

**NABL ACCREDITED TESTING SCOPE IN MECHANICAL DISCIPLINE**

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	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Mid-span Joints and Repair Sleeves for Conductors	Verification of Dimensions - Length	IS 2121 (Part-2), Cl. No. 6.3
2	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Preformed Armour Rod	Verification of Dimensions	IS 2121 (Part-1), Cl. No. 7.3
3	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminium Stranded conductor	Diameter of Individual Aluminum and Galvanized Steel Wires	IS 398 (Part-1), Cl. No. 12.2
4	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Conductors Galvanized Steel Reinforced	Breaking Load	IS 398 (Part-2), Cl. No. 13.3
5	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Conductors Galvanized Steel Reinforced	Elongation	IS 398 (Part-2), Cl. No. 13.4.2
6	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Conductors Galvanized Steel Reinforced	Measurement of Diameter of Individual Aluminum and Galvanized Steel Wires	IS 398 (Part-2), Cl. No. 13.2
7	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Conductors Galvanized Steel Reinforced	Measurement of Lay Ratio	IS 398 (Part-2), Cl. No. 13.8
8	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Conductors Galvanized Steel Reinforced	Visual Examination (Freedom from defect)	IS 398 (Part-2), Cl. No. 7
9	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Conductors Galvanized Steel Reinforced	Wrapping	IS 398 (Part-2), Cl. No. 13.5
10	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Conductors Galvanized Steel Reinforced for Extra High Voltage, 400 kV and above	Surface Condition	IS 398, (Part-5), Cl. No. 13.10
11	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Conductors Galvanized Steel Reinforced for Extra High Voltage, 400 kV and above	Wrapping	IS 398 (Part-5), Cl. No. 13.7

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12	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Conductors Galvanized Steel Reinforced for Extra High Voltages - 400 kV and above	Breaking Load - Steel Strand	IS 398 (Part-5), Cl. No. 13.5.2
13	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Conductors Galvanized Steel Reinforced for Extra High Voltages - 400 kV and above	Diameter of Individual Aluminum and Galvanized Steel Wires	IS 398 (Part-5), Cl. No. 13.3
14	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Conductors Galvanized Steel Reinforced for Extra High Voltages - 400 kV and above	Elongation	IS 398 (Part-5), Cl. No. 13.6.2
15	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Conductors Galvanized Steel Reinforced for Extra High Voltages - 400 kV and above	Measurement of Lay Ratio	IS 398 (Part-5), Cl. No. 13.4
16	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Conductors Galvanized Steel Reinforced for Extra High Voltages - 400 kV and above	Visual Examination (Freedom from Defect)	IS 398 (Part-5), Cl. No. 13.2
17	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Conductors, Galvanized Steel Reinforced	Surface Condition	IS 398 (Part-2), Cl. No. 13.9
18	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Materials, Alloys & Products	Brinell Hardness	IS 1500 (Part-1)
19	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Materials, Alloys & Products, Ferrous Materials, Alloys & Products	Rockwell Hardness	IS 1586 (Part-1)
20	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Materials, Alloys & Products, Ferrous Materials, Alloys & Products	Rockwell Hardness	IS 1586 (Part-1), Cl. No. 7
21	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Materials, Alloys & Products, Ferrous Materials, Alloys & Products, Copper Materials, Alloys & Products	Percentage Elongation	IS 1608 (Part-1)
22	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Materials, Alloys & Products, Ferrous Materials, Alloys & Products, Copper Materials, Alloys & Products	Percentage Reduction of Area	IS 1608 (Part-1)

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23	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Materials, Alloys & Products, Ferrous Materials, Alloys & Products, Copper Materials, Alloys & Products	Tensile Strength	IS 1608 (Part-1)
24	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Materials, Alloys & Products, Ferrous Materials, Alloys & Products, Copper Materials, Alloys & Products	Yield Strength	IS 1608 (Part-1)
25	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Stranded Conductor	Visual Examination (Freedom from Defect)	IS 398 (Part-1), Cl. No. 6
26	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Stranded Conductors	Measurement of Lay Ratio	IS 398 (Part-1), Cl. No. 12.6
27	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Aluminum Stranded Conductors	Wrapping	IS 398 (Part-1), Cl. No. 12.4
28	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductor and Earth wire Accessories for overhead Power lines: (1) Mid-span Joints and Repair Sleeves for Conductors (2) Preformed Armour Rod (3) Earth wire (Suspension Clamp, Tension Clamp, Mid-span Joints, Copper Earth Bonds)	Verification of Dimensions - Diameter	IEC 61284, Cl. No. 8
29	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductor and Earth wire Accessories for overhead Power lines: (1) Mid-span Joints and Repair Sleeves for Conductors (2) Preformed Armour Rod (3) Earth wire (Suspension Clamp, Tension Clamp, Mid-span Joints, Copper Earth Bonds)	Verification of Dimensions - Length	IEC 61284, Cl. No. 8
30	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Conductor and Earth wire Accessories for overhead Power lines: (1) Mid-span Joints and Repair Sleeves for Conductors (2) Preformed Armour Rod (3) Earth wire (Suspension Clamp, Tension Clamp, Mid-span Joints, Copper Earth Bonds)	Visual Examination	IEC 61284, Cl. No. 7

