



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

**TESTING LABORATORY, NSIC TECHNICAL SERVICES
CENTRE (A GOVT. OF INDIA ENTERPRISE)**

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

**"General Requirements for the Competence of Testing &
Calibration Laboratories"**

for its facilities at

JAPANIGATE, P.O. BALITIKURI, HOWRAH, WEST BENGAL, INDIA

in the field of

TESTING

Certificate Number: TC-5137

Issue Date: 26/12/2024

Valid Until: 25/12/2028

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: NSIC TECHNICAL SERVICES CENTRE

Signed for and on behalf of NABL



Anuja Anand
Director

N. Venkateswaran
Chief Executive Officer



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

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Last Amended on

21/01/2025

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic 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 Testing				
1	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Coated Material	Coating Thickness Measurement	IS:6012
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Steel	Mass for Zinc Coating	IS 6745:1972, ISO 1461:2022, BS 443
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zinc Coated Steel	Uniformity of Zinc coating(Dip test)	IS 2633:1986, ISO 1461:2009, BS:443
4	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Zn Coated Steel	Adhesion Test	IS 2629:1985, ISO 1461
5	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Chromium (Cr)	ASTM E1251-17a
6	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper	IS 11035
7	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Copper (Cu)	ASTM E1251-17a
8	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Iron	IS 11035
9	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Iron (Fe)	ASTM E1251-17a
10	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Lead (Pb)	ASTM E1251-17a
11	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Magnesium	IS 11035
12	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Magnesium (Mg)	ASTM E1251-17a
13	CHEMICAL- METALS & ALLOYS	Aluminium & its Alloys	Manganese	IS 11035
14	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Manganese (Mn)	ASTM E1251-17a
15	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Nickel (Ni)	ASTM E1251-17a
16	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon	IS 11035
17	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Silicon (Si)	ASTM E1251-17a
18	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Tin (Sn)	ASTM E1251-17a

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



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19	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium	IS 11035
20	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Titanium (Ti)	ASTM E1251-17a
21	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc	IS 11035
22	CHEMICAL- METALS & ALLOYS	Aluminium & its alloys	Zinc (Zn)	ASTM E1251-17a
23	CHEMICAL- METALS & ALLOYS	Aluminium and its alloys	Chromium	IS 11035
24	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Molybdenum	IS 8811
25	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Vanadium	IS 8811
26	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Aluminium	IS 8811
27	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Carbon	IS 8811
28	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Chromium	IS 8811
29	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Copper	IS 8811
30	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Manganese	IS 8811
31	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Phosphorous	IS 8811
32	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Silicon	IS 8811
33	CHEMICAL- METALS & ALLOYS	Plain Carbon Steel & Alloy Steel	Sulphur	IS 8811
34	CHEMICAL- METALS & ALLOYS	Stainless Steel	Aluminium (by Emission Spectrometer)	IS 9879
35	CHEMICAL- METALS & ALLOYS	Stainless Steel	Carbon (by Emission Spectrometer)	IS 9879
36	CHEMICAL- METALS & ALLOYS	Stainless Steel	Chromium (by Emission Spectrometer)	IS 9879
37	CHEMICAL- METALS & ALLOYS	Stainless Steel	Copper (by Emission Spectrometer)	IS 9879
38	CHEMICAL- METALS & ALLOYS	Stainless Steel	Manganese (by Emission Spectrometer)	IS 9879



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39	CHEMICAL- METALS & ALLOYS	Stainless Steel	Molybdenum (by Emission Spectrometer)	IS 9879
40	CHEMICAL- METALS & ALLOYS	Stainless Steel	Nickel (by Emission Spectrometer)	IS 9879
41	CHEMICAL- METALS & ALLOYS	Stainless Steel	Phosphorous (by Emission Spectrometer)	IS 9879
42	CHEMICAL- METALS & ALLOYS	Stainless Steel	Silicon (by Emission Spectrometer)	IS 9879
43	CHEMICAL- METALS & ALLOYS	Stainless Steel	Sulphur (by Emission Spectrometer)	IS 9879
44	CHEMICAL- METALS & ALLOYS	Stainless Steel	Vanadium (by Emission Spectrometer)	IS 9879
45	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
46	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:
47	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
48	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
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Determination Instrument security Factor (ISF)	IEC 61869-2:2012, IS 16227- part 2
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Determination of Composite error	IEC 61869-2:2012 IS 16227- part 2
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer	Determination of knee point emf and exciting current	IS 16227-2: 2016 IEC 61869-2
52	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, (Withdrawn Standard) IS 2705 Pt 4



