National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TESTING LABORATORY, NSIC TECHNICAL SERVICES CENTRE (A GOVT. OF INDIA ENTERPRISE), JAPANIGATE, P.O. BALITIKURI, HOWRAH, WEST BENGAL, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 26/12/2022 to 25/12/2024 **Last Amended on** 17/02/2023

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Steel	Mass for Zinc Coating	IS 6745
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Steel	Uniformity of Zinc coating(Dip test)	IS 2633
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zn Coated Steel	Adhesion Test	IS 2629
4	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	IS 11035
5	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	IS 11035
6	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	IS 11035
7	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	IS 11035
8	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	IS 11035
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	IS 11035
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	IS 11035
11	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Chromium	IS 11035
12	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Molybdenum	IS 8811
13	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Vanadium	IS 8811
14	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Aluminium	IS 8811
15	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Carbon	IS 8811
16	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Chromium	IS 8811
17	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Copper	IS 8811

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18	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Manganese	IS 8811
19	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Phosphorous	IS 8811
20	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Silicon	IS 8811
21	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Sulphur	IS 8811
22	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium (by Emission Spectrometer)	IS 9879
23	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon (by Emission Spectrometer)	IS 9879
24	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium (by Emission Spectrometer)	IS 9879
25	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper (by Emission Spectrometer)	IS 9879
26	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese (by Emission Spectrometer)	IS 9879
27	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum (by Emission Spectrometer)	IS 9879
28	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel (by Emission Spectrometer)	IS 9879
29	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous (by Emission Spectrometer)	IS 9879
30	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon (by Emission Spectrometer)	IS 9879
31	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur (by Emission Spectrometer)	IS 9879
32	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium (by Emission Spectrometer)	IS 9879
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Accuracy Test - ratio and phase displacement error	IEC 61869 -1 (2007), IEC 61869-2 (2012), IS 2705 Pt 1 (1992), IS 16227 Pt 1(2016) IS 16227 Pt 2
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	CT PT Combined Unit (Up to 33 kV Grade)	Lightning Impulse voltage withstand	IS 2705 (Part 1) : 1992, IEC 60060-1: 2010, IS 2071-1: 2016, IS 16227: (Part 4): 2015, IEC-61869-4 : 2013, IS 16227: (Part 1): 2016, IEC -61869-1:

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35	ELECTRICAL- INDUCTORS & TRANSFORMERS	CT-PT Combined unit	Wet Power Frequency voltage withstand	IS 2705 (Part 1) : 1992, IEC 60060-1: 2010, IS 2071-1: 2016, IS 16227: (Part 4): 2015, IEC-61869-4 : 2013, IS 16227: (Part 1): 2016, IEC -61869-1
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	CT-PT Combined unit (Up to 33 kV Grade)	Dry Power Frequency voltage withstand	IEC 60060-1: 2010, IS 2071-1: 2016, IS 2705 (Part 1) : 1992,IS 16227: (Part 4): 2015, IEC-61869-4 : 2013, IS 16227: (Part 1): 2016, IEC -61869-1
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Determination Instrument security Factor (ISF)	IEC 61869-2:2012, IS 16227-part 2
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Determination of Composite error	IEC 61869-2:2012 IS 16227-part 2
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Determination of knee point emf and exciting current	IS 16227-2: 2016 IEC 61869-2
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Determination of secondary wdg. Resistance	IS 16227-2: 2016, IEC -61869-1: 2007, IS : 2705 – (Part-1): 1992, IS 16227-1: 2016, IEC -61869-2: 2012, IS 2705 Pt 4
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Temperature Rise	IS 16227 : (Part 2): 2016, IEC-61869-2: 2012, IEC -61869-1: 2007, IS 16227: (Part 1): 2016, IS 2705-1
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (Up to 33 kV Grade)	Dry Power Frequency Voltage Withstand	IEC 60060-1: 2010, IS 2705 (Part 1) : 1992, IS 2071-1: 2016, IS 16227: (Part 1): 2016, IEC-61869-2: 2012, IS 16227 : (Part 2): 2016, IEC -61869-1
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (Up to 33 kV Grade)	Lightning Impulse Voltage Withstand	IEC 60060-1: 2010, IS 2705 (Part 1) : 1992, IS 2071-1: 2016, IS 16227: (Part 1): 2016, IEC-61869-2: 2012, IS 16227 : (Part 2): 2016, IEC -61869-1
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer (Up to 33 kV Grade)	Wet Power Frequency Voltage Withstand	IEC 60060-1: 2010, IS 2705 (Part 1) : 1992, IS 2071-1: 2016, IS 16227: (Part 1): 2016, IEC-61869-2: 2012, IS 16227 : (Part 2): 2016, IEC -61869-1

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45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Instrument Transformer	Verification of marking / Polarity	IS 16227: (Part 1): 2016, IEC-61869-1: 2007, IS 16227: (Part 2): 2016, IEC-61869-2: 2012, IS 2705 (Part 1) : 1992, IS 16227: (Part 4): 2015, IEC-61869-4
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer	Accuracy Test - ratio and phase displacement error	Withdrawn standard IS 3156 pt 1:1992, IEC 61869-1:2007, IEC 61869-3 : 2011, IS 16227 - part 1 : 2016 , IS 16227 - part 3
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer	Verification of marking / Polarity	IS 16227: (Part 1): 2016, IEC-61869-1: 2007, IS 16227: (Part 3): 2016, IEC-61869-3 : 2011, IS 16227: (Part 5): 2016, IEC-61869-5: 2011, (Withdrawn Standard)IS 3156 (Part 1)
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer (Up to 33 kV Grade)	Dry / Wet Power Frequency Voltage Withstand	IS 16227: (Part 3): 2016, IS 16227: (Part 1): 2016, IEC-61869-1: 2007, IEC:60060-1: 2010, IS 2071 (Part-1) : 2016, (Withdrawn Standard)IS 3156 (Part 1) : 1992, IEC-61869-3
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer (Up to 33 kV Grade)	Lightning Impulse voltage withstand	IS 16227: (Part 1): 2016, IEC-61869-3 : 2011, IS-16227 (Part 3): 2015, IEC-61869-1: 2007, (Withdrawn Standard)IS 3156 (Part 1) : 1992, IEC:60060-1: 2010, IS 2071 (Part-1)
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer (Up to 33 kV Grade)	Wet Power Frequency Voltage Withstand	IEC-61869-1: 2007, IEC: 60060-1: 2010, IS 2071 (Part-1) : 2016, IEC-61869-3
51	ELECTRICAL- SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating current dis connector (isolators) & Earthing switches for voltages above 1 kV	Resistance of the main circuit by mV drop	IEC 62271-102: 2018, RDSO spec. no. TI/SPC/PSI/ISOLATOR/0210 : 2021, ETI/OHE/16(1/94),(Withdrawn Standard)IS 9921(Part 2): 1982, (Withdrawn Standard)IS 9921 (Part 4): 1985, (Withdrawn Standard)IS 9921(Part 5)

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52	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating current dis connector (isolators) & Earthing switches for voltages above 1 kV	Temperature Rise Test	IEC 62271-102: 2018, RDSO spec. no. TI/SPC/PSI/ISOLATOR/0210 : 2021, ETI/OHE/16(1/94),(Withdrawn Standard)IS 9921(Part 2): 1982, (Withdrawn Standard)IS 9921 (Part 4): 1985, (Withdrawn Standard)IS 9921(Part 5): 1985
53	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating current dis connector (isolators) & Earthing switches for voltages above 1 kV (upto 33 kV)	Mechanical Endurance test	RDSO spec. no. TI/SPC/PSI/ISOLATOR/0210 : 2021, ETI/OHE/16(1/94), (Withdrawn Standard)IS 9921(Part 4):: 1985, IEC 62271-102
54	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating current dis-connectors (Isolators) & Earthing Switches for voltages above 1kV (upto 52 kV)	Lightning Impulse	IEC 62271-102: 2018, RDSO spec. no. TI/SPC/PSI/ISOLATOR/0210 : 2021, ETI/OHE/16(1/94),(Withdrawn Standard)IS 9921(Part 2): 1982, (Withdrawn Standard)IS 9921 (Part 4): 1985, (Withdrawn Standard)IS 9921(Part 5): 1985, IS 2071(Part-1) : 2016, IEC-60060-1
55	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating current dis-connectors (Isolators) & Earthing Switches for voltages above 1kV (upto 52 kV)	Power Frequency voltage withstand (Dry & Wet)	IEC 62271-102: 2018, RDSO spec. no. TI/SPC/PSI/ISOLATOR/0210 : 2021, ETI/OHE/16(1/94),(Withdrawn Standard)IS 9921(Part 2): 1982, (Withdrawn Standard)IS 9921 (Part 4): 1985, (Withdrawn Standard)IS 9921(Part 5): 1985, IS 2071(Part-1) : 2016, IEC-60060-1
56	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating current disconnectors (Isolators) & earthing switches for voltages above 33 kV (Upto 420 kV)	Temperature Rise	IS /IEC 62271-102: 2003, (Withdrawn Standard)IS 9921 (Part 2) : 1982, (Withdrawn Standard)IS 9921 (Part 4)