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31	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Earth Wire (Suspension Clamp, Tension Clamp, Mid-span Joints, Copper Earth Bonds)	Slip Strength	IS 2121 (Part-3), Cl. No. 5.4
32	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Earth Wire (Suspension Clamp, Tension Clamp, Mid-span Joints, Copper Earth Bonds)	Verification of Dimensions - Diameter	IS 2121 (Part-3), Cl. No. 5.2
33	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Earth Wire (Suspension Clamp, Tension Clamp, Mid-span Joints, Copper Earth Bonds)	Verification of Dimensions - Length	IS 2121 (Part-3), Cl. No. 5.2
34	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Earth Wire (Suspension Clamp, Tension Clamp, Mid-span Joints, Copper Earth Bonds)	Visual Examination	IS 2121 (Part-3), Cl. No. 5.2
35	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Earth Wire Suspension Clamp, Tension Clamp, Mid-span Joints.	Mechanical Strength	IS 2121 (Part-3)
36	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, Alloys & Products	Brinell Hardness	IS 1500 (Part-1)
37	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Ferrous materials, alloys & products	Thickness of Zinc Coating	IS 1573, Cl. No. 4.2
38	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Metal & Alloys	Galvanizing	IS 2633, Cl. No.4
39	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Mid-span Joints and Repair Sleeves	Failing Load	IS 2121 (Part-2), Cl. No. 6.4
40	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Mid-span Joints and Repair Sleeves for Conductors	Verification of Dimensions - Length	IS 2121 (Part-2), Cl. No. 6.3
41	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Mid-span Joints and Repair Sleeves for Conductors	Visual Examination	IS 2121 (Part-2), Cl. No. 6.2

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42	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Mid-Span Joints and Repair Sleeves for Conductors, Earth Wire Accessories	Failing Load	IEC 61284, Cl. No. 11.5
43	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Mid-span Joints and Repair Sleeves for Conductors, Earth Wire Accessories	Tensile Strength	IEC 61284, Cl. No. 11.5
44	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Midspan joint and repair sleeves for conductor	Verification of Dimension - Length	IS 2121 (Part-2), Cl. No. 6.3
45	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Tension Joints & Power Connectors	Verification of Dimensions - Diameter	IS 2121 (Part-4), Cl. No. 6.3
46	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Tension Joints & Power connectors	Verification of Dimensions - Diameter	IS 5561, Cl. No. 19
47	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Tension Joints & Power Connectors	Verification of Dimensions - Length	IS 2121 (Part-4), Cl. No. 6.3
48	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Tension Joints & Power Connectors	Verification of Dimensions - Length	IS 5561, Cl. No. 19
49	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Non-Tension Joints & Power Connectors	Visual Examination	IS 2121 (Part-4), Cl. No. 6.2
50	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Preformed Armour Rod	Bend	IS 2121 (Part-1), Cl. No. 7.10
51	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Preformed Armour Rod	Resilience	IS 2121 (Part-1), Cl. No. 7.11
52	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Preformed Armour Rod	Slip Strength	IS 2121 (Part-1), Cl. No. 7.7

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53	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Preformed Armour Rod	Tensile Strength	IS 2121 (Part-1), Cl. No. 7.4.1
54	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Preformed Armour Rod	Verification of Dimensions - Length	IS 2121 (Part-1), Cl. No. 7.3
55	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Preformed Armour Rod	Verification of Dimensions - Length	IS 2121 (Part-1), Cl. No. 7.3
56	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Preformed Armour Rod	Visual Examination	IS 2121 (Part-1), Cl. No. 7.2
57	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Transmission Line Equipment and Accessories such as Insulator Fittings, Suspension Clamps, Tension Clamps both Bolted & Crimping, Non- Tension Clamps & Joints	Verification of Dimensions - Diameter	IEC 61284, Cl. No. 8
58	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Transmission Line Equipment and Accessories such as Insulator Fittings, Suspension Clamps, Tension Clamps both-Bolted & Crimping, Non- Tension Clamps & Joints	Damage & Failure Load	IEC 61284, Cl. No. 11.3 & 11.4.1, Method-B
59	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Transmission Line Equipment and Accessories such as Insulator Fittings, Suspension Clamps, Tension Clamps both-Bolted & Crimping, Non- Tension Clamps & Joints	Damage & Failure Load	IEC 61284, Cl. No. 11.3 & 11.4.1, Method-B
60	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Transmission Line Equipment and Accessories such as Insulator Fittings, Suspension Clamps, Tension clamps both-Bolted & Crimping, Non- Tension Clamps & Joints	Mechanical Strength	IS 2486 (Part-1), Cl. No. 11.2
61	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Transmission Line Equipment and Accessories such as Insulator Fittings, Suspension Clamps, Tension Clamps both-Bolted & Crimping, Non- Tension Clamps & Joints	Mechanical Strength	IS 2486 (Part-1), Cl. No. 11.2

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62	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Transmission Line Equipment and Accessories such as Insulator Fittings, Suspension Clamps, Tension Clamps both-Bolted & Crimping, Non- Tension Clamps & Joints	Slip Strength	IEC 61284, Cl. No. 11.4.2
63	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Transmission Line Equipment and Accessories such as Insulator Fittings, Suspension Clamps, Tension Clamps both-Bolted & Crimping, Non- Tension Clamps & Joints	Slip Strength	IEC 61284, