMD2:2019, IEC 60269-4:2009 AMD2:2016, IS 13703-4:1993 RA:2019, IS/IEC 60269-1:2014 RA:2018, IS/IEC 60269-2:2016, IS/IEC 60269-3:2010, IS/IEC 60269-3:2010 RA:2018 IEC 60127-1:2023, IS 2086: 1993 RA:2019
3207	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low Voltage Fuses For Voltages Not Exceeding 1000V AC Or 1500V DC	Temperature Rise Test	IS / IEC 60269 part 1:2014 (RA 2018) / IS / IEC 60269 part 2: 2016 / IS 13703 part 4 RA 2019:



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3208	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage switch gear and control gear assembly	Resistance to UV radiation, flexural strength, charpy impact strength	ISO 4892-2:2013 / ISO 178:2019 / ISO 179-1:2010 / IEC 61439-1:2020 / IEC 61439-2-2020
3209	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage switch gear and control-gear assemblies	Short Time Current Test	IS 8623 Part 2: 1993 (Reaffirmed 2018) / IS 8623 Part 3: 1993 (Reaffirmed 2018) / IEC 61439-1:2020 / IEC 61439-2:2020 / IS/IEC 61439-1:2020 / IS/IEC 61439-2
3210	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage switch gear and control-gear assemblies	Short Time Current Test	IS 8623 Part 2: 1993 (Reaffirmed 2018) / IS 8623 Part 3: 1993 (Reaffirmed 2018) / IEC 61439-1:2020 / IEC 61439-2:2020 / IS/IEC 61439-1:2020 / IS/IEC 61439-2
3211	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage switchgear & controlgear Control circuit devices & switching elements Low voltage switchgear & controlgear assemblies	Impulse voltage test	IS/IEC 60947 (Part 1: 2007 RA :2017 & Part 5-1 :2009 RA :2018) IEC 60947 (Part 1:2014-09 & Part 5:2016) IS 8623 (1-3):1993 (RA 2018) IEC 60439-1 : 2004 IEC 60439-2 : 2005 IEC 61439-1 : 2011, IS 16636 : 2017, IEC 61921 : 2017, IEC 61439-3:2012, IS/IEC 61439-3:2012
3212	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage switchgear & controlgear Control circuit devices & switching elements Low voltage fuses for voltages not exceeding 1000 V a.c. or 1500 V d.c. Voltage transformer Current transformer Instrument transformer Electrical power connectors 11 kV Horn gap fuse	Temperature rise test	IS 13703 (Part 1 to 4) : 1993 (RA 2014) IEC 60269-1 : 2009 (Part 1 to Part 4)
3213	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage switchgear & controlgear Control circuit devices & switching elements Low voltage fuses for voltages not exceeding 1000 V a.c. or 1500 V d.c. Voltage transformer Current transformer Instrument transformer Electrical power connectors 11 kV Horn gap fuse	Temperature rise test	IS 13703 (Part 1 to 4) : 1993 (RA 2014) IEC 60269-1 : 2009 (Part 1 to Part 4)
3214	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage switchgear & controlgear Control circuit devices & switching elements Low voltage fuses for voltages not exceeding 1000 V a.c. or 1500 V d.c.	Temperature rise test	IS/IEC 60947 (Part 1: 2007 RA :2017 & Part 5-1 :2009 (RA : 2018) IEC 60947 (Part 1:2014-09 & Part 5:2016) IS 13703 (Part 1, 2 & 4) : 1993 (RA 2014) IEC 60269-1
3215	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage switchgear & controlgear assemblies	Impulse voltage test	IS 8623:1993 (RA 2013) IEC 60439-1 : 2004 IEC 60439-2 : 2005 IEC 61439-1



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3216	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage switchgear & controlgear assemblies	Internal arc test	IS/IEC 61439-1:2020, IS/IEC 61439-2:2020, IS/IEC 61439-5:2014, IS/IEC 61439-6:2012, IEC 61439-1:2020, IEC 61439-2:2020, IEC 61439-2:2023, IEC 61439-6:2012, IEC 61439-7:2022, IEC TR 61641:2014, IEC 61921:2017, IS 16636: 2017 IEEE C37.23:2015
3217	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage switchgear & controlgear assemblies	Short time current tests,	IS 8623:1993 (RA 2013) IEC 60439-1 : 2004 IEC 60439-2 : 2005 IEC 61439-1 :2011 IEC 61439-3:2012, IS/IEC 61439-3:2012
3218	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low voltage switchgear & controlgear assemblies & APFC Panels	Short time current test	IS/IEC 61439-1:2020, IS/IEC 61439-2:2020, IS/IEC 61439-6:2012, IS/IEC 61439-5:2014, IEC 61439-5:2023, IEC 61439-1:2020, IEC 61439-2:2020, IEC 61439-6:2012, IEC 61439-7:2022, IEC TR 61641:2014, IEC 61921:2017, IS 16636: 2017 IEEE C37.23:2015
3219	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage fuses	Resistance to heat & fire	IEC 60269-1 : 2006 IS 13703 : 1993 (RA
3220	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies	Dielectric properties	IEC 61439-1:2011 IEC 61439-6:2012 IEC 60664-1:2007 IEC 61180-1:2016 IEC 61180-2:2016 IEC 60068-2-30:2005 IEC 60068-2-30:2005 IEC 60068-2-2:2007 IEC 60068-2-2:2007 IEC 60695-2-10:2013 IEC 60695-2-11:2014 IEC 62262:2002 IEC 60068-2-75:2014 IEC 62271-200:2011 IEC 61439-6: 2012, IS 16636 : 2017, IEC 61439-3:2012, IS/IEC 61439-3:2012



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3221	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies & APFC Panels	Clearance and creepage distances Lifting Marking	IEC 61439-1:2020, IEC 61439-2:2020, IEC 61439-6:2012, IEC 60664-1:2020, IEC 60068-2-30:2005, IEC 60068-2-30:2005, IEC 60068-2-11:2021, IEC 60695-2-10:2021, IEC 60695-2-10:2021, IEC 61439-7:2022, IEC 61439-7:2022, IEC 60068-2-75:2014, IEC 61439-6: 2012, IS 16636 : 2017, IEC 61921:2017, IEC 62208:2023, IEEE C37.23:2015, IEC 61439-3:2012, IS/IEC 61439-3:2012
3222	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies & APFC Panels	Mechanical impact Ability to withstand mechanical loads	IEC 61439-1:2020, IEC 61439-2:2020, IEC 61439-6:2012, IEC 60664-1:2020, IS/IEC 61439-5:2014, IEC 61439-5:2023, IEC 61439-7:2022, IEC 61439-7:2022, IEC 60068-2-30:2005, IEC 60068-2-30:2005, IEC 60068-2-11:2021, ISO 4628-3:2016, IEC 60068-2-2:2007, IEC 60695-2-10:2021, IEC 60695-2-10:2021, IEC 60695-2-11:2021, IEC 6068-2-75:2014, IEC 61439-6: 2012, IS 16636 : 2017, IEC 61921:2017, IEC 62208:2023, IEEE C37.23:2015, IEC 61439-3:2012, IS/IEC 61439-3:2012



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3223	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies & APFC panels	Properties of insulating materials	IEC 61439-1:2020, IEC 61439-2:2020, IEC 61439-6:2012, IS/IEC 61439-5:2014, IEC 61439-5:2023, IEC 61439-7:2022, IEC 6043-7:2022, IEC 60664-1:2020, IEC 60068-2-30:2005, IEC 60068-2-11:2021, ISO 4628-3:2016, IEC 60685-2-11:2021, IEC 60695-2-11:2021, IEC 60695-2-11:2021, IEC 60695-2-11:2021, IEC 60685-2-75:2014, IEC 61439-6: 2012, IS 16636 : 2017, IEC 61921:2017, IEC 62208:2023, IEEE C37.23:2015, IEC 61439-3:2012, IS/IEC 61439-3:2012
3224	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgear and controlgear assemblies & APFC Panels	Resistance to corrosion	IEC 61439-1:2020, IEC 61439-2:2020, IEC 61439-6:2012, IS/IEC 61439-5:2014, IEC 61439-5:2023, IEC 61439-7:2022, IEC 60664-1:2020, IEC 60068-2-30:2005, IEC 60068-2-30:2005, IEC 60068-2-11:2021, ISO 4628-3:2016, IEC 60068-2-2:2007, IEC 60695-2-10:2021, IEC 60695-2-11:2021, IEC 60695-2-11:2021, IEC 60068-2-75:2014, IEC 61439-6: 2012, IS 16636 : 2017, IEC 61921:2017, IEE C37.23:2015
3225	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-Voltage Switchgear and controlgear assemblies- PSA, DBOs, PDBs,Busbar Trunking systems	Temperature Rise Test	IS/IEC 61439 Part 1 :2020 / IS/IEC 61439 Part 2:2020 / IS/IEC 61439 Part 3:2012 / IS/IEC 61439 Part 4: 2012 / IS/IEC 61439 Part 5 :2014 / IS/IEC 61439 Part 6:2012
3226	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Low-voltage switchgearand controlgear assemblies- Power switchgear and controlgear assemblies, Distribution Boards Intended to be Operated by Ordinary Persons (DBO) Busbar trunking systems (Busways)	Temperature Rise Test	IEC 61439-1:2020 / IEC 61439-2:2020 / IEC 61439-3:2012 / IEC 61439-4:2023 / IEC 61439-5:2023 / IEC 61439-6:2012



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3227	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Rewirable fuses	Electrical durability Electrical & Mechanical endurance	IS:2086 : 1993 (RA
3228	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	MEASURING RELAYS AND PROTECTION EQUIPMENT	Contact performance	IEC 60255-1:2022, IEC 60255-27:2023
3229	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Metal Enclosed Bus	Temperature Rise Test	ANSI IEEE C 37.23 : 2015
3230	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Metal fittings of insulators for overhead power lines with nominal voltage greater than 1000 volts	Resistance Measurement	IS 2486-1 :1993 RA:2018
3231	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Metal fittings of insulators for overhead power lines with nominal voltage greater than 1000 volts	Resistance Measurement	IS 2486-1 :1993 RA:2018
3232	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Outdoor Metal-Enclosed bus ducts	Continuous Current Test/Temperature Rise Test	ANSI IEEE C 37.23 : 2015
3233	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Power Switchgear for Switching,Interrupting,Metering,Protection, Regulating purposes	Continuous current Test/Temperature Rise Test	IEEE C37.100
3234	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Prefabricated package sub-station	Short time current test	IEC 62271-202
3235	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB, RCBO, MCCB, MCB	Testing & measurement techniques Surge immunity test	IEC 61000-4-5 : 2014 IS:14700: Part 4: Sec 5: 2012 RA
3236	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	RCCB, RCBO, MCCB, MCB & Others	Oscillatory wave immunity test / Ring wave test	IEC 61000-4-12:2017 IS:14700: Part 4: Sec 12: 2008 (RA
3237	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relay and Protection equipment	Distance Protection 1.2) Rated frequency characteristic accuracy tests 1.2.2) Basic characteristic accuracy under steady state conditions 1.2.3) Basic directional accuracy under steady state conditions 1.2.4) Determination of accuracy related to time delay setting 1.2.5) Determination and reporting of the disengaging time	IEC 60255-121-2014
3238	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relay and protective equipment	Accuracy and operating characteristics	IEC 60255-13-1980 / IS/IEC 60255-13-1980



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3239	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relay ans Protection equiipment	Distance Protection 1.4) Performance with harmonics 1.4.1) Steady state harmonics tests 1.4.2) Transient oscillation tests (network simulation L-C) 1.5) Performance during off- nominal frequency 1.5.1) Steady state frequency deviation tests 1.5.2) Transient frequency deviation tests 1.6.1) Double infeed tests 1.6.1) Double infeed tests for single line 1.6.2) Double infeed tests parallel lines (without mutual inductance) 1.6.3) Reporting of double infeed tests results	IEC 60255-121-2014
3240	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relay ans Protection equipment	Distance Protecti 1.2) Rated frequency characteristic accuracy tests 1.2.2) Basic characteristic accuracy under steady state conditions 1.2.3) Basic directional accuracy under steady state conditions 1.2.4) Determination of accuracy related to time delay setting 1.2.5) Determination and reporting of the disengaging time	IEC 60255-121-2014
3241	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection Equipment	Functional requirements for Distance Protection 1.4) Performance with harmonics 1.4.1) Steady state harmonics tests 1.4.2) Transient oscillation tests (network simulation L-C) 1.5) Performance during off- nominal frequency 1.5.1) Steady state frequency deviation tests 1.5.2) Transient frequency deviation tests 1.6) Double in feed tests 1.6.1) Double in feed tests for single line 1.6.2) Double in feed tests parallel lines (without mutual inductance)	IEC 60255-121-2014
3242	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Operation and Accuracy	IEC 60255-12-1980 / IS/IEC 60255-12-1980 Reaffirmed 2020



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3243	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Operation and Accuracy	IEC 60255-12-1980 / IS/IEC 60255-12-1980 Reaffirmed 2020
3244	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	1.0 Contact performance 1.1) Mechanical endurance 1.2) Limited making capacity 1.3) Contact current 1.4) Limited breaking capacity	IEC 60255-1-2022 / IS/IEC 60255-1-2009 Reaffirmed 2020
3245	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Functional requirements for Thermal Electrical Relays 1.2)Determination of steady- state errors related to the operating current value 1.3)Determination of steady- state errors related to the characteristic quantity and the operate time 1.3.1)Accuracy determination of the cold curve 1.3.2)Accuracy determination of the hot curves	IEC 60255-149-2013 / IS/IEC 60255-149-2013
3246	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Operation and Accuracy	IEC 60255-12-1980 / IS/IEC 60255-12-1980 Reaffirmed 2020
3247	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Functional requirements for Thermal Electrical Relays 1.4 Performance with specific cooling thermal time constant 1.5 Performance with harmonics 1.6 Performance during frequency variations 1.7 Performance during different ambient temperatures	IEC 60255-149-2013 / IS/IEC 60255-149-2013
3248	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Functional requirements for Over/under current protection 1.0) Determination of steady state errors relating to the characteristic quantity 1.1) Accuracy of setting (start) value 1.2) Reset ratio determination 2.0) Determination of the steady state errors related to the start and operate time 3.0) Determination of steady state error related to the reset time 4.0) Determination of transient performance 5.0) Response to time varying values of the characteristic quantity for dependent time relay.	IEC 60255-151-2009 / IS/IEC 60255-151-2009



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3249	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	AC or DC dielectric voltage test/dielectric voltage test/Dielectric voltage test on Electrical Timer relays	IEC 60255-27- 2023 / IS/IEC 60255-27- 2013/ IS 5834 (Part III)-1981 Reaffirmed 2019 Amendment 1994
3250	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Damped Oscillatory Wave Immunity Test	IEC 61000-4-18-2019 / IEC 60255 - 26-2023 / IS/IEC 60255 - 26-2013
3251	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Frequency protection 1)Functional test methodology 1.2)Determination of steady state errors related to the characteristic quantity 1.2.1)Accuracy of the start value 1.2.2)Reset hysteresis or reset ratio determination 1.3)Determination of the start time 1.3.2)Under/over frequency 1.3.3)Rate of change of frequency 1.4)Determination of the accuracy of the operate time delay 1.4.2)Description of test method 1.4.3)Report of the operate time-delay acc	IEC 60255-181-2019
3252	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Frequency protection 1)Functional test methodology 1.2)Determination of steady state errors related to the characteristic quantity 1.2.1)Accuracy of the start value 1.2.2)Reset hysteresis or reset ratio determination 1.3)Determination of the start time 1.3.2)Under/over frequency 1.3.3)Rate of change of frequency 1.4)Determination of the accuracy of the operate time delay 1.4.2)Description of test method 1.4.3)Report of the operate time-delay acc	IEC 60255-181-2019



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3253	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Frequency protection 1)Functional test methodology 1.2)Determination of steady state errors related to the characteristic quantity 1.2.1)Accuracy of the start value 1.2.2)Reset hysteresis or reset ratio determination 1.3)Determination of the start time 1.3.2)Under/over frequency 1.3.3)Rate of change of frequency 1.4)Determination of the accuracy of the operate time delay 1.4.2)Description of test method 1.4.3)Report of the operate time-delay acc	IEC 60255-181-2019
3254	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Frequency protection 1)Functional test methodology 1.2)Determination of steady state errors related to the characteristic quantity 1.2.1)Accuracy of the start value 1.2.2)Reset hysteresis or reset ratio determination 1.3)Determination of the start time 1.3.2)Under/over frequency 1.3.3)Rate of change of frequency 1.4)Determination of the accuracy of the operate time delay 1.4.2)Description of test method 1.4.3)Report of the operate time-delay acc	IEC 60255-181-2019
3255	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Frequency protection 1.5)Determination of disengaging time 1.5.2)Under/over frequency 1.5.3)Rate of change of frequency 1.6)Performance with harmonics 1.6.2)Accuracy of the under/over frequency start value in the presence of harmonics 1.6.3)Accuracy of the ROCOF start value in the presence of harmonics	IEC 60255-181-2019



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3256	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Frequency protection 1.7)Stability in the case of sudden voltage change (phase shift and magnitude change 1.7.2)Performance in case of voltage phase shift and magnitude change 1.7.3)Performance in case of voltage magnitude drop and restoration	IEC 60255-181-2019
3257	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Frequency protection 1.7)Stability in the case of sudden voltage change (phase shift and magnitude change) 1.7.2)Performance in case of voltage phase shift and magnitude change 1.7.3)Performance in case of voltage magnitude drop and restoration	IEC 60255 - 181
3258	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Frequency protection 1.7)Stability in the case of sudden voltage change (phase shift and magnitude change) 1.7.2)Performance in case of voltage phase shift and magnitude change 1.7.3)Performance in case of voltage magnitude drop and restoration	IEC 60255-181-2019
3259	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Frequency protection 1.7)Stability in the case of sudden voltage change (phase shift and magnitude change) 1.7.2)Performance in case of voltage phase shift and magnitude change 1.7.3)Performance in case of voltage magnitude drop and restoration	IEC 60255-181-2019
3260	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Frequency protection 1.7)Stability in the case of sudden voltage change (phase shift and magnitude change) 1.7.2)Performance in case of voltage phase shift and magnitude change 1.7.3)Performance in case of voltage magnitude drop and restoration	IEC 60255-181-2019



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3261	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Functional requirements for Thermal Electrical Relays 1.2)Determination of steady- state errors related to the operating current value 1.3)Determination of steady- state errors related to the characteristic quantity and the operate time 1.3.1)Accuracy determination of the cold curve 1.3.2)Accuracy determination of the hot curves	IEC 60255-149-2013 / IS/IEC 60255-149-2013
3262	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Functional requirements for Over/under current protection 1.0) Determination of steady state errors relating to the characteristic quantity 1.1) Accuracy of setting (start) value 1.2) Reset ratio determination of the steady state errors related to the start and operate time 3.0) Determination of steady state error related to the reset time 4.0) Determination of transient performance 5.0) Response to time varying values of the characteristic quantity for dependent time relay	IEC 60255-151- 2009 / IS/IEC 60255-151-2009
3263	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Functional requirements for Over/under current protection 1.0) Determination of steady state errors relating to the characteristic quantity 1.1) Accuracy of setting (start) value 1.2) Reset ratio determination 2.0) Determination of the steady state errors related to the start and operate time 3.0) Determination of steady state error related to the reset time 4.0) Determination of transient performance 5.0) Response to time varying values of the characteristic quantity for dependent time relay	IEC 60255-151-2009 / IS/IEC 60255-151-2009



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3264	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Functional requirements for Thermal Electrical Relays 1.4 Performance with specific cooling thermal time constant 1.5 Performance with harmonics 1.6 Performance during frequency variations 1.7 Performance during different ambient temperatures	IEC 60255-149-2013 / IS/IEC 60255-149-2013
3265	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Functional Tests: 6. Harmonic restraint basic accuracy test under steady state conditions at nominal frequency 6.1 Application specific considerations: transformer differential 6.2 Reporting of the harmonic restraint basic accuracy test under steady state conditions at nominal frequency 7. Accuracy related to time delay setting 7.1 Application specific considerations: phase biased differential 7.2 Application specific considerations: biased restricted earth fault	IEC 60255-187-1
3266	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Insulation Resistance / Measurement of Insulation resistance/Insulation Resistance of Electrical Timer relay	IEC 60255-27- 2023 / IS/IEC 60255-27- 2013 / IS 5834 (Part III)-1981 Reaffirmed 2019 Amendment 1994
3267	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Operation and Accuracy	IEC 60255-12-1980 / IS/IEC 60255 -12-1980 Reaffirmed 2020
3268	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Verification of Limits of Operation , Verification of Resetting time, Setting Accuracy test, Repeat Accuracy test of Electrical Timer Relays	IS 5834 (Part III)-1981 Reaffirmed 2019 Amendment 1994



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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
3269	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment :	Functional requirements for Thermal Electrical Relays 1.2)Determination of steady- state errors related to the operating current value 1.3)Determination of steady- state errors related to the characteristic quantity and the operate time 1.3.1)Accuracy determination of the cold curve 1.3.2)Accuracy determination of the hot curves	IEC 60255-149-2013 / IS/IEC 60255-149-2013
3270	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Distance Protection 1.3) Dynamic performance 1.3.2 Dynamic performance: operate time and transient overreach (SIR diagrams) 1.3.3) Dynamic performance: operate time and transient overreach (CVT-SIR diagrams) 1.3.4) Dynamic performance: transient overreach tests 1.3.5) Dynamic performance: typical operate time	IEC 60255-121-2014
3271	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Distance Protection 1.3) Dynamic performance 1.3.2 Dynamic performance: operate time and transient overreach (SIR diagrams) 1.3.3) Dynamic performance: operate time and transient overreach (CVT-SIR diagrams) 1.3.4) Dynamic performance: transient overreach tests 1.3.5) Dynamic performance: typical operate time	IEC 60255-121-2014 / IS/IEC 60255-121-2014



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3272	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Distance Protection 1.4) Performance with harmonics 1.4.1) Steady state harmonics tests 1.4.2) Transient oscillation tests (network simulation L-C) 1.5) Performance during off- nominal frequency 1.5.1) Steady state frequency deviation tests 1.5.2) Transient frequency deviation tests 1.6) Double infeed tests 1.6.1) Double infeed tests for single line 1.6.2) Double infeed tests parallel lines (without mutual inductance) 1.6.3) Reporting of double infeed tests results	IEC 60255-121-2014 / IS/IEC 60255-121-2014
3273	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Distance Protection 1.4) Performance with harmonics 1.4.1) Steady state harmonics tests 1.4.2) Transient oscillation tests (network simulation L-C) 1.5) Performance during off- nominal frequency 1.5.1) Steady state frequency deviation tests 1.5.2) Transient frequency deviation tests 1.6.1) Double infeed tests 1.6.1) Double infeed tests for single line 1.6.2) Double infeed tests parallel lines (without mutual inductance) 1.6.3) Reporting of double infeed tests results	IEC 60255-121-2014 / IS/IEC 60255-121-2014
3274	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Distance Protection 1) Functional tests 1.2) Rated frequency characteristic accuracy tests 1.2.2) Basic characteristic accuracy under steady state conditions 1.2.3) Basic directional accuracy under steady state conditions 1.2.4) Determination of accuracy related to time delay setting 1.2.5) Determination and reporting of the disengaging time	IEC 60255-121-2014 / IS/IEC 60255-121-2014



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3275	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Distance Protection 1.3) Dynamic performance 1.3.2 Dynamic performance: operate time and transient overreach (SIR diagrams) 1.3.3) Dynamic performance: operate time and transient overreach (CVT-SIR diagrams) 1.3.4) Dynamic performance: transient overreach tests 1.3.5) Dynamic performance: typical operate time	IEC 60255-121-2014 / IS/IEC 60255-121-2014
3276	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Distance Protection 1.3) Dynamic performance 1.3.2 Dynamic performance: operate time and transient overreach (SIR diagrams) 1.3.3) Dynamic performance: operate time and transient overreach (CVT-SIR diagrams) 1.3.4) Dynamic performance: transient overreach tests 1.3.5) Dynamic performance: typical operate time	IEC 60255-121-2014 / IS/IEC 60255-121-2014
3277	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Distance Protection 1.3) Dynamic performance 1.3.2 Dynamic performance: operate time and transient overreach (SIR diagrams) 1.3.3) Dynamic performance: operate time and transient overreach (CVT-SIR diagrams) 1.3.4) Dynamic performance: transient overreach tests 1.3.5) Dynamic performance: typical operate time	IEC 60255-121-2014 / IS/IEC 60255-121-2014
3278	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Distance Protection 1) Functional tests 1.2) Rated frequency characteristic accuracy tests 1.2.2) Basic characteristic accuracy under steady state conditions 1.2.3) Basic directional accuracy under steady state conditions 1.2.4) Determination of accuracy related to time delay setting 1.2.5) Determination and reporting of the disengaging time	IEC 60255-121-2014 / IS/IEC 60255-121-2014



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3279	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Distance Protection 1) Functional tests 1.2) Rated frequency characteristic accuracy testsl 1.2.2) Basic characteristic accuracy under steady state conditions 1.2.3) Basic directional accuracy under steady state conditions 1.2.4) Determination of accuracy related to time delay setting 1.2.5) Determination and reporting of the disengaging time	IEC 60255-121-2014 / IS/IEC 60255-121-2014
3280	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Distance Protection 1.4) Performance with harmonics 1.4.1) Steady state harmonics tests 1.4.2) Transient oscillation tests (network simulation L-C) 1.5) Performance during off- nominal frequency 1.5.1) Steady state frequency deviation tests 1.5.2) Transient frequency deviation tests 1.6.1) Double infeed tests 1.6.1) Double infeed tests for single line 1.6.2) Double infeed tests parallel lines (without mutual inductance) 1.6.3) Reporting of double infeed tests results	IEC 60255-121-2014 / IS/IEC 60255-121-2014
3281	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Functional requirements for Thermal Electrical Relays 1.4 Performance with specific cooling thermal time constant 1.5 Performance with harmonics 1.6 Performance during frequency variations 1.7 Performance during different ambient temperatures	IEC 60255-149-2013 / IS/IEC 60255-149-2013
3282	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	accuracy and operating characteristics	IEC 60255-13-1980 / IS/IEC 60255-13-1980 Reaffirmed 2022
3283	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	accuracy and operating characteristics	IEC 60255-13-1980 / IS/IEC 60255-13-1980 Reaffirmed 2022


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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
3284	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Frequency protection 1.5)Determination of disengaging time 1.5.2)Under/over frequency 1.5.3)Rate of change of frequency 1.6)Performance with harmonics 1.6.2)Accuracy of the under/over frequency start value in the presence of harmonics 1.6.3)Accuracy of the ROCOF start value in the presence of harmonics	IEC 60255-181-2019
3285	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	1. Functional tests 1.1 Test related to the declared thermal withstand current 2 Steady state accuracy tests in effective range 2.1 Basic characteristic accuracy 2.1.1 Application specific considerations: phase biased differential 2.1.2 Application specific considerations: biased restricted earth fault 3. Ratio (magnitude) compensation accuracy 3.1 Application specific considerations: transformer differential 4. Phase (vector) compensation validity 4.1 Start ratios resulting from phase (vector)	IEC 60255-187-1
3286	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	1.0) Burden Measurements 1.1) Burden for analogue voltage input 1.2) Burden for analogue current input 1.3) Burden for AC power supply 1.3.1) Burden with minimum power supply load 1.3.2) Burden with maximum power supply load 1.4) Burden for DC power supply 1.4.1) Burden with minimum power supply load 1.4.2) Burden with maximum power supply load 1.5) Burden for Binary input	IEC 60255-1-2022 / IS/IEC 60255-1-2009 Reaffirmed 2020



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3287	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	1.0) Burden Measurements 1.1) Burden for analogue voltage input 1.2) Burden for analogue current input 1.3) Burden for AC power supply 1.3.1) Burden with minimum power supply load 1.3.2) Burden with maximum power supply load 1.4) Burden for DC power supply 1.4.1) Burden with minimum power supply load 1.4.2) Burden with maximum power supply load 1.5) Burden for Binary input	IEC 60255-1-2022 / IS/IEC 60255-1-2009 Reaffirmed 2020
3288	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	1.0) Burden Measurements 1.1) Burden for analogue voltage input 1.2) Burden for analogue current input 1.3) Burden for AC power supply 1.3.1) Burden with minimum power supply load 1.3.2) Burden with maximum power supply load 1.4) Burden for DC power supply 1.4.1) Burden with minimum power supply load 1.4.2) Burden with maximum power supply load 1.5) Burden for Binary input	IEC 60255-1-2022 / IS/IEC 60255-1-2009 Reaffirmed 2020: 2022
3289	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	1.0) Burden Measurements 1.1) Burden for analogue voltage input 1.2) Burden for analogue current input 1.3) Burden for AC power supply 1.3.1) Burden with minimum power supply load 1.3.2) Burden with maximum power supply load 1.4) Burden for DC power supply 1.4.1) Burden with minimum power supply load 1.4.2) Burden with maximum power supply load 1.5) Burden for Binary input	IEC 60255-1-2022 / IS/IEC 60255-1-2009 Reaffirmed 2020: 2022



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3290	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	 1.0) Burden Measurements 1.1) Burden for analogue voltage input 1.2) Burden for analogue current input 1.3) Burden for AC power supply 1.3.1) Burden with minimum power supply load 1.3.2) Burden with maximum power supply load 1.4) Burden for DC power supply 1.4.1) Burden with minimum power supply load 1.4.2) Burden with maximum power supply load 1.4.2) Burden with maximum power supply load 1.4.3) Burden for Binary input 	IEC 60255-1-2022 / IS/IEC 60255-1-2009 Reaffirmed 2020: 2022 : 2022
3291	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	accuracy and operating characteristics	IEC 60255-13-1980 / IS/IEC 60255-13-1980 Reaffirmed 2022
3292	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	accuracy and operating characteristics	IEC 60255-13-1980 / IS/IEC 60255-13-1980 Reaffirmed 2022
3293	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Contact current	IS/IEC 60255-Part 1-2009 Reaffirmed 2022
3294	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Contact current	IS/IEC 60255-Part 1-2009 Reaffirmed 2022
3295	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Contact current	IS/IEC 60255-Part 1-2009 Reaffirmed 2022
3296	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Contact current	IS/IEC 60255-Part 1-2009 Reaffirmed 2022
3297	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Contact current	IS/IEC 60255-Part 1-2009 Reaffirmed 2022
3298	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Contact current	IS/IEC 60255-Part 1-2009 Reaffirmed 2022
3299	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Contact performance	IS/IEC 60255-Part 1-2009 Reaffirmed 2022
3300	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Contact performance	IS/IEC 60255-Part 1-2009 Reaffirmed 2022



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3301	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Contact performance	IS/IEC 60255-Part 1-2009 Reaffirmed 2022
3302	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Contact performance	IS/IEC 60255-Part 1-2009 Reaffirmed 2022
3303	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Distance Protection 1) Functional test 1.2) Rated frequency characteristic accuracy tests 1.2.2) Basic characteristic accuracy under steady state conditions 1.2.3) Basic directional accuracy under steady state conditions 1.2.4) Determination of accuracy related to time delay setting 1.2.5) Determination and reporting of the disengaging time	IEC 60255-121-2014 / IS/IEC 60255-121-2014
3304	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays And Protection Equipment	frequency protection 1.5)Determination of disengaging time 1.5.2)Under/over frequency 1.5.3)Rate of change of frequency 1.6)Performance with harmonics 1.6.2)Accuracy of the under/over frequency start value in the presence of harmonics 1.6.3)Accuracy of the ROCOF start value in the presence of harmonics	IEC 60255-181-2019
3305	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Functional requirements for Thermal Electrical Relays 1.4 Performance with specific cooling thermal time constant 1.5 Performance with harmonics 1.6 Performance during frequency variations 1.7 Performance during different ambient temperatures	IEC 60255-149-2013 / IS/IEC 60255-149-2013
3306	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Functional requirements for Thermal Electrical Relays 1.4 Performance with specific cooling thermal time constant 1.5 Performance with harmonics 1.6 Performance during frequency variations 1.7 Performance during different ambient temperatures	IEC 60255-149-2013 / IS/IEC 60255-149-2013: 2013

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3307	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Functional tests : 4. Phase (vector) compensation validity 4.1 Start ratios resulting from phase (vector) compensation 4.2 Additional errors resulting from phase (vector) compensation 5. Zero sequence compensation validity 5.1 Start ratios resulting from zero sequence compensation - Application specific considerations: transformer differential 5.2 Additional errors resulting from zero sequence compensation 6. Harmonic restraint basic accuracy test under steady state conditions at nominal frequen	IEC 60255-187-1
3308	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Functional Tests: 8. Determination and reporting of the disengage time 8.1 Application specific considerations: phase biased differential 8.2 Application specific considerations: biased restricted earth fault	IEC 60255-187-1
3309	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited breaking capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3310	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited breaking capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3311	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited breaking capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3312	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited breaking capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3313	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited breaking capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3314	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited breaking capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3315	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited breaking capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020

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3316	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited breaking capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020: 2022
3317	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited breaking capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020: 2022
3318	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited making capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3319	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited making capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3320	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited making capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3321	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited making capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3322	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited making capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3323	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited making capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3324	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited making capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3325	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited making capacity	IS/IEC 60255-Part 1-2009
3326	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited making capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3327	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Limited making capacity	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3328	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Measurement compliance test and evaluation - Dynamic compliance Performance during ramp of system frequency	IEC/IEEE 60255-118-1-2018



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3329	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Measurement compliance test and evaluation - Dynamic compliance Performance under step changes in phase and magnitude	IEC/IEEE 60255-118-1-2018
3330	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Mechanical endurance	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3331	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Mechanical endurance	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3332	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Mechanical endurance	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3333	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Mechanical endurance	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3334	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Mechanical endurance	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3335	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Mechanical endurance	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3336	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Mechanical endurance	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3337	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment	Mechanical endurance	IEC 60255-Part 1-2022 / IS/IEC 60255-Part 1-2009 Reaffirmed 2020
3338	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	Operation and Accuracy	IEC 60255-12-1980 / IS/IEC 60255-12-1980 Reaffirmed 2020
3339	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment :	Functional requirements for Distance Protection 1.3) Dynamic performance 1.3.2 Dynamic performance: operate time and transient overreach (SIR diagrams) 1.3.3) Dynamic performance: operate time and transient overreach (CVT-SIR diagrams) 1.3.4) Dynamic performance: transient overreach tests 1.3.5) Dynamic performance: typical operate time	IEC 60255-121-2014 / IS/IEC 60255-121-2014



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3340	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment:	Functional requirements for Over/under current protection 1.0) Determination of steady state errors relating to the characteristic quantity 1.1) Accuracy of setting (start) value 1.2) Reset ratio determination of the steady state errors related to the start and operate time 3.0) Determination of steady state error related to the reset time 4.0) Determination of transient performance 5.0) Response to time varying values of the characteristic quantity for dependent time relay	IEC 60255-151- 2009 / IS/IEC 60255-151-2009
3341	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment:	Functional requirements for Over/under Voltage protection 1.0)Determination of steady state errors relating to the characteristic quantity 1.1)Accuracy of setting(start)value 1.2)Reset ratio determination 2.0)Determination of the steady state errors related to the start and operate time 3.0)Determination of steady state error related to the reset time 4.0)Determination of transient performance 4.1)Transient overreach 4.2)Overshoot time for undervoltage protection 5.0)Response to time varying val	IEC 60255-127-2010 / IS/IEC 60255-127-2010



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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
3342	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection equipment:	Functional requirements for Over/under Voltage protection 1.0)Determination of steady state errors relating to the characteristic quantity 1.1)Accuracy of setting(start)value 1.2)Reset ratio determination 2.0)Determination of the steady state errors related to the start and operate time 3.0)Determination of steady state error related to the reset time 4.0)Determination of transient performance)Transient overreach 4.2)Overshoot time for undervoltage protection 5.0)Response to time varying values	IEC 60255-127-2010 / IS/IEC 60255-127-2010
3343	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and Protection Equipment:	Functional requirements for Over/under Voltage protection 1.0)Determination of steady state errors relating to the characteristic quantity 1.1)Accuracy of setting(start)value 1.2)Reset ratio determination 2.0)Determination of the steady state errors related to the start and operate time 3.0)Determination of steady state error related to the reset time 4.0)Determination of transient performance4.1)Transient overreach 4.2)Overshoot time for undervoltage protection 5.0)Response to time varying valu	IEC 60255-127- 2010 / IS/IEC 60255-127-2010
3344	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Relays and protection equipment	1.0 Immunity of auxiliary power supply port 1.1 AC and DC voltage dips 1.2 AC and DC voltage interruptions 1.3 Ripple on DC input power port immunity test 1.4 Gradual shutdown/start-up	IEC 60255-26:2023



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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
3345	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current – operated circuit breakers	Non-interchangeability Indelibility of marking Reliability of screws, current carrying parts and connections	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3346	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current - operated circuit breakers	Reliability of terminals for external conductors	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3347	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current – operated circuit breakers	Clearance & creepage distances	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3348	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current – operated circuit breakers	Marking General Mechanism	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3349	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current – operated circuit breakers	Protection against electric shock	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991



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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
3350	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current - operated circuit breakers	Resistance to abnormal heat and to fire	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3351	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current – operated circuit breakers	Resistance to heat	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3352	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current - operated circuit breakers	Resistance to mechanical shock and impact	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3353	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current - operated circuit breakers	Resistance to rusting	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3354	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current – operated circuit breakers	Behaviour of RCCBs in case of an earth fault current comprising of d.c. component	IS 12640-1:2016, IS 12640-2:2016, IEC 60755:2017, IEC 61008-1:2013, IEC 61008-2-1:1990, IEC 61008-2-2:1990, IEC 61009-1:2013, IEC 61009-2-1:1991, IEC 61009-2-2



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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
3355	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current - operated circuit breakers	Behaviour of RCCBs in case of failure of the line voltage for RCCBs Limiting values of the non-operating current under overcurrent conditions	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3356	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current - operated circuit breakers	Behaviour of RCCBs under short-circuit conditions	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3357	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current – operated circuit breakers	Dielectric properties	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3358	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current – operated circuit breakers	Operating characteristic Mechanical and electrical endurance	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3359	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current – operated circuit breakers	Reliability Ageing of electronic components	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991



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3360	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current – operated circuit breakers	Resistance against unwanted tripping due to current surges	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3361	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current – operated circuit breakers	Resistance of the insulation against an impulse voltage	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3362	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current – operated circuit breakers	Short circuit capacity	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2:2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3363	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current – operated circuit breakers	Temperature rise	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3364	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Residual current - operated circuit breakers	Trip-free mechanism Operation of the test device at the limits of rated voltage	IS 12640-1:2016 / IS 12640-2:2016 / IEC 60755:2017 / IEC 61008-1:2013 / IEC 61008-2-1:1990 / IEC 61008-2-2:1990 / IEC 61009-1:2013 / IEC 61009-2-1:1991 / IEC 61009-2-2: 1991
3365	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Rolling Stock equipment for Railway applications	Random Vibration Test & Mechanical Shock Test	IEC 61373

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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
3366	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Rolling Stock equipment for Railway applications	Random Vibration Test & Mechanical Shock Test	IEC 61373
3367	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Switches Disconnectors Switch disconector & fuse combination units	Rated making and breaking capacity test & Conditional Short Circuit Test	IS/IEC 60947-1:2007 RA:2017, IS/IEC 60947-3:2012 RA:2018, IEC 60947-1:2020, IEC 60947-3
3368	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Switches Disconnectors Switch disconnector & fuse combination units	Dielectric-properties, Routine & Sampling tests	IS/IEC 60947-1:2020, IS/IEC 60947-3:2020, IEC 60947-1:2020, IEC 60947-3: 2020
3369	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Switches Disconnectors Switch disconnector & fuse combination units	Electrical durability Electrical & Mechanical endurance	IS/IEC 60947-1:2020, IS/IEC 60947-3:2020, IEC 60947-1:2020, IEC 60947-3: 2020
3370	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Switches Disconnectors Switch disconnector & fuse combination units	Making and breaking capacities Tripping limits & Characteristics Operational performance	IS/IEC 60947-1:2020, IS/IEC 60947-3:2020, IEC 60947-1:2020, IEC 60947-3: 2020
3371	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Switches Disconnectors Switch disconnector & fuse combination units	Short time current test	IS/IEC 60947-1:2020, IS/IEC 60947-3:2020, IEC 60947-1:2020, IEC 60947-3: 2020
3372	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Switches Disconnectors Switch disconnector & fuse combination units	Temperature rise	IS/IEC 60947-1:2020, IS/IEC 60947-3:2020, IEC 60947-1:2020, IEC 60947-3: 2020
3373	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Switches Disconnectors Switch disconnector & fuse combination units	Rated fused short circuit current test	IS/IEC 60947-1:2020, IS/IEC 60947-3:2020, IEC 60947-1:2020, IEC 60947-3: 2020
3374	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Switches Disconnectors Switch disconnector & fuse combination units	Short circuit making & breaking capacity	IS/IEC 60947-1:2020, IS/IEC 60947-3:2020, IEC 60947-1:2020, IEC 60947-3: 2020
3375	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Switches & switch disconnector for voltages above 1 kV & upto 33kV	Short time current test	IS 9920 : Part 1 : 2002(RA 2012) IEC 62271-200 : 2011 IS/IEC 62271-200:2011 (RA
3376	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Switchgear and controlgear for voltages exceeding 1000 V	Short time current test	IS/IEC 62271-200:2011 RA : 2018 IS/IEC 62271-1:2007 (RA:
3377	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Synchrophasor Measurements for Power Systems	Dynamic compliance - performance under step change in phase and magnitude	IEEE C37.118.1-2011 / IEEE C37.118.1a-2014



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3378	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Synchrophasor Measurements for Power Systems	Steady-state compliance-Signal Magnitude Voltage	IEEE C37.118.1-2011 / IEEE C37.118.1a-2014
3379	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Synchrophasor Measurements for Power Systems	Dynamic compliance - Measurement Bandwidth	IEEE C37.118.1-2011 / IEEE C37.118.1a-2014
3380	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Synchrophasor Measurements for Power Systems	Dynamic compliance- performance during ramp of system frequency	IEEE C37.118.1-2011 / IEEE C37.118.1a-2014
3381	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Synchrophasor Measurements for Power Systems	Steady -state compliance -Out of Band Interference	IEEE C37.118.1-2011 / IEEE C37.118.1a-2014
3382	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Synchrophasor Measurements for Power Systems	Steady-State compliance - Harmonic Distortion (Single Harmonic)	IEEE C37.118.1-2011 / IEEE C37.118.1a-2014
3383	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Synchrophasor Measurements for Power Systems	Steady-state compliance- Phase Angle	IEEE C37.118.1-2011 / IEEE C37.118.1a-2014
3384	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Synchrophasor Measurements for Power Systems	Steady-state compliance- Signal Frequency Range	IEEE C37.118.1-2011 / IEEE C37.118.1a-2014
3385	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Synchrophasor Measurements for Power Systems	Steady-state compliance-Signal Magnitude Current	IEEE C37.118.1-2011 / IEEE C37.118.1a-2014
3386	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Telecontrol Equipment and Systems, RTUs, FRTUs, PLCs	Conformance testing as per standards IEC 60870-5-104, IEC 60870-5-101, IEC 60870-5-7, IEC 62351-3, IEC 62351-5, IEC 60870-5-601, IEC 60870-5-604, IEC 62351-100-1 & IEC 62351-100-3	IEC 60870-5-104, IEC 60870-5-101, IEC 60870-5-7, IEC 62351-3, IEC 62351-5, IEC 60870-5-601, IEC 60870-5-604, IEC 62351-100-1 & IEC 62351-100-3
3387	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Terminal blocks for copper conductors	Ageing test for screwless-type terminal blocks, Service life	IEC 60947-7-1: 2009, IEC 60947-7-2:2009
3388	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Terminal blocks for copper conductors	Flexion test	IEC 60947-7-1: 2009
3389	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Terminal blocks for copper conductors	Pull-out test	IEC 60947-7-1: 2009
3390	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Terminal blocks for copper conductors	Short time withstand current test	IEC 60947-7-1: 2009, IEC 60947-7-2:2009



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3391	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Terminal blocks for copper conductors	Temperature-rise test	IEC 60947-7-1: 2009, IEC 60947-7-2:2009
3392	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Terminal blocks for copper conductors	Test of mechanical strength of clamping units	IEC 60947-7-1: 2009
3393	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Terminal blocks for copper conductors	Verification of clearances and creepage distances	IEC 60947-7-1: 2009
3394	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Terminal blocks for copper conductors	Verification of the voltage drop	IEC 60947-7-1: 2009, IEC 60947-7-2:2009
3395	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Transfer Switches	Dielectric-properties, Routine & Sampling tests	IS/IEC 60947-1:2020, IS/IEC 60947-6-1:2021, IEC 60947-1:2020, IEC 60947-6-1: 2021
3396	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Transfer Switches	Making and breaking capacities, Tripping limits & Characteristics, Operational performance	IS/IEC 60947-1:2020, IS/IEC 60947-6-1:2021, IEC 60947-1:2020, IEC 60947-6-1: 2021
3397	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Transfer Switches	Rated making and breaking capacity test	IS/IEC 60947-1:2020, IS/IEC 60947-6-1:2021, IEC 60947-1:2020, IEC 60947-6-1: 2021
3398	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Transfer Switches	Short circuit making & breaking capacity	IS/IEC 60947-1:2020, IS/IEC 60947-6-1:2021, IEC 60947-1:2020, IEC 60947-6-1: 2021
3399	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Transfer Switches	Temperature rise	IS/IEC 60947-1:2007 RA:2017, IS/IEC 60947-6-1:2013, IEC 60947-1:2020, IEC 60947-6-1
3400	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings	Thermal and Dynamic short time current withstand test	IEC 60137 : 2017
3401	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ac Contactor	Making & Breaking tests	IEC 62271-106
3402	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ac Contactor	Making & Breaking tests	IEC 62271-106



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3403	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ac Contactor	Making & Breaking tests	IEC 62271-106
3404	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ac Contactor	Short Time current Test	IEC 62271-106
3405	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ac Contactor	Switching Tests	IEC 62271-106
3406	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ac Contactor	Switching Tests	IEC 62271-106
3407	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ac Contactor	Switching Tests	IEC 62271-106:
3408	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	AC disconnectors and Earth Switches	Induced current switching test	IS/IEC 62271-102 :2003 (Reaffirmed 2018) / IEC 62271-102
3409	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	AC disconnectors and Earth Switches	Short Time current test Induced current switching test	IS/IEC 62271-102: 2018 / IEC 62271-102:
3410	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Alloy Stranded Conductors (Aluminium- Magnesium-Silicon)	Resistance Test	Clause 12.4 of IS 398 (Part 4):1994, RA 2021
3411	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors, Aluminized Steel Reinforced	Resistance Test	Clause 12.5 of IS 398 (Part 3):1976, RA 2019
3412	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors, Galvanized Steel Reinforced	Resistance Test	Clause 13.6 of IS 398 (Part 2):1996, RA 2018
3413	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors-Galvanized Steel-Reinforced for extra high voltage (400 kV and above)	Resistance Test	Clause 13.8 of IS 398 (Part 5):1992, RA 2018



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3414	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Stranded Conductors	Resistance Test	Clause 12.5 of IS 398 (Part 1):1996 , RA 2018
3415	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductors in insulated cables	Resistance Measurement	IS 8337 : 1976 RA:2020
3416	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium conductors in insulated cables	Resistance Measurement	IS 8337 : 1976 RA:2020
3417	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Arrester Disconnector	Low current short-circuit test	IEC 60099-4: 2014
3418	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Arrester Disconnector	Time versus current curve	IEC 60099-4:2014
3419	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Auto Recloser	Basic Short circuit test duties	IEC 62271-111: 2019 / IS/IEC 62271-111
3420	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Auto Recloser	Basic Short circuit test duties	IEC 62271-111: 2019 / IS/IEC 62271-111
3421	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Busducts, Busbars, Generator nuetral busbar compartment	Short Time current test	IS 8084 – 1976 (Reaffirmed 2017) / ANSI/IEEE C37.20.2: 2015 / ANSI/IEEE C37.23
3422	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Busducts, Busbars, Generator nuetral busbar compartment	Short Time current test	IS 8084 – 1976 (Reaffirmed 2017) / ANSI/IEEE C37.20.2: 2015 / ANSI/IEEE C37.23
3423	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Carries and bases in rewirable type electric fuses for voltages upto 650V	Test for Temperature Rise	IS 2086 :1993 RA:2019
3424	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Compression and Mechanical Connectors for Power Cables	Heat Cycling Test	IEC 61238-1-1:2018 / IEC 61238-1-2:2018 / IEC 61238-1-3 :2018



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3425	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductor and Earth Wire Accessories for Over head Power Lines	Resistance Measurement	IS 2121 part 2 : 1981 RA:2018
3426	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductor and earth wire accessories for over head power lines, mid span joints and repair sleeves for conductors	Resistance Measurement and Heating Cycle Test	IS 2121 part 2 :1981 RA :2018 / IS 2121 part 4 :1991 RA:2018
3427	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductor and earthwire accessories for overhead power lines, mid span joints and repair sleeves for conductors	Resistance Measurement	IS 2121 part1 :1981 RA :2018 / IS 2121 part 2 :1981 RA :2018 / IS 2121 part 3 :1992 RA :2018 / IS 2121 part 3 :1991 RA: 2018
3428	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current transformer - Measuring Current transformers Protective current transformers Protective CT - Special Purpose	Temperature Rise Test	IS 16227 part 1:2016 / IS 16227 part 2:2016 RA:2021
3429	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformers Transformers Distribu-tion Trans- formers, Traction transformers, Potential transformers	Short Time current test Ability to withstand short circuit & all routine tests	IS 2705 part 1-4 2007, IEC 6189-2 2012, IS 3156 2007, IEC 6189-5 2001, IEC 6189-3
3430	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Current Transformers Transformers Distribu-tion Trans- formers, Traction transformers, Potential transformers	Short Time current test Ability to withstand short circuit & all routine tests	IS 2705 part 1-4 2007, IEC 61869-2 2012, IS 3156 2007, IEC 61869-5 2001, IEC 61869-3
3431	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CVT (Above 3.6kV to 420kV)	Ferro Resonance Test	IEC 61869-5
3432	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CVT (above 3.6kV to 420kV)	Short circuit withstand capability test	IEC 61869-5
3433	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	CVT (above 3.6kV to 420kV)	Short circuit withstand capability test	IEC 61869-5
3434	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Earth Switch	Making test	IEC 62271-200
3435	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electric Power connection for substations	Temperature Rise Test	ANSI/NEMA CC-1: 2018



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3436	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electric power connectors	Resistance test	IS 5561 : 2018
3437	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electric Power connectors	Short time current test	IS 5561: 2018
3438	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electrical Conductors—Connectors to use between Aluminium-to-Aluminium or Aluminium-to-Copper Bare Overhead Conductors	Temperature Rise Test	ANSI IEEE C 119.4:2022
3439	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electrical Connectors - Connectors to Use Between Aluminium - to - Aluminium Or Aluminium - to - Copper Bare Overhead Conductors	Temperature Rise Test	ANSI IEEE C 119.4:2022
3440	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electrical power connectors	Temperature rise test	IS 5561
3441	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electrical power connectors	Temperature rise test	IS 5561 : 2018
3442	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	H.V Fuse - Current limiting fuses H.V Fuse - Expulsion of similar fuses	Temperature-rise tests and power-dissipation measurement	IS 9385 (Part 1): 2018 IEC 60282-1 : 2009 / IS 9385 (Part 2) : 2018 IEC 60282-2 :2008 / IEC 60282-1 :2020 / IEC 60282-2 :2008
3443	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Hard Drawn Stranded Aluminium and Steel cored Aluminium Conductors for Over head Power Transmission Purpose Aluminium conductor for overhead transmission purposes- Aluminium conductor galvanised steel reinforced Aluminium conductor galvanised steel reinforced for extra high voltage (400kv and above)	Resistance Measurement	IS 398-1 : 1996 (RA 2018) / IS 398-2 : 1996 (RA 2018) / IS 398-5 : 1992 RA: 2018
3444	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Hard Drawn Stranded Aluminium and Steel cored Aluminium Conductors for Over head Power Transmission Purpose Aluminium conductor for overhead transmission purposes- Aluminium conductor galvanised steel reinforced Aluminium conductor galvanised steel reinforced for extra high voltage (400kv and above)	Resistance Measurement	IS 398-1 : 1996 (RA 2018) / IS 398-2 :1996 (RA 2018) / IS 398-5 :1992 RA: 2018
3445	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Back to back capacitor bank current switching tests	IS/IEC 62271-100: 2021 IEC 62271-100:2021 IEC 62271 - 101:



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3446	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Back to back capacitor bank current switching tests	IS/IEC 62271-100: 2021 IEC 62271-100:2021 IEC 62271 - 101:
3447	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Back to back capacitor bank current switching tests	IS/IEC 62271-100: 2021 IEC 62271-100:2021 IEC 62271 - 101
3448	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Back to back capacitor bank current switching tests	IS/IEC 62271-100: 2021 IEC 62271-100:2021 IEC 62271 - 101
3449	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Basic Short circuit test duties and short line fault tests - Direct test facility - Synthetic test facility	IS/IEC 62271-100: 2021 IEC 62271-100:2021 IEC 62271 - 101:2021 IEC 62271-111
3450	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Basic Short circuit test duties and short line fault tests - Direct test facility - Synthetic test facility	IS/IEC 62271-100: 2021 IEC 62271-100:2021 IEC 62271 - 101:2021 IEC 62271-111
3451	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Basic Short circuit test duties and short line fault tests - Direct test facility - Synthetic test facility	IS/IEC 62271-100: 2021 IEC 62271-100:2021 IEC 62271 - 101:2021 IEC 62271-111
3452	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Basic Short circuit test duties and short line fault tests - Direct test facility - Synthetic test facility	IS/IEC 62271-100: 2021 IEC 62271-100:2021 IEC 62271 - 101:2021 IEC 62271-111
3453	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Line/Cable charging current switching tests	IS/IEC 62271-100: 2021 IEC 62271-100
3454	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Line/Cable charging current switching tests	IS/IEC 62271-100: 2021 IEC 62271-100
3455	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Line/Cable charging current switching tests	IS/IEC 62271-100: 2021 IEC 62271-100
3456	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Line/Cable charging current switching tests	IS/IEC 62271-100: 2021 IEC 62271-100



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3457	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Mechanical operation	IEC 62271-100:2021 IEC 62271-1 : 2017 + AMD1:2021 IS/IEC 62271-1: 2007 (Reaffirmed 2018) IS/IEC 62271-100:
3458	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Out of phase making and breaking tests - Direct testing facility - Synthetic test facility	IS/IEC 62271-100: 2021 IEC 62271-100:2021 IEC 62271 - 101
3459	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Out of phase making and breaking tests - Direct testing facility - Synthetic test facility	IS/IEC 62271-100: 2021 IEC 62271-100:2021 IEC 62271 - 101
3460	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Short time current test	IS/IEC 62271-100: 2021 IEC 62271-100:2021 IS/IEC 62271-1: 2007 (Reaffirmed 2018) IEC 62271-1 : 2017 + AMD1
3461	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Single capacitor bank current switching tests	IS/IEC 62271-100: 2021 IEC 62271-100
3462	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Single capacitor bank current switching tests	IS/IEC 62271-100: 2021 IEC 62271-100
3463	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Single capacitor bank current switching tests	IS/IEC 62271-100: 2021 IEC 62271-100
3464	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Single capacitor bank current switching tests	IS/IEC 62271-100: 2021 IEC 62271-100
3465	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Small Inductive current switching tests (Transformer magnetising current)	IS/IEC 62271-100: 2021 IEC 62271-100:2021 IEC 62271- 110
3466	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	High Voltage Circuit Breakers	Small Inductive current switching tests (Transformer magnetising current)	IS/IEC 62271-100: 2021 IEC 62271-100:2021 IEC 62271- 110



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3467	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Instrument Transformers	Short Time current test	IS 2705 - part 1 :1992 (Reaffirmed 2017) IS 16227 (Part 2) : 2016(Reaffirmed Year : 2021) IEC 61869-2: 2012 IEC 61869-1: 2023 IEC 61869-3: 2011 IEC 61869-5:2011 IS/IEC 16227 part /1-2-3/2016-2016-2015
3468	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Instrument Transformers	Internal Arc test	IEC 61869-2: 2012 IEC 61869-1: 2023 IEC 61869-3: 2011
3469	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulated bushings for alternating voltages above 1000 V	Short time current tests	IS/IEC 60137:2017 / IEC 60137: 2017
3470	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulated bushings for alternating voltages above 1000 V	Temperature rise test	IS/IEC 60137:2017 / IEC 60137: 2017
3471	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulated bushings for alternating voltages above 1000 V	Tightness test	IS/IEC 60137:2017, IEC 60137: 2017
3472	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulated bushings for alternating voltages above 1000V	Temperature Rise Test	IEC 60137:2017
3473	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulator Strings	Power Arc tests	IEC 61467
3474	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulator Strings	Power Arc tests	IEC 61467
3475	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulator Strings	Power Arc tests	IEC 61467



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3476	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulator strings, Post Insulators, Railway insulators, Long rod insulators, Isolators, AB switches, Circuit Breakers, Reactors, Line Traps, Repair sleeves, Spacers, Spacer dampers, ACSR conductor and accessories rated from 3.6kV to 400kV(inclusive)	Corona inception /Extinction	IS 731:2021, IS 10162: 1982/R 2018, IS 2071-1- 2016, IS 2544 : 2006, IS 4318: 1993/R 2018, IS 398 pt. 5 1992 R 2018, ANSI c29.1 1998, ANSI C 29.2018, C29.3 /86, c29.4/84/, C29.5/84, C29.6/84, C 29.7a/86, C29.9/83, RDSO SPEC 4318, IEC 60060-1
3477	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulator strings, Post Insulators, Railway insulators, Long rod insulators, Isolators, AB switches, Circuit Breakers, Reactors, Line Traps, Repair sleeves, Spacers, Spacer dampers, ACSR conductor and accessories rated from 3.6kV to 400kV(inclusive)	Corona inception /Extinction	IS 7312006, IS 10162 2007, IS 2071 pt1 2004, IS 2544 2006, IS 4318 2003, IS 398 pt. 5 2007, ANSI c29.1 1998, ANSI C 29.2 1992, C29.3 /86, c29.4/84/, C29.5/84, C29.6/84, C 29.7a/86, C29.9/83, RDSO SPEC 4318, IEC 60060-1
3478	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Inter connecting Busbars for AC Voltage above 1kV upto and including 36kV	Temperature Rise Test	IS 8084 : 1976 RA:2017
3479	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	L V Distribution Fuse Boards	Temperature Rise Test	ESI Standard 37-2: Issue 3: Amd1:2013
3480	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Lightning Arrester	Low current short-circuit test	IEC 60099-4: 2014
3481	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Lightning Arrester	Short Circuit test	(Withdrawn)IS 3070 part-3:1993 (Reaffirmed 2019) / IS 15086-4:2017 IEC 60099-4:2014 / IEC 60099-4:2014
3482	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Lightning Arrester	Short Circuit test	IS 3070 part-3:1993 (Reaffirmed 2019) / IEC 60099-4
3483	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Lightning Arrester	Time versus current curve	IEC 60099-4:2014
3484	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Line Traps	Short Time current test	IS 8793 – 1995 (Reaffirmed 2019) / IEC 60353 : 1989/ AMD1 2002

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3485	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Line Traps	Short Time current test	IS 8793 2008, IEC 60353
3486	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Line Traps	Short Time current test	IS 8793 2008, IEC 60353
3487	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Low voltage switchgear and control-gear assemblies (Busbar Trunking system)	Short Time Current Test	IEC 61439-6:2012 / IS/IEC 61439-6
3488	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Low voltage switchgear and control-gear assemblies (Busbar Trunking system)	Short Time Current Test	IEC 61439-6:2012 / IS/IEC 61439-6
3489	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Overhead lines Requirements and Tests for Fittings	Magnetic losses test	IEC 61284:1997
3490	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Pantographs	Current Heating Tests	IEC 60494-1:2013
3491	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Pantographs	Current Heating Tests	IEC 60494-1:2013
3492	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Portable Equipment for earthing	Short Time current Test	IEC 61230
3493	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Portable Equipment for earthing	Short Time current Test	IEC 61230
3494	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Portable equipment for earthing & Discharge rod assembly	Short time current test	IEC 61230: 2008
3495	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Post Insulators	Arc Test	IEC 60168



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3496	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Power Conne-ctors ACSR conductor	Short Time current test	IS 5561
3497	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Power Conne-ctors ACSR conductor	Short Time current test	IS 5561
3498	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Power Connectors ACSR conductor	Short Time current test	IS 5561
3499	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Power Connectors ACSR conductor	Short Time current test	IS 5561
3500	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Power Connectors ACSR conductor	Short Time current test	IS 5561
3501	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Power Connectors ACSR conductor	Short Time current test	IS 5561
3502	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Power Transformers Distribution Transformers, Traction transformers	Ability to withstand short circuit & all routine tests	IS 2026 - Part 1: 2011(Reaffirmed 2021) / IS 2026 - part 2: 2010 (Reaffirmed 2020) / IS 2026 - part 5: 2011 (Reaffirmed 2016) / IS 2026 (Part 3) : 2018 IEC 60076-3:2013 / IS 2026 (Part 11) : 2021 IEC 60076-11 : 2018 / IS 1180 Part 1 : 2014 (Reaffirmed Year : 2019) / IS 1180 Part 3 : 2021 / IEC 60076-1: 2011 / IEC 60076-2: 2011 / IEC 60076-3: 2013 (Amd.1:2018) / IEC 60076-5: 2006 / IEC 60076-10: 2016 / IEC 60076-11: 2018 / IEC 60310: 2016 / ANSI :C.57.12.00-2021 / ANSI :C.57.12.90-2021



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3503	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Power Transformers Distribution Transformers, Traction transformers	Ability to withstand short circuit & all routine tests	IS 2026 - Part 1: 2011(Reaffirmed 2021) / IS 2026 - part 2: 2010 (Reaffirmed 2020) / IS 2026 - part 5: 2011 (Reaffirmed 2016) / IS 2026 (Part 3) : 2018 IEC 60076-3:2013 / IS 2026 (Part 11) : 2021 IEC 60076-11 : 2018 / IS 1180 Part 1 : 2014 (Reaffirmed Year : 2019) / IS 1180 Part 3 : 2021 / IEC 60076-1: 2011 / IEC 60076-2: 2011 / IEC 60076-3: 2013 (Amd.1:2018) / IEC 60076-5: 2006 / IEC 60076-10: 2016 / IEC 60076-11: 2018 / IEC 60310: 2016 / ANSI :C.57.12.00-2021 / ANSI :C.57.12.90-2021
3504	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Power Transformers Distribution Transformers, Traction transformers	Loss Measurement	IS 2026 - Part 1:2011 (Reaffirmed 2021) / IEC 60076 -1
3505	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Prefabricated substation	Arcing due to Internal faults	IEC-62271-202:2022 IS/IEC 62271-202
3506	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Prefabricated substation	Short Time current Test	IEC-62271-202:2022 IS/IEC 62271-202
3507	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Prefabricated substation	Short Time current Test	IEC-62271-202:2022 IS/IEC 62271-202
3508	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Prefabricated Substation/Compact Substation	Determination of sound levels	IEC 62271-202: 2022
3509	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Prefabricated Substation/Compact Substation	Mechanical Impact	IEC 62271-202: 2022
3510	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Prefabricated Substation/Compact Substation	Short time current tests	IEC 62271-202: 2022

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3511	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Prefabricated Substation/Compact Substation	Temperature rise test	IEC 62271-202: 2022
3512	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Reactors	Short Time current test	IS 2026 : Part 6 : 2017 : IEC 60076-6 : 2007 / IEC 60076-6
3513	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Reactors	Short Time current test	IS 2026 : Part 6 : 2017 : IEC 60076-6 : 2007 / IEC 60076-6
3514	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Voltage transformers – Measuring voltage transformers Capacitor Voltage Transformers, Upto132KV , 450mA	Temperature Rise Test	IS 3156 part 1 2007, IS 3156 part 2 2007, IS 3156 part 3 2007, IS 3156 part 4
3515	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Voltage transformers – Measuring voltage transformers Capacitor Voltage Transformers, Upto132KV , 450mA	Temperature Rise Test	IS 3156 part 1, 2007, IS 3156 part 2 2007, IS 3156 part 3 2007, IS 3156 part 4
3516	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Deep freezers	Energy Consumption test	Cl.11.2 of IS 7872-2020
3517	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Deep Freezers	No load pull down test	Cl.11.1 of IS 7872-2020
3518	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Deep Freezers	Percentage run test	Cl.3.6 of IS 7872-2020
3519	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Direct Cool Frost Free Frost Free And Direct Cool Deep freezers	Specific test performed Gross and Storage Volume Cl. 8.0 Pull Down Test Cl. 14.5 Energy Consumption Cl 14.9 Ice- Making test Cl 14.6 Gross and Storage Volume Cl. 5.0 Pull Down Test Cl 16 Energy Consumption Cl 14 Ice- Making test Cl 17.0 4 APPLICABLE TEST STEPS FOR DETERMINATION OF ENERGY AND VOLUME 4.6 a Annex A- pull down test 5 TARGET TEMPERATURES FOR ENERGY DETERMINATION 6 DETERMINATION OF ENERGY CONSUMPTION Volume measurement Cl.4.8 Energy Consumption test Cl.11.2 No load pull down	IS 1476 : PART 1 : 2000 (REAFFIRMED 2021) BEE schedules and Gazette notifications IS 15750 : 2006 (REAFFIRMED 2017) BEE schedules and Gazette notifications IS 17550(Part-1, Part-2, Part-3)-2021 BEE schedules and Gazette notifications IS 7872-2020 BEE schedules and Gazette notifications

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3520	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Direct Cool	Gross and Storage Volume Cl. 8.0 Pull Down Test Cl. 14.5 Energy Consumption Cl 14.9 Ice- Making test Cl 14.6	IS 1476 : PART 1 : 2000 (REAFFIRMED 2021)
3521	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Direct cool Refrigerator	Gross and Storage Volume	Cl.8 of IS 1476 - RART 1 : 2000, RA- 2021
3522	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Direct cool Refrigerator	Pull Down Test, Energy Consumption Ice, Making test	Cl.14.5 of IS 1476(Part-1):2000 RA-2021, Cl.14.9 of IS 1476(Part-1):2000 RA-2021, Cl.14.6 of IS 1476(Part-1):2000 RA-2021
3523	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Frost Free	Gross and Storage Volume Cl. 5.0 Pull Down Test Cl 16 Energy Consumption Cl 14 Ice- Making test Cl 17.0	IS 15750 : 2006 (REAFFIRMED 2017)
3524	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Frost Free Refrigerator	Energy Consumption	Cl.14 of IS 15750-2006
3525	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Frost Free Refrigerator	Ice making Test	Cl.17 of IS 15750-2006 RA -2017
3526	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Frost Free Refrigerator	Pull down Test	Cl.16 of IS 15750-2006 RA 2017
3527	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Frost Free Refrigerator	Rated Gross and Storage Volume	Cl.5 of Is 15750-2006 RA-2017
3528	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Frost Free, Direct Cool	Energy Consumption, Pull Down test, Ice making test and volume measurement test	IS 17550:PART 2:2021
3529	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Refrigerator Appliances	Pull down test	Cl.4.6 and Cl.4.7 of IS 17550(Part-1, Part-2,Part-3), -2021
3530	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Refrigerator Appliance	Volume measurement	Cl.4.8 of IS 17550(Part-1, Part-2, Part-3)-2021
3531	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Split type Air conditioner	Capacity rating test	Cl.9.9 of Is 1391(Part-2)-2018
3532	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Split type Air Conditioner	Maximum operating conditions test	Cl.9.4 of IS 1391(Part-2)-2018



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3533	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Split type Air Conditioner	Power Consumption test for cooling	Cl.9.7 of IS 1391(Part-2)-2018
3534	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Split- type	Capacity Rating Test (Cl.9.9) Power Consumption Test for Cooling (Cl.9.7) Maximum Operating Conditions Test (Cl.9. 4	IS 1391 : PART 2 : 2018 : ROOM AIR CONDITIONERS - SPECIFICATION - PART 2 SPLIT AIR CONDITIONERS
3535	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Window/ Unitary type Split- type	Capacity Rating Test (Cl.10.10) Power Consumption Test for Cooling (Cl.10.8) Maximum Operating Conditions Test (Cl.10.4) Capacity Rating Test (Cl.9.9) Power Consumption Test for Cooling (Cl.9.7) Maximum Operating Conditions Test (Cl.9. 4	IS 1391 : PART 1 : 2023 ROOM AIR CONDITIONERS - PART 1 UNITARY AIR CONDITIONERS, BEE schedules and Gazette notifications IS 1391 : PART 2 : 2023 ROOM AIR CONDITIONERS - SPECIFICATION - PART 2 SPLIT AIR CONDITIONERS BEE schedules and Gazette notifications
3536	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Window/ Unitary type	Capacity Rating Test (Cl.10.10) Power Consumption Test for Cooling (Cl.10.8) Maximum Operating Conditions Test (Cl.10.4)	IS 1391 : PART 1 : 2017 : ROOM AIR CONDITIONERS - PART 1 UNITARY AIR CONDITIONERS
3537	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Window/Unitary Type Air Conditioner	Capacity Rating test	Cl.10.10 of IS 1391(Part-1)- :2017
3538	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Window/Unitary Type Air conditioner	Maximum operating conditions test	Cl.10.4 of IS 1391(Part-1)-2017
3539	MECHANICAL- HEATING, VENTILATING, AND AIR CONDITIONING(HVAC)	Window/Unitary Type Air Conditioner	Power Consumption test for cooling	Cl.10.8 of IS 1391(Part-1)-2017
3540	MECHANICAL- MECHANICAL PROPERTIES OF METALS	"Conductors for overhead lines â€" Round wire concentric lay stranded conductors"	Elongation	BS EN 50182:2001Clause 6.5.2
3541	MECHANICAL- MECHANICAL PROPERTIES OF METALS	"Conductors for overhead lines â€" Round wire concentric lay stranded conductors"	Stress at 1% extension	BS EN 50182:2001Clause 6.5.2
3542	MECHANICAL- MECHANICAL PROPERTIES OF METALS	"Conductors for overhead lines â€" Round wire concentric lay stranded conductors"	Tensile strength	BS EN 50182:2001Clause 6.5.2
3543	MECHANICAL- MECHANICAL PROPERTIES OF METALS	"Conductors for overhead lines â€" Round wire concentric lay stranded conductors"	Welding of aluminium wires	BS EN 50182:2001Clause 6.5.3



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3544	MECHANICAL- MECHANICAL PROPERTIES OF METALS	"Conductors for overhead lines â€" Round wire concentric lay stranded conductors"	Wrapping test	BS EN 50182:2001Clause 6.5.2
3545	MECHANICAL- MECHANICAL PROPERTIES OF METALS	"Conductors for overhead lines â€" Round wire concentric lay stranded conductors"	Diameter	BS EN 50182:2001Clause 6.5.2
3546	MECHANICAL- MECHANICAL PROPERTIES OF METALS	"Conductors for overhead lines Round wire concentric lay stranded conductors"	Resistivity	BS EN 50182:2001Clause 6.5.2
3547	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aeolian vibration dampers	Verification of dimensions, mass	Clause 7.2 of IEC 61897:2020
3548	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes	Breaking Load Test - Tensile	Clause 12.3 of IS 398 (Part 1): 1996, RA 2018
3549	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes	Breaking Load Test - Tensile	Clause 13.3 of IS 398 (Part 2): 1996, RA 2018
3550	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors, Galvanized Steel Reinforced	Surface Condition Test	Clause 13.9 of IS 398 (Part 2):1996, RA 2018
3551	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Alloy Stranded Conductors (Aluminium- Magnesium-Silicon Type)	Breaking Load Test	Clause 12.2 of IS 398 (Part 4):1994, RA 2021
3552	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Alloy Stranded Conductors (Aluminium- Magnesium-Silicon Type)	Elongation Test	Clause 12.3 of IS 398 (Part 4):1994, RA 2021
3553	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors - Galvanized Steel - Reinforced for extra high voltage (400 kV and above)	Breaking Load Test on individual wires	Clause 13.5.2 of IS 398 (Part 5):1992, RA 2018
3554	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors, Aluminized Steel Reinforced	Breaking Load Test	Clause 12.2 of IS 398 (Part 3):1976, RA 2019
3555	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors, Aluminized Steel Reinforced	Ductility Test	Clause 12.3 of IS 398 (Part 3):1976, RA 2019
3556	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors, Aluminized Steel Reinforced	Wrapping Test	Clause 12.4 of IS 398 (Part 3):1976, RA 2019
3557	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors, Galvanized Steel Reinforced	Breaking Load Test	Clause 13.3 of IS 398 (Part 2):1996, RA 2018



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3558	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors, Galvanized Steel Reinforced	Ductility Test	Clause 13.4 of IS 398 (Part 2):1996, RA 2018
3559	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors, Galvanized Steel Reinforced	Galvanizing Test	Clause 13.7 of IS 398 (Part 2):1996, RA 2018
3560	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors, Galvanized Steel Reinforced	Measurement of diameter of individual aluminium and steel wires	Clause 13.2 of IS 398 (Part 2):1996, RA 2018
3561	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors, Galvanized Steel Reinforced	Measurement of Lay Ratio	Clause 13.8 of IS 398 (Part 2):1996, RA 2018
3562	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors, Galvanized Steel Reinforced	Stress-Strain Test	Clause 13.11 of IS 398 (Part 2):1996, RA 2018
3563	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors, Galvanized Steel Reinforced	Test for Ultimate Breaking Load on Stranded Conductor	Clause 13.10 of IS 398 (Part 2):1996, RA 2018
3564	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors, Galvanized Steel Reinforced	Wrapping Test	Clause 13.5 of IS 398 (Part 2):1996, RA 2018
3565	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors-Galvanized Steel-Reinforced for extra high voltage (400 kV and above)	Breaking Load Test on Complete Conductor	Clause 13.5.1 of IS 398 (Part 5):1992, RA 2018
3566	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors-Galvanized Steel-Reinforced for extra high voltage (400 kV and above)	Ductility Test	Clause 13.6 of IS 398 (Part 5):1992, RA 2018
3567	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors-Galvanized Steel-Reinforced for extra high voltage (400 kV and above)	Galvanizing Test	Clause 13.9 of IS 398 (Part 5):1992, RA 2018
3568	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors-Galvanized Steel-Reinforced for extra high voltage (400 kV and above)	Measurement of Diameters of Individual Aluminium and Steel wires	Clause 13.3 of IS 398 (Part 5):1992, RA 2018
3569	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors-Galvanized Steel-Reinforced for extra high voltage (400 kV and above)	Measurement of Lay Ratio	Clause 13.4 of IS 398 (Part 5):1992, RA 2018
3570	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors-Galvanized Steel-Reinforced for extra high voltage (400 kV and above)	Surface Condition Test	Clause 13.10 of IS 398 (Part 5):1992, RA 2018
3571	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors-Galvanized Steel-Reinforced for extra high voltage (400 kV and above)	Visual examination	Clause 13.2 of IS 398 (Part 5):1992, RA 2018



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3572	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Conductors-Galvanized Steel-Reinforced for extra high voltage (400 kV and above)	Wrapping Test	Clause 13.7 of IS 398 (Part 5):1992, RA 2018	
3573	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Stranded Conductors	Breaking Load Test	Clause 12.3 of IS 398 (Part 1):1996, RA 2018	
3574	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Stranded Conductors	Measurement of Diameter of Individual Aluminium Wires	Clause 12.2 of IS 398 (Part 1):1996, RA 2018	
3575	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Stranded Conductors	Measurement of Lay Ratio, Direction of Lay	Clause 12.6 of IS 398 (Part 1):1996, RA 2018	
3576	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Conductors for Overhead Transmission Purposes - Aluminium Stranded Conductors	Wrapping Test	Clause 12.4 of IS 398 (Part 1):1996, RA 2018	
3577	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Composite hollow insulators - pressurized and unpressurized insulators greater than 1000 V	Bending Test	Clause 8.5 of IEC 61462:2023	
3578	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Composite insulators used in type testing of cable systems (for rated voltages above 150 kV (Um = 170 kV) up to 500 kV (Um = 550 kV))	Bending Test	IEC 62067:2022 Clause 7.2, Annex H.5.2.3	
3579	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Composite Insulators used in type testing of cable systems (Rated Voltage > 30 kV and up to 150 kV)	Bending Test	IEC 60840:2020/AMD1:2023 Clause 7.2, Annex H.5.2.3	
3580	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Composite Line Post Insulator greater than 1000 V	Cantilever Failing Load	Clause 11.2.1 of IEC 61952:2008	
3581	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Compression and Mechanical connectors for rated voltages up to 30 kV	Mechanical Test	Clause 7 of IEC 61238-1	
3582	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Concentric lay stranded overhead electrical conductors containing one or more gap (s)	Breaking Strength of Conductor	Clause 6.2.5 of IEC 62420:2008	
3583	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Concentric lay stranded overhead electrical conductors containing one or more gap (s)	Breaking strength of wires after stranding	Clause 6.3.6 of IEC 62420:2008	
3584	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Concentric lay stranded overhead electrical conductors containing one or more gap (s)	Lay Ratio and Direction of lay	Clause 6.3.5 of IEC 62420:2008	
3585	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Concentric lay stranded overhead electrical conductors containing one or more gap (s)	Linear mass and cross sectional area	Clause 6.3.3 of IEC 62420:2008	



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3586	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Concentric lay stranded overhead electrical conductors containing one or more gap (s)	Overall Diameter	Clause 6.3.2 of IEC 62420:2008
3587	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Concentric lay stranded overhead electrical conductors containing one or more gap (s)	Stress-Strain Test	Clause 6.2.4 of IEC 62420:2008
3588	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Concentric lay stranded overhead electrical conductors containing one or more gap (s)	Surface Condition	Clause 6.3.4 of IEC 62420:2008
3589	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors and Earth Wire Accessories for Over Head Power Lines – Mid Span Joints & Connectors	Mechanical Failing Load Test – Tensile	Clause 6.4 of IS 2121 (Part II): 1981 RA 2018
3590	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors and Earth Wire Accessories for overhead Power Lines - Armor Rod	Slip Strength Test	Clause 7.7 of IS 2121 (Part I):1981, RA 2018
3591	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors and Earth Wire Accessories for overhead Power Lines - Armor Rod for Conductors	Tensile Strength Test	Clause 7.4 of IS 2121 (Part I):1981, RA 2018
3592	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors and Earth Wire Accessories for Overhead Power Lines - Mid Span Joint & Repair Sleeves for Conductors	Failing Load Test	Clause 6.4 of IS 2121 (Part II):1981, RA 2018
3593	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors and Earth Wire Accessories for overhead Power Lines - Suspension & Tension Clamp	Slip Strength Test	Clause 5.4 of IS 2121 (Part III):1992, RA 2018
3594	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines - Round Wire Concentric lay stranded conductors	Conductor Diameter	Clause 6.4.2 of BS EN 50182:2001
3595	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines - Round Wire Concentric lay stranded conductors	Inertness	Clause 6.4.3 of BS EN 50182:2001
3596	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines - Round Wire Concentric lay stranded conductors	Lay Ratio and Direction of Lay	Clause 6.4.4 of BS EN 50182:2001
3597	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines - Round Wire Concentric lay stranded conductors	Number and Type of Wire and Mass per unit length	Clause 6.4.5, 6.4.6 of BS EN 50182:2001
3598	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines - Round Wire Concentric lay stranded conductors	Stress-Strain Test	Clause 6.4.7 of BS EN 50182:2001
3599	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines - Round Wire Concentric lay stranded conductors	Surface Condition Test	Clause 6.4.1 of BS EN 50182:2001



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3600	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines - Round Wire Concentric lay stranded conductors	Tensile Breaking Strength	Clause 6.4.8 of BS EN 50182:2001
3601	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines - Zinc coated steel wires	Visual test	BS EN 50189:2000 Clause 11.1
3602	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines — Round wire concentric lay stranded conductors	Diameter	BS EN 50182:2001 Clause 6.5.2
3603	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines — Round wire concentric lay stranded conductors	mass of zinc coating, zinc dip test, adhesion of zinc coating, elongation or torsion test, wrapping test	BS EN 50182:2001 Clause 6.5.2
3604	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines — Round wire concentric lay stranded conductors	Tensile strength	BS EN 50182:2001Clause 6.5.2
3605	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines — Zinc coated steel wires	Adherence of zinc coating	BS EN 50189:2000 Clause 11.7
3606	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines — Zinc coated steel wires	Diameter	BS EN 50189:2000 Clause 11.2
3607	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines — Zinc coated steel wires	Ductility Test	BS EN 50189:2000 Clause 11.5
3608	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines — Zinc coated steel wires	Mass of zinc coating	BS EN 50189:2000 Clause 11.6
3609	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines — Zinc coated steel wires	Stress at 1% extension	BS EN 50189:2000 Clause 11.3
3610	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines — Zinc coated steel wires	Tensile strength	BS EN 50189:2000 Clause 11.4
3611	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductors for overhead lines — Zinc coated steel wires	Uniformity of zinc coating	BS EN 50189:2000 Clause 11.8
3612	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Coupling Capacitors	Cantilever Test	Clause 16 of IEC 60358-1:2012
3613	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Covered conductors for overhead lines and the related accessories for rated voltages above 1 kV AC and not exceeding 36 kV AC	Slippage Test	BS EN 50397-1:2020 Annex C



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3614	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Electric Power Connectors	Pull Out Strength Test	Clause 11 of IS 5561: 2018		
3615	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Hollow pressurized and unpressurized ceramic and glass insulators greater than 1000 V	Bending Test	Clause 8.3 of IEC 62155:2003		
3616	MECHANICAL- MECHANICAL PROPERTIES OF METALS	I & V Suspension Tension String Up to & Including 800 kV Rating	Mechanical Strength Test	Power Grid Specifications		
3617	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor and Out Door Ceramic Post Insulators greater than 1000 V	Mechanical Failing Load Test - Bending	Clause 5.2.4 of IEC 60168: 2001		
3618	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor and Out Door Ceramic Post Insulators greater than 1000 V	Mechanical Failing Load Test - Compression	Clause 5.2.7 of IEC 60168: 2001		
3619	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor and Out Door Ceramic Post Insulators greater than 1000 V	Mechanical Failing Load Test - Tensile	Clause 5.2.6 of IEC 60168: 2001		
3620	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor and Outdoor Porcelain Post Insulators and Post Insulator Units for voltages greater than 1000 V	Mechanical Strength Test (Bending)	Clause 3.2 of IS 5350 (Part 1):1970, RA 2019		
3621	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor and Outdoor Porcelain Post Insulators and Post Insulator Units for voltages greater than 1000 V	Mechanical Strength Test (Compression)	Clause 3.2 of IS 5350 (Part 1):1970, RA 2019		
3622	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor and Outdoor Porcelain Post Insulators and Post Insulator Units for voltages greater than 1000 V	Mechanical Strength Test (Tension)	Clause 3.2 of IS 5350 (Part I):1970, RA 2019		
3623	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor and Outdoor Post Insulators of Ceramic or Glass material for systems with nominal voltage greater than 1000 V	Mechanical Failing Load Test - Torsion	Clause 5.2.5 of IEC 60168:2001		
3624	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor Post Insulators of Organic Material greater than 1000 V up to and including 300 kV	Bending Test	Clause 9.6.5 of IS 9431:1979, RA 2019		
3625	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor Post Insulators of Organic material greater than 1000 V up to and including 300 kV	Tensile or Compressive Test	Clause 9.6.7 of IS 9431:1979, RA 2019		
3626	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor Post Insulators, Organic material greater than 1000 V up to and including 300 kV	Mechanical Routine Load Test - Compression	Clause 5.3 of IEC 60660: 1999		
3627	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor Post Insulators, Organic material greater than 1000 V up to and including 300 kV	Mechanical Routine Load Test - Tensile	Clause 5.3 of IEC 60660: 1999		


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3628	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor Post Insulators, Organic material greater than 1000 V up to and including 300 kV	Mechanical Routine Test - Bending	Clause 5.3 of IEC 60660: 1999
3629	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor Post Insulators, Organic material greater than 1000 V up to and including 300 kV	Mechanical Strength Test - Bending	Clause 9.6.5 of IS 9431: 1979, RA 2019
3630	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor Post Insulators, Organic material greater than 1000 V up to and including 300 kV	Mechanical Strength Test - Compression	Clause 9.6.7 of IS 9431: 1979, RA 2019
3631	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor Post Insulators, Organic material greater than 1000 V up to and including 300 kV	Mechanical Strength Test – Tensile	Clause 9.6.7 of IS 9431: 1979, RA 2019
3632	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Indoor Post Insulators, Organic material greater than 1000 V up to and including 300 kV	Torsion Test	Clause 9.6.6 of IS 9431:1979, RA 2019
3633	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Instrument Transformer	Mechanical Test	Clause 7.2.10 of IEC 61869-1:2023
3634	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Insulated bushings for alternating voltages above 1000 V	Cantilever load withstand test	Clause 8.10 of IEC 60137:2017
3635	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Insulator & Insulator Strings of Single/ Twin/Triple/ Quad- Tension or Suspension type upto & including 800 kV Rating	Mechanical test/ Mechanical Performance test	Clause 19 of IEC 60383-1: 2023
3636	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Insulators for overhead lines - Composite suspension and tension insulators with a nominal voltage greater than 1000 V	Assembled core load-time tests	Clause 10.4 of IEC 61109:2008
3637	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Insulators for overhead lines - Composite suspension and tension insulators with a nominal voltage greater than 1000 V	Damage limit proof test and test of the tightness of the interface between end fittings and insulator housing	Clause 11.2 of IEC 61109:2008
3638	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulators for Overhead Power Lines with Nominal Voltage greater than 1000 V	Galvanizing Test	Clause 9.4 of IS 2486 (Part 1):1993, RA 2018
3639	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulators for Overhead Power Lines with Nominal Voltage greater than 1000 V	Visual examination and Verification of dimensions	Clause 5 & 8 of IS 2486 (Part 1): 1993, RA 2018
3640	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal Fittings of Suspension Clamps and Insulator String Fittings with Nominal Voltage greater than 1000 V	Mechanical Strength Tests (Tensile)	Clause 11.2 of IS 2486 (Part 1):1993, RA 2018
3641	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal Fittings of Suspension Clamps, Bolted type Tension Clamps and Compression type Clamps with Nominal Voltage greater than 1000 V	Slip Strength Test	Clause 11.1 of IS 2486 (Part 1):1993, RA 2018



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3642	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal Fittings Suspension, Clamps, Bolted Tension, Compression, Joint other than Tee Joint & Insulator String Fittings greater than 1000 V	Mechanical Strength Test – Tensile	Clause 11 of IS 2486 (Part 1): 1993, RA 2018
3643	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Out Door Post Insulator greater than 1000 V	Mechanical failing Load Test - Compressive	Clause 3.1 of IS 5350 (Part III) : 1971
3644	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Out Door Post Insulator greater than 1000 V	Mechanical failing Load Test – Tension	Clause 3.1 of IS 5350 (Part III) : 1971
3645	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Out Door Post Insulator greater than 1000 V	Mechanical failing Load Test – Underhung	Clause 3.1 of IS 5350 (Part III) : 1971
3646	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Out Door Post Insulator greater than 1000 V	Mechanical failing Load Test - Upright	Clause 3.1 of IS 5350 (Part III) : 1971
3647	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Outdoor Pedestal Post Insulators greater than 1000 V	Mechanical Failing Load - Underhung	Clause 3 of IS 5350 (Part III):1971, RA 2019
3648	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Outdoor Pedestal Post Insulators greater than 1000 V	Mechanical Failing Load Test - Compressive	Clause 3 of IS 5350 (Part III):1971, RA 2019
3649	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Outdoor Pedestal Post Insulators greater than 1000 V	Mechanical Failing Load Test - Tension	Clause 3 of IS 5350 (Part III):1971, RA 2019
3650	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Outdoor Pedestal Post Insulators greater than 1000 V	Mechanical Failing Load Test - Torsion	Clause 3 of IS 5350 (Part III):1971, RA 2019
3651	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Outdoor Pedestal Post Insulators greater than 1000 V	Mechanical Failing Load Test - Upright	Clause 3 of IS 5350 (Part III):1971, RA 2019
3652	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Pin & Post Insulators, String Insulator units for overhead Lines above 1000 V	Mechanical Failing Load Test – Tensile	Clause 19 of IEC 60383-1: 1993
3653	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Porcelain Guy Strain Insulators greater than 1000 V	Mechanical Strength Test - Compressive	Clause 7.4 of IS 5300:1969, RA 2019
3654	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Porcelain Insulator String greater than 1000 V	Mechanical Failing Load Test	Clause 10.8 of IS 731 : 1971, RA 2021
3655	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Porcelain Insulator String greater than 1000 V	Twenty-four Hours Mechanical Test (excluding power frequency routine test)	Clause 10.9.1 of IS 731:1971, RA 2021



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3656	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Porcelain insulators for oil filled terminations used in type testing of cable systems (for rated voltages above 150 kV ($Um = 170 \text{ kV}$) up to 500 kV ($Um = 550 \text{ kV}$))	Cantilever load withstand test	IEC 62067:2022 Clause 7.2, Annex H.5.1.3
3657	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Porcelain Insulators greater than 1000 V	Mechanical Failing Load - Bending	Clause 10.8.2 of IS 731 : 1971
3658	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Porcelain insulators used in type testing of cable systems (Rated voltage above 30 kV and up to 150 kV)	Cantilever load withstand test	IEC 60840:2020/AMD1:2023 Clause 7.2, Annex H.5.1.3
3659	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Porcelain Insulators with a Nominal Voltage up to and including 1000 V	Mechanical Failing Load Test	Clause 8.9 of IS 1445:1977, RA 2019
3660	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Power Connectors	Pull out Strength Test	Clause 11 of IS 5561:2018
3661	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Round Wire Concentric lay overhead electrical stranded conductors	Conductor Diameter	Clause 6.6.2 of IEC 61089:1991 / AMD 1:1997
3662	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Round Wire Concentric lay overhead electrical stranded conductors	Lay Ratio & Direction of Lay	Clause 6.6.6 of IEC 61089:1991 / AMD 1:1997
3663	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Round Wire Concentric lay overhead electrical stranded conductors	Linear Density and cross sectional area	Clause 6.6.3 of IEC 61089:1991 / AMD 1:1997
3664	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Round Wire Concentric lay overhead electrical stranded conductors	Stress-Strain Test	Clause 6.5.1 of IEC 61089:1991 / AMD 1:1997
3665	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Round Wire Concentric lay overhead electrical stranded conductors	Surface Condition	Clause 6.6.5 of IEC 61089:1991 / AMD 1:1997
3666	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Round Wire Concentric lay overhead electrical stranded conductors	Tensile Test of the Conductor	Clause 6.5.3 of IEC 61089:1991 / AMD 1:1997
3667	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Spacers and Spacer Dampers for Twin Horizontal Bundle Conductors	Assembly Torque Test	Clause 5.8 of IS 10162:1982, RA 2018
3668	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Spacers and Spacer Dampers for Twin Horizontal Bundle Conductors	Clamp Bolt Torque Test	Clause 5.7 of IS 10162:1982, RA 2018
3669	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Spacers and Spacer Dampers for Twin Horizontal Bundle Conductors	Clamp Slip Test	Clause 5.5 of IS 10162:1982, RA 2018



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MECHANICAL- MECHANICAL PROPERTIES OF METALS	Spacers and Spacer Dampers for Twin Horizontal Bundle Conductors	Compression & Pull off Test	Clause 5.10 of IS 10162:1982, RA 2018
MECHANICAL- MECHANICAL PROPERTIES OF METALS	Spacers and Spacer Dampers for Twin Horizontal Bundle Conductors	Movement Test	Clause 5.4 of IS 10162:1982, RA 2018
MECHANICAL- MECHANICAL PROPERTIES OF METALS	Spacers and Spacer Dampers for Twin Horizontal Bundle Conductors	Resilience Test	Clause 5.6 of IS 10162:1982, RA 2018
MECHANICAL- MECHANICAL PROPERTIES OF METALS	Spacers and Spacer Dampers for Twin Horizontal Bundle Conductors	Tensile Load Test	Clause 5.9 of IS 10162:1982, RA 2018
MECHANICAL- MECHANICAL PROPERTIES OF METALS	Spacers and Spacer Dampers for Twin Horizontal Bundle Conductors	Visual examination and Verification of dimensions	Clause 5.2, 5.3 of IS 10162:1982, RA 2018
MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Mono Poles	Mechanical Strength Test / Load Test	IEC 60652: 2021
MECHANICAL- MECHANICAL PROPERTIES OF METALS	Steel Mono Poles	Mechanical Strength Test / Load Test	IS 802 (Part-III): 1978, RA 2017
MECHANICAL- MECHANICAL PROPERTIES OF METALS	String Insulator Units for overhead Lines above 1000 V	Verification of Axial and radial Displacements	Clause 21 of IEC 60383-1: 1993
MECHANICAL- MECHANICAL PROPERTIES OF METALS	String Insulator Units	Mechanical Performance Test - Tensile	Clause 4 of IEC 60575: 1977
MECHANICAL- MECHANICAL PROPERTIES OF METALS	String Insulator Units Glass or Ceramic Material	Residual Strength Test - Tensile	Clause 4.5 of IEC 60797: 1984
MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Determination of Uniformity of Galvanizing Coating	Clause 9.2 of IS 4759: 1996, RA 2021
MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Mass of Galvanized Coating	Clause 9.2 of IS 4759: 1996, RA 2021
MECHANICAL- MECHANICAL PROPERTIES OF METALS	Structural Steel	Tensile Test – Upper Yield (ReH), Tensile Strength (Rm) & % Elongation (A)	IS 1608 (Part 1): 2022 / ISO 6892-1: 2016
MECHANICAL- MECHANICAL PROPERTIES OF METALS	Transmission line Towers	Mechanical Strength Test / Load Test	IEC 60652: 2021
	Discipline / Group MECHANICAL-	Discipline / GroupMaterials or Products testedMECHANICAL- MECHANICAL PROPERTIESSpacers and Spacer Dampers for Twin Horizontal Bundle ConductorsMECHANICAL- MECHANICAL PROPERTIESSpacers and Spacer Dampers for Twin Horizontal Bundle ConductorsOF METALSSpacers and Spacer Dampers for Twin Horizontal Bundle ConductorsMECHANICAL- MECHANICAL PROPERTIESSpacers and Spacer Dampers for Twin Horizontal Bundle ConductorsOF METALSSpacers and Spacer Dampers for Twin Horizontal Bundle ConductorsOF METALSSpacers and Spacer Dampers for Twin Horizontal Bundle ConductorsOF METALSSteel Mono PolesOF METALSSteel Mono PolesOF METALSSteel Mono PolesOF METALSString Insulator Units for overhead Lines above 1000 V OF METALSMECHANICAL- MECHANICAL PROPERTIESString Insulator UnitsMECHANICAL- MECHANICAL PROPERTIESString Insulator Units Glass or Ceramic Material OF METALSMECHANICAL- MECHANICAL PROPERTIESStructural SteelOF METALSStructural SteelOF METALSStructural SteelOF METALSStructural SteelOF METALSStructural SteelOF METALSStructural SteelOF METALSStructural Steel </td <td>Discipline / Group Materials or Products tested Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests MECHANICAL PROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Compression & Pull off Test MECHANICAL PROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Movement Test MECHANICAL PROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Movement Test MECHANICAL PROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Resilience Test MECHANICAL-MECHANICAL-MECHANICAL-MECHANICAL-ROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Visual examination and Verification of dimensions MECHANICAL-MECHANICAL-ROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Visual examination and Verification of Advisors MECHANICAL-MECHANICAL-ROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Visual examination and Verification of Advisors MECHANICAL-MECHANICAL-MECHANICAL-ROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Visual examination and Verification of Advisors MECHANICAL-MECHANICAL-MECHANICAL-MECHANICAL-MECHANICAL-MECHANICAL-MECHANICAL-MECH</td>	Discipline / Group Materials or Products tested Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests MECHANICAL PROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Compression & Pull off Test MECHANICAL PROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Movement Test MECHANICAL PROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Movement Test MECHANICAL PROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Resilience Test MECHANICAL-MECHANICAL-MECHANICAL-MECHANICAL-ROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Visual examination and Verification of dimensions MECHANICAL-MECHANICAL-ROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Visual examination and Verification of Advisors MECHANICAL-MECHANICAL-ROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Visual examination and Verification of Advisors MECHANICAL-MECHANICAL-MECHANICAL-ROPERTIES Spacers and Spacer Dampers for Twin Horizontal Bundle Or METALS Visual examination and Verification of Advisors MECHANICAL-MECHANICAL-MECHANICAL-MECHANICAL-MECHANICAL-MECHANICAL-MECHANICAL-MECH



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3684	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Transmission line Towers	Mechanical Strength Test / Load Test	IS 802 (Part III): 1978, RA 2017
3685	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Tubular Steel Poles for Overhead Power Lines	Mechanical Strength Test	IS 2713 (Parts I to III): 1980, RA 2017
3686	MECHANICAL- NOISE & VIBRATION	Aeolian vibration dampers	Clamp bolt tightening test	Clause 7.7 of IEC 61897:2020
3687	MECHANICAL- NOISE & VIBRATION	Aeolian vibration dampers	Damper characteristic test	Clause 7.11.2.1 of IEC 61897:2020
3688	MECHANICAL- NOISE & VIBRATION	Aeolian vibration dampers	Damper effectiveness evaluation	Clause 7.11.3.2 of IEC 61897:2020
3689	MECHANICAL- NOISE & VIBRATION	Aeolian vibration dampers	Damper fatigue test	Clause 7.12 of IEC 61897:2020
3690	MECHANICAL- NOISE & VIBRATION	Aeolian vibration dampers	Visual Examination	Clause 7.1 of IEC 61897:2020
3691	MECHANICAL- NOISE & VIBRATION	Insulator & Insulator Strings of Single/ Twin/Triple/ Quad- Tension or Suspension type upto & including 800 kV Rating	Fatigue/ Vibration Test	CPRI Test Method MED/TM-01, Issue No. 01, Issue Date 06.05.2019, Rev 00
3692	MECHANICAL- NOISE & VIBRATION	Overhead lines - Requirements and tests for spacers	Clamp Bolt Tightening Test	Clause 7.5.2.4 of IEC 61854:2020
3693	MECHANICAL- NOISE & VIBRATION	Overhead lines - Requirements and tests for spacers	Torsional Slip Test	Clause 7.5.1.3 of IEC 61854:2020
3694	MECHANICAL- NOISE & VIBRATION	Overhead lines - Requirements and tests for spacers	Visual examination	Clause 7.1 of IEC 61854:2020
3695	MECHANICAL- NOISE & VIBRATION	Overhead Lines Rigid Spacers, Flexible Spacers & Spacer Dampers	Aeolian Vibration test	Clause 7.5.6.3 of IEC 61854:2020
3696	MECHANICAL- NOISE & VIBRATION	Overhead Lines Rigid Spacers, Flexible Spacers & Spacer Dampers	Log Decrement Test	Clause 7.5.4 c of IEC 61854:2020
3697	MECHANICAL- NOISE & VIBRATION	Overhead Lines Rigid Spacers, Flexible Spacers & Spacer Dampers	Sub-span Oscillation Test	Clause 7.5.6.2 of IEC 61854:2020
3698	MECHANICAL- NOISE & VIBRATION	Spacer/Spacer Damper for twin horizonatl bundle conductors up to & including 800 kV	Log Decrement Test	Clause 5.17 of IS 10162:1982, RA 2018
3699	MECHANICAL- NOISE & VIBRATION	Spacers & Spacer Dampers for Twin Horizontal Bundle Conductors	Longitudinal Vibration Test	Clause 5.11.1 of IS 10162:1982, RA 2018
3700	MECHANICAL- NOISE & VIBRATION	Spacers & Spacer Dampers for Twin Horizontal Bundle Conductors	Sub-span Oscillation Test	Clause 5.11.3 of IS 10162:1982, RA 2018
3701	MECHANICAL- NOISE & VIBRATION	Spacers & Spacer Dampers for Twin Horizontal Bundle Conductors	Vertical Vibration Test.	Clause 5.11.2 of IS 10162:1982, RA 2018
3702	MECHANICAL- NOISE & VIBRATION	Stockbridge Vibration Dampers for Overhead Power Lines	Clamp Bolt Torque Test	Clause 7.10 of IS 9708:1993, RA 2019



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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
3703	MECHANICAL- NOISE & VIBRATION	Stockbridge Vibration Dampers for Overhead Power Lines	Clamp Slip Test	Clause 7.9 of IS 9708:1993, RA 2019
3704	MECHANICAL- NOISE & VIBRATION	Stockbridge Vibration Dampers for Overhead Power Lines	Damping Efficiency Test	Clause 7.8 of IS 9708:1993, RA 2019
3705	MECHANICAL- NOISE & VIBRATION	Stockbridge Vibration Dampers for Overhead Power Lines	Dynamic Characteristics Test	Clause 7.7 of IS 9708:1993, RA 2019
3706	MECHANICAL- NOISE & VIBRATION	Stockbridge Vibration Dampers for Overhead Power Lines	Fatigue Test	Clause 7.5 of IS 9708:1993, RA 2019
3707	MECHANICAL- NOISE & VIBRATION	Stockbridge Vibration Dampers for Overhead Power Lines	Galvanizing Test	Clause 7.11 of IS 9708:1993, RA 2019
3708	MECHANICAL- NOISE & VIBRATION	Stockbridge Vibration Dampers for Overhead Power Lines	Resonance Frequency Test	Clause 7.4 of IS 9708:1993, RA 2019
3709	MECHANICAL- NOISE & VIBRATION	Stockbridge Vibration Dampers for Overhead Power Lines	Visual examination and Verification of dimensions	Clause 7.2 & 7.3 of IS 9708:1993, RA 2019
3710	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LAMPS AND LAMP SYSTEMS	Actinic UV hazard exposure limit for the skin and eye	Cl 4.3.1 of IEC 62471 : 2006 IS 16108: 2012, RA
3711	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LAMPS AND LAMP SYSTEMS	Exposure limits Lamp Classification	Cl 4 and Cl 6 of IEC 62471 : 2006 IS 16108: 2012, RA
3712	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LAMPS AND LAMP SYSTEMS	Infrared radiation hazard exposure limits for the eye	Cl 4.3.7 of IEC 62471 : 2006 IS 16108: 2012, RA
3713	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LAMPS AND LAMP SYSTEMS	Near-UV hazard exposure limit for the eye	Cl 4.3.2 of IEC 62471 : 2006 IS 16108: 2012, RA
3714	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LAMPS AND LAMP SYSTEMS	Retinal blue light hazard exposure limit	Cl 4.3.3 of IEC 62471 : 2006 IS 16108:2012, RA
3715	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LAMPS AND LAMP SYSTEMS	Retinal blue light hazard exposure limit - small source	Cl 4.3.4 of Cl 4.3.2 of IEC 62471 : 2006 IS 16108: 2012, RA
3716	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LAMPS AND LAMP SYSTEMS	Retinal thermal hazard exposure limit	Cl 4.3.5 of IEC 62471 : 2006 IS 16108: 2012, RA
3717	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LAMPS AND LAMP SYSTEMS	Retinal thermal hazard exposure limit weak visual stimulus	CI 4.3.6 IEC 62471 : 2006 IS 16108: 2012, RA
3718	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LAMPS AND LAMP SYSTEMS	Thermal hazard exposure limit for the skin	Cl 4.3.8 of IEC 62471 : 2006 IS 16108: 2012, RA



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Certificate Number	TC-5452	Page No	331 of 333
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		FORTESTING	Component, parameter or	Test Method Specification
S.No	Discipline / Group	Materials or Products tested	Specific Test Performed / Tests or type of tests performed	performed and / or the techniques / equipment used
3719	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Lamps and Luminaires	Chromaticity Co-ordinates, Correlated Colour Temperature and Colour Rendering Index	IS 16107 (Part 2/Sec 1): 2012 (Cl 9) / IEC 62722-2-1 (Cl 9)
3720	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Lamps and Luminaires	Chromaticity Coordinates, Correlated Colour Temperature and CRI Index	IS 16103(Part 2): 2012,Cl.9 / IEC 62717, Cl.9
3721	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Lamps and Luminaires	Color Rendering Index (CRI)	IS 16102 (Part 2):2017 Cl.10.2 / IEC 62612 Cl. 10.2
3722	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Lamps and Luminaires	Color Variation categories	IS 16102 (Part 2):2017 Cl.10.1 / IEC 62612 ,Cl. 10.1
3723	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Lamps and Luminaires	Lumen Maintenance	IS 16102 (Part 2):2017 Cl .11.2 / IEC 62612 ,Cl. 11.2
3724	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Lamps and Luminaires	Luminous Flux	IS 16103(Part 2): 2012, Cl.8.1 / IEC 62717, Cl.8.1
3725	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Lamps and Luminaires	Luminous Flux	IS 16107 (Part 2/Sec 1): 2012,Cl.8.1 IEC 62722-2-1
3726	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LED Luminaire	Lumen Maintenance	IS 16107 (Part 2/Sec 1): 2012 (Cl 10.2) IEC 62722-2-1 (Cl.10.2)
3727	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LED Luminaire	Luminaire Efficacy	IS 16107 (Part 2/Sec 1):2012 (CI 8.3) IEC 62722-2-1
3728	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LED Luminaire	Luminous Intensity Distribution, Peak Intensity and Beam Angle	IS 16107 (Part 2/Sec 1):2012 (Cl.8.2) / IEC 62722-2-1
3729	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LED Luminaire	Luminous Intensity Distribution, Peak Intensity and Beam Angle	IS 16107 (Part 2/Sec 1):2012 (CI.8.2) IEC 62722-2-1
3730	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LED Luminaire	Total Input Power	IS 16107 (Part 2/Sec 1): 2012 (CI.7) / IEC 62722-2-1
3731	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LED Luminaire	Total Input Power	IS 16107 (Part 2/Sec 1): 2012 (Cl.7) / IEC 62722-2-1
3732	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LED Luminaire	Total Input Power	IS 16107 (Part 2/Sec 1): 2012 (Cl.7) / IEC 62722-2-1



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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
3733	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LED Luminaire	Total Input Power	IS 16107 (Part 2/Sec 1): 2012 (Cl.7) / IEC 62722-2-1
3734	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LED Luminaire	Total Input Power	IS 16107 (Part 2/Sec 1): 2012 (Cl.7) / IEC 62722-2-1
3735	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LED Luminaire	Total Input Power	IS 16107 (Part 2/Sec 1): 2012 (Cl.7) IEC 62722-2-1
3736	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LED Modules for General lighting	Lumen Maintenance	IS 16103 (Part 2):2012,Cl 10.2 / IS 16105 / IEC 62717
3737	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	LED Modules for General lighting	Luminous Intensity Distribution, Peak Intensity and Beam Angle	IS 16103(Part 2): 2012, Cl.8.2 / IEC 62717, Cl.8.2
3738	PHOTOMETRY- LIGHT SOURCES (ELECTRIC LAMP)	Self Ballasted LEDLamps for General Lighting Services	Efficacy	IS 16102 (Part 2):2017 Cl.9.3 / IEC 62612 Cl. 9.3
3739	PHOTOMETRY- LUMINARIES	Lamps and Luminaires	Color rendering index (CRI)	CI.9, IESNA LM 79- 08 / CI. 14 of IS 16106
3740	PHOTOMETRY- LUMINARIES	Lamps and Luminaires	Color temperature (CCT)	CI.9, IESNA LM 79- 08 / CI. 11 of IS 16106
3741	PHOTOMETRY- LUMINARIES	Lamps and Luminaires	Luminous flux	IS 16102-2 Cl.9.1
3742	PHOTOMETRY- LUMINARIES	Lamps and Luminaires	Luminous flux	IS 16106-2012 C1.9 / IESNA LM 79- 08 / Cl.10.2 of IS 16106
3743	PHOTOMETRY- LUMINARIES	Lamps and Luminaires	Luminous intensity distribution	CI.12 IS 16106-2012 / CI.9.3 IESNA LM 79-08
3744	PHOTOMETRY- LUMINARIES	LED lamps and luminaries	Luminous intensity distribution	CI.12, IS 16106-2012 / CI.9.3, IESNA LM 79-08
3745	PHOTOMETRY- LUMINARIES	LED Luminaire	Endurance	IS 16107 (Part 2/Sec 1): 2012 (Cl.10.3) IEC 62722-2-1 (Cl.10.3)



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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		
Mobile Testing						
1	CHEMICAL- LUBRICANTS	Service insulating mineral oil	Neutralization value / Acidity	IS1448(Part2):2007 (RA 2018) / IEC 62021-1:2003		
2	CHEMICAL- LUBRICANTS	Service insulating mineral oil	Water Content by KF Coulometric method	IS 1866:2017 IEC60422:2013 / IS 13567:2018 / IEC 60814:1997		
3	CHEMICAL- LUBRICANTS	Service mineral insulating oil	Interfacial Tension	IS :6104:1971 (RA 2021) ASTM D 971 -20		
4	CHEMICAL- LUBRICANTS	Service mineral insulating oil	Flash Point	IS : 1448(Part 21)-12 (RA 2019) ISO :2719-2016		
5	CHEMICAL- LUBRICANTS	Service Mineral insulating oil	Sediment & Sludge	Annex C of IS 1866:2017 /IEC 60422:2013 Cl. 1.9.1 of IEC 61125 : 2018		
6	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Service Mineral insulating oil	Dielectric Dissipation Factor	IS 1866:2017 IEC60422:2013 / WITHDRAWN IS 6262:1971(RA2021) IEC60247:2004		
7	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Service Mineral Insulating oil	Electric Strength	IS 1866:2017 IEC60422:2013 / IS 6792:2023 IEC60156:2018		
8	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Service Mineral Insulating Oil	Specific Resistance	IS 1866:2017 IEC60422:2013 / WITHDRAWN IS 6262:1971(RA2021) IEC60247:2004		