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57	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating Current Switches for voltage above 1 kv (up to 52 kV)	Resistance of the main circuit by mV drop	(Withdrawn Standard)IS 9920(Part 2) : 1988, (Withdrawn Standard)IS 9920 (Part 4): 1985, IS/IEC 62271-103
58	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating Current Switches for Voltages above 1 kv (upto 33 kV)	Mechanical Endurance	IS /IEC 62271-103: 2018, (Withdrawn Standard)IS 9920(Part 4)
59	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating Current Switches for Voltages above 1 kv (upto 52 kV)	Lightning Impulse	IEC 62271-103: 2018, IS 2071-1 (IEC-60060-1-2010): 2016, (Withdrawn Standard)IS 9920 (Part 4): 1985, (Withdrawn Standard)IS 9920 (Part 2)
60	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating Current Switches for Voltages above 1 kv (upto 52 kV)	Power Frequency Voltage Withstand (Dry & Wet)	IS /IEC 62271-103: 2018, IEC-60060-(Part-1):2010,IS 2071-(Part-1): 2016, (Withdrawn Standard)IS 9920 (Part 4): 1985, (Withdrawn Standard)IS 9920 (Part 2)
61	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Alternating Current Switches for Voltages above 1 kv (upto 52 kV)	Temperature Rise	IEC 62271-103: 2011, (Withdrawn Standard)IS 9920(Part 2): 1988, (Withdrawn Standard)IS 9920 (Part 4)
62	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breaker (AC Metal enclosed Switch Gear and Control gear) (Up to 33 kV Grade)	Mechanical Endurance Test (mechanical characteristics)	IEC 62271-100
63	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breaker (AC Metal enclosed Switch Gear and Control gear) (Up to 33 kV Grade)	Mechanical Operation test (for switching device, removable parts, interlocks etc.)	IS/IEC 62271- 200
64	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breaker (AC Metal enclosed Switch Gear and Control) (Up to 33 kV Grade)	Temperature Rise	IEC : 62271-200 : 2011, IEC : 62271-100 (amendment 1: 12): 2008, IEC : 62271-1 :
65	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breaker (AC Metal enclosed Switch Gear and Control) (Up to 33 kV Grade)	Dry Power Frequency Voltage Withstand	IEC :62271-1: 2017, IEC :62271-100 (amendment 1:12): 2008, IEC : 62271-200
66	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breaker (AC Metal enclosed Switch Gear and Control) (Up to 33 kV Grade)	Lightning Impulse Voltage Withstand	IEC : 62271-1 :: 2017, IEC: 62271-200 : 2011, IEC: 62271-100(amendment 1 :12)
67	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breaker (AC Metal enclosed Switch Gear and Control) (Up to 33 kV Grade)	Measurement of Contact Resistance	IEC : 62271-1 :: 2017, IEC: 62271-200 : 2011, IEC: 62271-100(amendment 1 :12):

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68	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Circuit Breaker (Up to 33 kV Grade)	Wet Power Frequency Voltage Withstand	IEC : 62271-200: 2011, IEC :62271-1: 2017, IEC : 62271-100 (amendment 1:12)
69	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Fuse Explosion (Drop Out & Cut Out HV Fuse) (Up to 33 kV)	Temperature Rise	RDSO specification no. ETI/PSI/14(1/86), IEC 60282-2: 2008, IS 9385(Part 2) : 2018, IEC 60282-1: 2009, IS 9385(Part 1)
70	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Fuses-Explosion (Drop out & Cut Out HV Fuse) (Upto 33 kV)	Lightning Impulse	RDSO specification no. ETI/PSI/14(1/86), IEC 60282-2: 2008, IS 9385(Part 2) : 2018, IEC-60060-(Part-1):2010,IS 2071-(Part-1): 2016, IEC 60282-1: 2009, IS 9385(Part 1)
71	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	High Voltage Fuses-Explosion (Drop out & Cut Out HV Fuse) (Upto 33 kV)	Power Frequency voltage withstand (Dry & Wet)	RDSO specification no. ETI/PSI/14(1/86), IEC 60282-2: 2008, IS 9385(Part 2) : 2018, IEC-60060-(Part-1):2010,IS 2071-(Part-1): 2016, IEC 60282-1: 2009, IS 9385(Part 1)
72	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator / String(up to 33 KV Grade)	Verification of axial and radial displacement	IEC 60383-1
73	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Discharge / Earthing Rod	Lightning Impulse Voltage withstand	RDSO specification ETI/PSI/14(1/86), IS 2071-1:2016, IEC-60060-1
74	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Wrought Al.Wire	Resistance / Conductivity / Resistivity	IS 2067
75	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	ACSR/ACASR/AAC/AAAC	Electrical Resistance/Resistivity	PGCIL specification Section-VIIA (Vol-II) rev 2 (Jan. 2022), IS 398 (Part 3): 1976, IS 398 (Part 2) : 1996, IS 398 (Part 1) : 1996, BS 215 (Part 1 & Part 2): 1970, IEC 61089: 1993, IS 398 (Part 4): 1994, IS 398 (Part 5)
76	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium Alloy Redraw Wire	Resistance / Conductivity /Resistivity	IS 9997