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53	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
54	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
55	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
56	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
57	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
58	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
59	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)
60	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



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61	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)
62	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
63	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)
64	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
65	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
66	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



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67	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
68	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)
69	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
70	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)
71	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)
72	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)
73	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)
74	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
75	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



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76	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 :
77	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
78	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)
79	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):
80	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)
81	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)
82	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)
83	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)
84	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Discharge / Earthing /Rescue Rod	Lightning Impulse Voltage withstand	RDSO specification ETI/PSI/14(1/86), IS 2071-1:2016, IEC-60060-1
85	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Wrought Al.Wire	Resistance / Conductivity / Resistivity	IS 2067
86	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	ACSR/ACASR/AAC/AAAC	Electrical Resistance/Resistivity	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)



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87	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Aluminium Alloy Redraw Wire	Resistance / Conductivity /Resistivity	IS 9997
88	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-4):1984, IS 8130:2013, IS 10810 (Part-5)
89	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
90	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
91	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
92	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
93	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator / String(up to 33 kV Grade)	Mechanical Test (24 Hrs)	IS 731 (amendment 6)
94	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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95	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
96	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator(145 kV Grade)	Dry Power Frequency voltage withstand	Withdrawn Standard IS 2544
97	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
98	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
99	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
100	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
101	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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102	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
103	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
104	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator/String (Up to 33 kV Grade)	Lightning Impulse Voltage Withstand & flashover (Dry)	IS 2099: 1986 (Withdrawn Standard), IEC-60168: 2001, IEC-60137: 2008, ANSI C29.7
105	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
106	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
107	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
108	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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109	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Ceramic/Glass Insulator/String (Up to 33 KV Grade)	Wet Power frequency voltage withstand / flashover	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
110	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Circuit Breaker	HV Test	IS/IEC 60947(Part-2)
111	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Circuit Breaker	Temperature Rise	IS/IEC:60947(Part-2)
112	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Clamps and Connector	DC Resistance	IS 5561
113	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Clamps and Connector	Temperature Rise	IS 5561: 2018, ANSI/NEMA CC-1
114	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Clamps and Connector	visual examination and dimension check	IS 5561
115	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composit Insulator	Water Diffusion test	IEC 62231 : 2006, ANSI C.29.13 : 2000, IEC 62217
116	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(POLY MER)/01
117	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator (solid core with polymeric housing)	Assembled Core Load time test	IEC 62231 : 2006, IEC 61109



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118	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
119	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator (solid core with polymeric housing)	Dry Power Frequency Voltage withstand / flashover	IEC 62231-2006, IEC 62217
120	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator (solid core with polymeric housing)	Dye Penetration test	IEC 62231-2006, IEC 61109: 2008, IEC 62217
121	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator (solid core with polymeric housing)	Galvanizing	IEC 62231-2006, IEC 61109: 2008, IEC 60383-1
122	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator (solid core with polymeric housing)	Mechanical Load test	IEC 62231:2006, IEC 61109
123	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator (Solid core with polymeric housing)	Wet Power Frequency Voltage withstand / flashover	IEC 62231-2006, IEC: 60060-1 : 2010, IEC 61109: 2008, IEC 60383-1
124	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulator , (Solid core with polymeric housing)	Dry Lightning Impulse withstand/flashover voltage	IEC 62231-2006, IEC: 60060-1 : 2010, IEC 60383-1: 1993, IEC 61109
125	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
126	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulators	Reference Dry Power Frequency test	IEC 62231:2006, IEC 62217
127	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulators	Reference Voltage and Temperature for verification test	IEC 62231:2006, IEC 62217
128	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Composite Insulators	Verification of max. design cantilever load	IEC 62231



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129	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Copper rod/bar/strip	Resistance / Conductivity / Resistivity	IS 191: 2007, IS 1897 : 2008, IS 3635: 1966, IS 613
130	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Discharge / Earthing Rod / Rescue Rod	Dry / Wet Power Frequency Voltage withstand	ETI/OHE/51(9/87), IS 2071(Part-1) : 2016, IEC-60060-1
131	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Distribution Box	HV Test	IS/IEC 60947(Part-1)
132	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Distribution Box	Temperature Rise	IS/IEC 60947(Part-1)
133	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Earth Wire	Electrical Resistance/Resistivity	IS 12776
134	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	EC Grade Al.Rod	Resistance/Conductivity/Resistivity	IS 5484
135	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
136	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
137	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
138	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
139	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Indoor Post Insulator of Organic Materials above 1 KV	Mechanical test	IS 9431



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140	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulated Cable Accessories	Electrical Ageing Test	NFC 33004: 1998, NFC 33020
141	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulated Cable Accessories	Electrical Continuity Test	NFC 33020 : 1998, NFC 33020 : 2013, NFC 33021
142	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulated Cable Accessories	Mechanical Test	NFC 33020 : 1998, NFC 33041: 1998, NFC 33040:1998, NFC 33021: 1998, NFC 33020
143	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulated Cable Accessories	Visual and Dimensional Check	NFC 33020 : 1998, NFC 33020 : 2013, NFC 33021 : 1998, NFC 33021 : 2013,NFC 33040 : 1998, NFC 33040 : 2013,NFC 33041: 1998
144	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
145	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
146	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Interconnecting Bus Bars for AC Voltage Up to 36 KV	Impulse Voltage	IS 8084
147	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Interconnecting Bus Bars for AC Voltage Up to 36 KV	Power Frequency Voltage Withstand	IS 8084
148	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Interconnecting Bus Bars for AC Voltage Up to 36 KV	Temperature Rise	IS 8084
149	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Low Carbon GS wire / formed wire	Resistance / Conductivity / Resistivity	IS 3975: 1999, IS 10810-42 : 1984, IS 12048
150	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



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151	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
152	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
153	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 2121 (Part-3) : 1992, IS 2486(Part-1): 1993, IS 2121 (Part-1) : 1981, IS 12048
154	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), IS 2121 (Part-2): 1981, IS 2486(Part-1)
155	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
156	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Wrought Al.Wire	Resistance / Conductivity / Resistivity	IS 3635
157	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 , Barbed Wire Galvanized Stay Strand)	Bend	IS 1599
158	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 , Barbed Wire Galvanized Stay Strand)	Ultimate Tensile Strength	IS 1608-Part 1
159	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 , Barbed Wire Galvanized Stay Strand)	Yield Strength	IS 1608 -Part 1
160	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 , Barbed Wire Galvanized Stay Strand)	Elongation%	IS 1608 part 1
161	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Breaking Load of all Individual Al Wires	ASTM B-524: 2011, BS 215-1
162	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Breaking Load of All Individual Al. Wire	IS 398 (Part 1)



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163	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Diameter of Individual Wire (Al.)	IS 398 (Part 1)
164	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Freedom from defects	IEC 61089: 1991, BS 215-1
165	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Freedom from Defects	IS 398 (Part 1)
166	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Lay Ratio	IS 398 (Part 1)
167	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Measurement of Dia of Individual Wire (Al)	BS 215-1: 1970, IEC 61089
168	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Measurement of Lay Ratio	BS 215-1: 1970, ASTM B-524
169	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Wrapping	IS 398 (Part 1) :
170	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Wrapping Test	BS 215-1
171	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AA Conductor	Wrapping Test (Al)	ASTM B524
172	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAA Conductors	Breaking Load of All Individual Al. Wires.	IS 398 (Part 4)
173	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAA Conductors	Diameter of Individual Wire (Al.)	IS 398 (Part 4)
174	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAA Conductors	Elongation	IS 398 (Part 4)
175	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAA Conductors	Freedom From Defects	IS 398 (Part 4)
176	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAA Conductors	Lay Ratio	IS 398 (Part 4)



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177	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAA Conductors	Wrapping	IS 398 (Part 4) :
178	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAAC Conductor	Freedom from Defects	BS 3242
179	MECHANICAL-MECHANICAL PROPERTIES OF METALS	AAAC Conductor	Measurement of Dia of Individual Wire(Al.)	ASTM B-399
180	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
181	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Breaking load of Individual Wire (Al. & Steel)	IEC 61089
182	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Diameter of Individual Wire (Al. & Steel)	IS 398 (Part 2): 1996, IS 398 (Part 5)
183	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
184	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
185	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Freedom from Defects	IS 398 (Part 2): 1996, IS 398 (Part 5)
186	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
187	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Measurement of Lay Ratio	BS 215-2: 1970, ASTM B-711: 2005, IEC 61089: 1991, SS 4240814: 1989, ASTM B-232
188	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Stress-Strain on Steel Core and Conductor	BS EN 50182
189	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:
190	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Ultimate Breaking Load	IEC 61089 :1991, ASTM B-232: 2011, ASTM B-711: 2005, BS 215-2



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191	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductor	Wrapping (Al & Steel)	ASTM B-232: 2005, ASTM B-711: 2005, IEC 61089: 1991, BS 215-2
192	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Breaking Load of All Individual Al.Steel Wire	IS 398 (Part 2) : 1996, IS 398 (Part 5)
193	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Ductility (Elongation /Torsion)	IS 398 (Part 2) : 1996, IS 398 (Part 5)
194	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Measurement of Lay Ratio	IS 398 (Part 2): 1996, IS 398 (Part 5)
195	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Stress -Strain on Steel Core	IS 398 (Part 2)
196	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Stress-Strain on Conductor	IS 398 (Part -2)
197	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Surface Condition	IS 398 (Part 2) : 1996, IS 398 (Part 5)
198	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Ultimate Breaking Load	IS 398 (Part 2): 1996, IS 398 (Part 5)
199	MECHANICAL-MECHANICAL PROPERTIES OF METALS	ACSR Conductors	Wrapping (Al. & Steel)	IS 398 (Part 2): 1996, IS 398 (Part 5)
200	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, Barbed Wire Galvanized Stay Strand	% Reduction of area	IS 1608 -Part 1:
201	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Chain Pulley Block	Proof Load	IS 3832
202	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Bend	IEC 61284: 1997, BS 3288-1
203	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Bend	IS 2121 (Part 1)
204	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Clamp Slip Strength	BS 3288-1: 2014, IEC 61284



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205	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Clamp Slip Strength	IS 2121 (Part 1)
206	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Clamp Slip Strength	IS 2121 (Part 3)
207	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Failing Load	IEC 61284: 1997, BS 3288-1
208	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Failing Load	IS 2121 (Part 2)
209	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Mechanical Strength	IEC 61284: 1997, BS 3288-1
210	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Mechanical Strength	IS 2121 (Part 3)
211	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Resilience	IEC 61284: 1997, BS 3288-1
212	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Resilient	IS 2121 (Part 1)
213	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Tensile Strength	BS 3288-1: 2014, IEC 61284
214	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Tensile Strength	IS 2121 (Part 1)
215	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Verification of Dimension	BS 3288-2: 2014, IEC 61284
216	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)
217	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Visual Examination	IEC 61284: 1997, BS 3288-2
218	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):



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219	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Wrapping	BS 3288-1: 2014, IEC 61284
220	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Conductor and Earth Wire Accessories	Wrapping	IS 2121 (Part 1)
221	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Couplers	Distortion	IS 2750
222	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Couplers	Slip	BS EN74-1
223	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Danger Notice Plate / Danger Board	Dimension Verification	IS:2551
224	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Danger Notice Plates / Danger Board	Visual Examination	IS:2551
225	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Deformed Steel Bars & Wires	Mass/Meter	IS 1786
226	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Earth Wire	Breaking Force	IS 12776
227	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Earth Wire	Diameter of Individual Wire	IS 12776
228	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Earth Wire	Elongation%	IS 12776
229	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Earth Wire	Mass/Meter	IS 12776
230	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Earth Wire	Torsion	IS 12776:
231	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Earth Wire	Wrapping	IS 12776
232	MECHANICAL-MECHANICAL PROPERTIES OF METALS	EC Grade Al Rod	Dimension Verification	IS 5484



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233	MECHANICAL-MECHANICAL PROPERTIES OF METALS	EC Grade Al Rod	Freedom From Defects	IS 5484
234	MECHANICAL-MECHANICAL PROPERTIES OF METALS	EC Grade Al Rod	Tensile	IS 5484
235	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Barbed Wire	Dimension Verification	IS 278
236	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Barbed Wire	Ductility (Wrapping)	IS 278
237	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Barbed Wire	Mass of Wire	IS 278
238	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Barbed Wire, Earh Wire	Freedom from Defects	IS 278/2009, IS 12776
239	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Stay Strand	Diameter of Individual Wire	IS 2141:2000, BS 183
240	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Stay Strand	Ductility/Wrapping	IS 2141:2000, BS 183
241	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Stay Strand	Freedom From Defects	IS 2141:2000, BS 183
242	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Galvanized Stay Strand, Earth Wire	Lay Ratio	IS 2141:2000, BS:183:1972, IS 12776
243	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulator	Deflection	BS 3288-1: 2014, IEC 61284
244	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulator	Mechanical Strength	IEC 61284: 1997, BS 3288-1
245	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulator	Slip Strength	BS 3288-1: 2014, IEC 61284
246	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulator	Verification of Dimension	IEC 61284: 1997, BS 3288-2



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247	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulator	Visual Examination	BS 3288-1: 2014, IEC 61284
248	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulators	Deflection	IS 2486 (Part 1)
249	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulators	Mechanical Strength	IS 2486 (Part 1)
250	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulators	Slip Strength/Slip vs torque test	IS 2486 (Part 1)
251	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulators	Verification of Dimension	IS 2486 (Part 2)
252	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metal Fittings of Insulators	Visual Examination	IS 2486 (Part 1)
253	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steel Wire	Dimension Verification	IS 280
254	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steel Wire	Freedom from Defects	IS 280
255	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steel Wire	Tensile	IS 280
256	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steel Wire	Wrapping	IS 280
257	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Mild Steel Wire , Wrought Al , Al Alloy Wire , EC Grade Al Rod , Earth Wire	Wrapping	IS 1755
258	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Point Hook with Shank	Proof Load	IS 15560
259	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Power Connector	Cantilever Strength Test	IS 5561
260	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Power Connector	Dimension Verification	IS 5561



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261	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Power Connector	Freedom From Defects	IS 5561
262	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Power Connector	Pull out test	IS 5561
263	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spacer Damper	Assembly Torque Test	IEC 61854: 1998, IS 10162
264	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spacer Damper	Clamp Bolt Torque Test	IS 10162: 1982, IEC 61854
265	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spacer Damper	Verification of Dimension	IS 10162: 1982, IEC 61854
266	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Spacer Damper	Visual Examination	IEC 61854: 1998, IS 10162
267	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Steel Wire Rope	Breaking Force	IS 2266
268	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Vibration Damper	Clamp Bolt Torque Test	IS 9708: 1993, IEC 61897
269	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Vibration Damper	Clamp Slip Test/Attachment of clamp to messenger cable	IEC 61897: 1998, IS 9708
270	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Vibration Damper	Mass Pull Off	IS 9708: 1993, IEC 61897
271	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Vibration Damper	Verification of Dimension	IS 9708: 1993, IEC 61897
272	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Vibration Damper	Visual Examination	IS 9708: 1993, IEC 61897
273	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought Al , Al Alloy Wire	Dimension Verification	IS 739
274	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought Al , Al Alloy Wire	Freedom from Defects	IS 739



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275	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought Al , Al Alloy Wire	Tensile	IS 739
276	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Wrought Al , Al Alloy Wire	Wrapping	IS 739