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77	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Cables and Accessories (Up to 33 kV Grade)	DC Resistance of Conductor/Armour	IS 7098-2: 2011, IS 10810 (Part-42):1984, IS 8130:2013, IS 10810 (Part-5)
78	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Cables and Accessories (Up to 33 kV Grade)	Insulation resistance/volume resistivity	IS 7098 (Part-2): 2011, IS 10810 (Part-43)
79	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic / Glass Insulator /String(Upto 33 kV Grade)	Lightning Impulse voltage withstand & flash over (Dry)	IS 4318: 1993, ANSI C29.3: 1986, ANSI C29.4: 1989, IEC-60168: 2001, (Withdrawn Standard) IS 2099: 1986, . IEC -60137: 2008, ANSI C29.7: 1996, Withdrawn Standard IS 2544: 1973, ANSI C29.6: 1996, ANSI C29.1: 1988, IEC 60383-2: 1993, IEC 60383-1: 1993, IS 2071-(Part-1): 2016, IEC 60060-1: 2010, ANSI C29.2: 1992, IS 731
80	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator (145 kV Grade)	Wet power frequency voltage withstand	(Withdrawn Standard) IS 2544: 1973, IEC 60383-2: 1993, IEC-60383-1: 1993,IS 731
81	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator / String	Galvanizing (Uniformity / mass of zinc coating)	IEC-60168: 2001, IS 2633: 1986, Withdrawn Standard IS 2544: 1973, ANSI C29.1: 1988, IS 731 : 1971, ANSI C29.2: 1992, IS 4318
82	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator / String(up to 33 kV Grade)	Mechanical Performance Test (Successive cycle of loading/un-loading followed by mechanical/electromechanical failing)	IS 4318 : 1993, IEC 60575: 1977, ANSI C29.1: 1988, ANSI C29.2: 1992, IS 731
83	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator / String(up to 33 kV Grade)	Mechanical Test (24 Hrs)	IS 731 (amendment 6)
84	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator / String(up to 33 kV Grade)	Residual Strength test (after mechanical damaged of the di-electric)	IEC 60797: 1984, ANSI C29.2

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85	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator /String	Visual Examination/ Inspection and Verification of Dimension	ANSI C29.3: 1986, , ANSI C29.4: 1989, IEC-60137: 2008, IS 1445: 1977, ANSI C29.6: 1996, IEC-60168: 2001, ANSI C29.2: 1992, (Withdrawn Standard) IS 2099: 1986, IS 5621 : 1970, IS 7421 : 1988, IS 5300: 1969, IEC 60383-1: 1993, ANSI C29.1: 1988, (Withdrawn Standard) IS 2544: 1973, ANSI C29.7: 1996, ANSI C29.3: 1986, Withdrawn Standard IS 2544: 1973, ANSI C29.6: 1996, ANSI C29.1: 1988, IEC 60383-2: 1993, IEC 60383-1: 1993, ANSI C29.2: 1992, IS 731: 1971
86	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator(145 kV Grade)	Dry Power Frequency voltage withstand	Withdrawn Standard IS 2544
87	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator/String	Porosity	ANSI C29.2: 1992, ANSI C29.4: 1989, Withdrawn Standard IS 2544: 1973, ANSI C29.3: 1986, IS 1445: 1977, ANSI C29.6: 1996, IS 5300: 1969, IS 7421: 1988, IS 5621: 1970, IEC-60168: 2001, IEC -60383-1: 1993, ANSI C.29.1: 1988, ANSI C29.7: 1996, IS 731
88	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator/String (Above 33 kV Grade)	Mechanical Load	IEC-60168: 2001, IEC-60383-1: 1993, IEC-60383-2
89	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator/String (Above 33 kV Grade, Upto 72.5 kV)	Dry Lightning Impulse Voltage withstand (w/o Flashover)	IEC-60383-1: 1993, IEC -60383-2: 1993, IS 731: 1971, Withdrawn Standard IS 2544
90	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator/String (Above 33 kV Grade, Upto 72.5 kV)	Dry Power Frequency Voltage Withstand	IEC-60168: 2001, (Withdrawn Standard) IS 2544
91	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator/String (Above 33 kV Grade, Upto 72.5 kV)	Wet Power frequency voltage withstand	IEC 60383-2: 1993, IS 731: 1971, (Withdrawn Standard) IS 2544: 1973, IEC-60383-1

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92	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator/String (Up to 33 kV Grade)	Dry Power Frequency Voltage withstand / flashover / routine test	IS 731 : 1971, ANSI C29.3: 1986, ANSI C29.4: 1989, IS 1445: 1977, ANSI C29.6: 1996, ANSI C29.2: 1992, IEC-60168: 2001, IS 5621 : 1970, IS 2071-(Part-1): 2016, IS 7421 : 1988, IS 5300: 1969, IEC 60383-1: 1993, (Withdrawn Standard) IS 2099: 1986, .ANSI C29.1: 1988, IEC -60137: 2008, (Withdrawn Standard) IS 2544: 1973, ANSI C29.7: 1996, IEC 60060-1: 2010, ANSI C29.3
93	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator/String (Up to 33 kV Grade)	Electromechanical failing	IEC -60383-1: 1993, ANSI C29.1: 1988, ANSI C29.2: 1992, IS 731
94	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator/String (Up to 33 kV Grade)	Lightning Impulse Voltage Wihstand & flashover (Dry)	(Withdrawn Standard) IS 2099: 1986, IEC-60168: 2001, IEC-60137: 2008, ANSI C29.7
95	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator/String (Up to 33 KV Grade)	Mechanical Load / Strength/ Failing Load / routine test	IS 5300: 1969, (Withdrawn Standard) IS 2544: 1973, IS 1445: 1977, IS 4318: 1993, IEC-60383-1: 1993, IEC-60168: 2001, IS 731
96	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator/String (Up to 33 KV Grade)	Temperature Cycle	IS 5621: 1970, (Withdrawn Standard) IS 2544: 1973, IS 731: 1971, IS 5300 : 1969, IEC 60168: 2001, IS 1445 : 1977, IS 7421: 1988, IS 4318 : 1993, IEC -60383-1
97	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator/String (Up to 33 KV Grade)	Under Oil Puncture withstand	ANSI C29.7: 1996, ANSI C29.6: 1996, ANSI C29.2: 1992, IEC-60383-1: 1993, (Withdrawn Standard) IS 2544: 1973, IS 731: 1971, IS 1445 : 1977, IEC-60168: 2001, ANSI C29.1
98	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator/String (Up to 33 KV Grade)	Visible Discharge	IS 4318:1993, (Withdrawn Standard) IS 2544: 1973, IS 731

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99	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator/String (Up to 33 KV Grade)	Wet Power frequency voltage withstand	IS 5300 : 1969, IEC- 60137: 2008, ANSI C29.2: 1992, ANSI C29.6: 1996, IS 1445: 1977, IEC-60168: 2001, ANSIC C29.3: 1986, (Withdrawn Standard) IS 2544: 1973, IS 7421: 1988, ANSI C29.1: 1988, IS 4318: 1993, IS 2071-1: 2016, IS 731 : 1971, (Withdrawn Standard) IS 2099: 1986, IEC-60060-1: 2010, IEC -60383-1: 1993, IEC 60383-2: 1993, ANSI C29.7
100	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Circuit Breaker	HV Test	IS/IEC 60947(Part-2)
101	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Circuit Breaker	Temperature Rise	IS/IEC:60947(Part-2)
102	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Clamps and Connector	DC Resistance	IS 5561
103	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Clamps and Connector	Temperature Rise	IS 5561: 2018, ANSI/NEMA CC-1
104	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Clamps and Connector	visual examination and dimension check	IS 5561
105	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composit Insulator	Water Diffusion test	IEC 62231 : 2006, ANSI C.29.13 : 2000, IEC 62217
106	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator	Brittle Fracture resistance test	RDSO spec. no. TI/SPC/OHE/INSCOM/1071(Rev-01) : 2016, GETCO/E/TS-SRI 053/R4 - 2016, NTSC(H)/ELEC.TEST/SOP(POLYMER)/01

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107	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator (solid core with polymeric housing)	Assembled Core Load time test	IEC 62231 : 2006, IEC 61109
108	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator (solid core with polymeric housing)	Damage limit proof test & test of tightness of interface between end fitting and insulator housing	IEC 61109
109	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator (solid core with polymeric housing)	Dry Power Frequency Voltage	IEC 62231-2006, IEC 62217
110	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator (solid core with polymeric housing)	Dye Penetration test	IEIEC 62231-2006, C 61109: 2008, IEC 62217
111	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator (solid core with polymeric housing)	Galvanizing	IEC 62231-2006, IEC 61109: 2008, IEC 60383-1
112	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator (solid core with polymeric housing)	Mechanical Load test	IEC 62231:2006, IEC 61109
113	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator (Solid core with polymeric housing)	Wet Power Frequency Voltage	IEC 62231-2006, IEC: 60060-1 : 2010, IEC 61109: 2008, IEC 60383-1
114	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator , (Solid core with polymeric housing)	Dry Lightning Impulse withstand voltage	IEC 62231-2006, IEC: 60060-1 : 2010, IEC 60383-1: 1993, IEC 61109
115	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator , (Solid core with polymeric housing)	Visual Examination and Dimension Verification	IEC 61109: 2008, IEC 62231 : 2006, IEC 62217
116	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulators	Reference Dry Power Frequency test	IEC 62231:2006, IEC 62217
117	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulators	Reference Voltage and Temperature for verification test	IEC 62231:2006, IEC 62217

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118	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulators	Verification of max. design cantilever load	IEC 62231
119	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Copper rod/bar/strip	Resistance / Conductivity / Resistivity	IS 191: 2007, IS 1897 : 2008, IS 3635: 1966, IS 613
120	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Discharge / Earthing Rod	Dry / Wet Power Frequency Voltage withstand	ETI/OHE/51(9/87), IS 2071(Part-1) : 2016, IEC-60060-1
121	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Distribution Box	HV Test	IS/IEC 60947(Part-1)
122	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Distribution Box	Temperature Rise	IS/IEC 60947(Part-1)
123	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Earth Wire	Electrical Resistance/Resistivity	IS 12776
124	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	EC Grade Al.Rod	Resistance/Conductivity/Resistivity	IS 5484
125	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Electrical Fittings : Stockbridge Damper / Spacer Damper/ Suspension Clamp/ Connectors etc.	Magnetic power loss	IS 9708: 1993, IEC 61284: 1997, IS 10162
126	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Indoor Post Insulator of Organic Materials above 1 KV	Dry Power Frequency Voltage withstand / flashover / routine	IS 9431 : 1979, IS 2071 (Part-1): 2016, IEC: 60060-1
127	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Indoor Post Insulator of Organic Materials above 1 KV	Dry Power Frequency voltage withstand /flashover test	IS 9431 : 1979, IS 2071 (Part-1): 2016, IEC: 60060-1
128	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Indoor Post Insulator of Organic Materials above 1 KV	Lightning Impulse Puncture	IS 9431 : 1979, IS 2071 (Part-1): 2016, IEC: 60060-1:

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129	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Indoor Post Insulator of Organic Materials above 1 KV	Lightning Impulse voltage withstand & flashover	IEC 60383-1: 1993, IS 9431 : 1979, IS 2071 (Part-1): 2016, IEC: 60060-1
130	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Indoor Post Insulator of Organic Materials above 1 KV	Mechanical test	IS 9431
131	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulated Cable Accessories	Electrical Aging Test	NFC 33004: 2013,NFC 33020: 2013, EN 50483-5: 2011, NFC 33004: 1998, NFC 33020
132	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulated Cable Accessories	Electrical Continuity Test	NFC 33020 : 1998, NFC 33020 : 2013, NFC 33021
133	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulated Cable Accessories	Installation/ low temperature assembly / Mechanical Test	EN 50483-4: 2009, NFC 33020 : 1998, NFC 33041: 1998, NFC 33040:1998, NFC 33021: 1998, NFC 33020
134	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulated Cable Accessories	Voltage Test	EN 50483-4: 2009, NFC 33020 : 1998, NFC 33041: 1998, NFC 33040:1998, NFC 33021: 1998, NFC 33020
135	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulated Cable Accessories	Water tightness test	EN 50483-4: 2009, NFC 33020 : 1998, NFC 33041: 1998, NFC 33040:1998, NFC 33021: 1998, NFC 33020
136	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Interconnecting Bus Bars for AC Voltage Up to 36 KV	Impulse Voltage	IS 8084
137	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Interconnecting Bus Bars for AC Voltage Up to 36 KV	Insulation Resistance	IS 8084
138	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Interconnecting Bus Bars for AC Voltage Up to 36 KV	Power Frequency Voltage Withstand	IS 8084
139	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Interconnecting Bus Bars for AC Voltage Up to 36 KV	Temperature Rise	IS 8084

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140	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Low Carbon GS wire / formed wire	Resistance / Conductivity / Resistivity	IS 3975: 1999, IS 10810-42 : 1984, IS 12048
141	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Low voltage switchgear and control gear assemblies (TTA & PTTA/Bus bar trunking system)	Di-Electric Test	IS/IEC 60947-1:2015,: IS 8623 Part-2: 1993, withdrawn std,IS 8623 Part-1: 1993, IEC 61439-2: 2012, IEC 61439-1
142	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Low voltage switchgear and control gear assemblies (TTA & PTTA/Bus bar trunking system)	Temperature Rise	IS/IEC 60947-1:2015,: IS 8623 Part-2: 1993, withdrawn std,IS 8623 Part-1: 1993, IEC 61439-2: 2011, IEC 61439-1
143	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Low voltage switchgear and control gear assemblies (TTA & PTTA/Bus bar trunking system/LTDB etc.)	Creepage and Clearance (Dimension verification)	IS/IEC 60947-1:2015,: IS 8623 Part-2: 1993, withdrawn std,IS 8623 Part-1: 1993, IEC 61439-2: 2012, IEC 61439-1
144	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Metal Fitting / accessories for Insulator / Conductor/Earth Wires for O.H Lines	Electrical Resistance / resistivity / Conductivity	IS 2121 (Part-2): 1981, IS 2486(Part-1): 1993, IS 2121 (Part-1) : 1981, IS 12048
145	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Metal Fitting / accessories for Insulator / Conductor/Earth Wires for O.H Lines	Heating Cycle	IS 2121 (Part-4) : 1991, IS 2121 (Part-3) : 1992, IEC 61284 (Class A Joints Only), BS 3288 Pt-1:1997, IS 2121 (Part-2): 1981, IS 2486(Part-1)
146	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Polymer/Composite/ Porcelain / Glass Insulator	Thermal mechanical performance test	IEC 62231 : 2006, IS 4318: 1993, IEC 60575: 1977, IS 731 : 1971, IEC 60383 Pt1 : 1993, IEC 61109
147	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Wrought Al.Wire	Resistance / Conductivity / Resistivity	IS 3635
148	MECHANICAL-MECHANICAL PROPERTIES OF METALS	(Cast iron , Structural Steel , Steel Tube & Al & Al alloy Sheet & strip , Deformed Steel Bars & Wires , Mild Steel Wire , Wrought Al, Al Alloy Wire , EC Grade Al Rod, Earth Wire , Power Connector , Barded Wire Galvanized Stay Strand)	Bend	IS 1599
149	MECHANICAL-MECHANICAL PROPERTIES OF METALS	(Cast iron , Structural Steel , Steel Tube & Al & Al alloy Sheet & strip , Deformed Steel Bars & Wires , Mild Steel Wire , Wrought Al, Al Alloy Wire , EC Grade Al Rod, Earth Wire , Power Connector , Barded Wire Galvanized Stay Strand)	Elongation%	IS 1608 part 1

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150	MECHANICAL-MECHANICAL PROPERTIES OF METALS	(Cast iron , Structural Steel , Steel Tube & Al & Al alloy Sheet & strip , Deformed Steel Bars & Wires , Mild Steel Wire , Wrought Al, Al Alloy Wire , EC Grade Al Rod, Earth Wire , Power Connector , Barded Wire Galvanized Stay Strand)	Ultimate Tensile Strength	IS 1608-Part 1
151	MECHANICAL-MECHANICAL PROPERTIES OF METALS	(Cast iron , Structural Steel , Steel Tube & Al & Al alloy Sheet & strip , Deformed Steel Bars & Wires , Mild Steel Wire , Wrought Al, Al Alloy Wire , EC Grade Al Rod, Earth Wire , Power Connector , Barded Wire Galvanized Stay Strand)	Yield Strength	IS 1608 -Part 1
152	MECHANICAL-MECHANICAL PROPERTIES OF METALS	(Mild Steel Wire , Wrought Al , Al Alloy Wire , EC Grade Al Rod , Earth Wire , Power Connector)	Wrapping	IS 1755
153	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Breaking Load of all Individual Al Wires	ASTM B-524: 2011, BS 215-1
154	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Breaking Load of All Individual Al. Wire	IS 398 (Part 1)
155	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Diameter of Individual Wire (Al.)	IS 398 (Part 1)
156	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Freedom from defects	IEC 61089: 1991, BS 215-1
157	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Freedom from Defects	IS 398 (Part 1)
158	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Lay Ratio	IS 398 (Part 1)
159	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Measurement of Dia of Individual Wire (Al)	BS 215-1: 1970, IEC 61089
160	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Measurement of Lay Ratio	BS 215-1: 1970, ASTM B-524
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Wrapping	IS 398 (Part 1) :

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162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Wrapping Test	BS 215-1
163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Wrapping Test (Al)	ASTM B524
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAA Conductors	Breaking Load of All Individual Al. Wires.	IS 398 (Part 4)
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAA Conductors	Diameter of Individual Wire (Al.)	IS 398 (Part 4)
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAA Conductors	Elongation	IS 398 (Part 4)
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAA Conductors	Freedom From Defects	IS 398 (Part 4)
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAA Conductors	Lay Ratio	IS 398 (Part 4)
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAA Conductors	Wrapping	IS 398 (Part 4) :
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAAC Conductor	Freedom from Defects	BS 3242
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAAC Conductor	Measurement of Dia of Individual Wire(Al.)	ASTM B-399
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Breaking Load of All Individual Al /Steel Wire	ASTM B-232: 2011, BS 215-2: 1970, ASTM B-711: 2005, SS 4240814
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Breaking load of Individual Wire (Al. & Steel)	IEC 61089
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Diameter of Individual Wire (Al. & Steel)	IS 398 (Part 2): 1996, IS 398 (Part 5)
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Ductility (Elongation/Torsion)	BS 215-2: 1970, ASTM B-232: 2011, SS 4240814: 1989, IEC 61089: 1991, ASTM B-711

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176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Freedom from defect	IEC 61089: 1991, BS 215-2: 1970, ASTM B-232: 2011, SS 4240814: 1989, ASTM B-711
177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Freedom from Defects	IS 398 (Part 2): 1996, IS 398 (Part 5)
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Measurement of Dia. Of Individual Wire (Al & Steel)	IEC 61089: 1991, ASTM B-711: 2005, BS-215-2: 1970, ASTM B-232: 2011, SS 4240814
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Measurement of Lay Ratio	BS 215-2: 1970, ASTM B-711: 2005, IEC 61089: 1991SS 4240814: 1989, ASTM B-232
180	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Stress-Strain on Steel Core and Conductor	BS EN 50182
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Surface Condition	ASTM B-232: 2011, IEC 61089:1991, BS 215-2: 1970, SS 4240814: 1989, ASTM B-711:
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Ultimate Breaking Load	IEC 61089 :1991, ASTM B-232: 2011, ASTM B-711: 2005, BS 215-2
183	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Wrapping (Al & Steel)	ASTM B-232: 2005, ASTM B-711: 2005, IEC 61089: 1991, BS 215-2
184	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Breaking Load of All Individual Al.Steel Wire	IS 398 (Part 2) : 1996, IS 398 (Part 5)
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Ductility (Elongation /Torsion)	IS 398 (Part 2) : 1996, IS 398 (Part 5)
186	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Measurement of Lay Ratio	IS 398 (Part 2): 1996, IS 398 (Part 5)
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Stress -Strain on Steel Core	IS 398 (Part 2)
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Stress-Strain on Conductor	IS 398 (Part -2)

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189	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Surface Condition	IS 398 (Part 2) : 1996, IS 398 (Part 5)
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Ultimate Breaking Load	IS 398 (Part 2): 1996, IS 398 (Part 5)
191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Wrapping (Al. & Steel)	IS 398 (Part 2): 1996, IS 398 (Part 5)
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Cast iron, Structural Steel, Steel Tube & Al & Al alloy Sheet & strip, Deformed Steel Bars & Wires, Mild Steel Wire, Wrought Al, Al Alloy Wire, EC Grade Al Rod, Earth Wire, Power Connector, Barded Wire Galvanized Stay Strand	% Reduction of area	IS 1608 -Part 1:
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Chain Pulley Block	Proof Load	IS 3832
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Bend	IEC 61284: 1997, BS 3288-1
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Bend	IS 2121 (Part 1)
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Clamp Slip Strength	BS 3288-1: 2014, IEC 61284
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Clamp Slip Strength	IS 2121 (Part 1)
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Clamp Slip Strength	IS 2121 (Part 3)
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Failing Load	IEC 61284: 1997, BS 3288-1
200	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Failing Load	IS 2121 (Part 2)
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Mechanical Strength	IEC 61284: 1997, BS 3288-1

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202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Mechanical Strength	IS 2121 (Part 3)
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Resilience	IEC 61284: 1997, BS 3288-1
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Resilient	IS 2121 (Part 1)
205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Tensile Strength	BS 3288-1: 2014, IEC 61284
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Tensile Strength	IS 2121 (Part 1)
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Verification of Dimension	BS 3288-2: 2014, IEC 61284
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Verification of Dimension	IS 2121 (Part 1) : 1981, IS 2121 (Part 2): 1981, IS 2121 (Part 3)
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Visual Examination	IEC 61284: 1997, BS 3288-2
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Visual Examination	IS 2121 (Part 1) : 1981, IS 2121 (Part 2) , IS 2121 (Part 3):
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Wrapping	BS 3288-1: 2014, IEC 61284
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Wrapping	IS 2121 (Part 1)
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Couplers	Distortion	IS 2750
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Couplers	Slip	BS EN74-1
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Deformed Steel Bars & Wires	Mass/Meter	IS 1786

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216	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Earth Wire	Breaking Force	IS 12776
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Earth Wire	Diameter of Individual Wire	IS 12776
218	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Earth Wire	Elongation%	IS 12776
219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Earth Wire	Mass/Meter	IS 12776
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Earth Wire	Torsion	IS 12776:
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Earth Wire	Wrapping	IS 12776
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	EC Grade Al Rod	Dimension Verification	IS 5484
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	EC Grade Al Rod	Freedom From Defects	IS 5484
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	EC Grade Al Rod	Tensile	IS 5484
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Barbed Wire	Dimension Verification	IS 278
226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Barbed Wire	Ductility (Wrapping)	IS 278
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Barbed Wire	Freedom from Defects	IS 278
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Barbed Wire	Mass of Wire	IS 278
229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Stay Strand	Diameter of Individual Wire	IS 2141

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230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Stay Strand	Ductility/Wrapping	IS 2141
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Stay Strand	Freedom From Defects	IS 2141
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Stay Strand	Lay Ratio	IS 2141
233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulator	Deflection	BS 3288-1: 2014, IEC 61284
234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulator	Mechanical Strength	IEC 61284: 1997, BS 3288-1
235	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulator	Slip Strength	BS 3288-1: 2014, IEC 61284
236	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulator	Verification of Dimension	IEC 61284: 1997, BS 3288-2
237	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulator	Visual Examination	BS 3288-1: 2014, IEC 61284
238	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulators	Deflection	IS 2486 (Part 1)
239	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulators	Mechanical Strength	IS 2486 (Part 1)
240	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulators	Slip Strength	IS 2486 (Part 1)
241	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulators	Verification of Dimension	IS 2486 (Part 2)
242	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulators	Visual Examination	IS 2486 (Part 1)
243	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steel Wire	Dimension Verification	IS 280

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244	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steel Wire	Freedom from Defects	IS 280
245	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steel Wire	Tensile	IS 280
246	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steel Wire	Wrapping	IS 280
247	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Point Hook with Shank	Proof Load	IS 15560
248	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Power Connector)	Dimension Verification	IS 5561
249	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Power Connector)	Freedom From Defects	IS 5561
250	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Power Connector)	Pull out test	IS 5561
251	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spacer Damper	Assembly Torque Test	IEC 61854: 1998, IS 10162
252	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spacer Damper	Clamp Bolt Torque Test	IS 10162: 1982, IEC 61854
253	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spacer Damper	Verification of Dimension	IS 10162: 1982, IEC 61854
254	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spacer Damper	Visual Examination	IEC 61854: 1998, IS 10162
255	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire Rope	Breaking Force	IS 2266
256	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Vibration Damper	Clamp Bolt Torque Test	IS 9708: 1993, IEC 61897
257	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Vibration Damper	Clamp Slip Test	IEC 61897: 1998, IS 9708

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258	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Vibration Damper	Mass Pull Off	IS 9708: 1993, IEC 61897
259	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Vibration Damper	Verification of Dimension	IS 9708: 1993, IEC 61897
260	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Vibration Damper	Visual Examination	IS 9708: 1993, IEC 61897
261	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought Al , Al Alloy Wire	Dimension Verification	IS 739
262	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought Al , Al Alloy Wire	Freedom from Defects	IS 739
263	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought Al , Al Alloy Wire	Tensile	IS 739
264	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought Al , Al Alloy Wire	Wrapping	IS 739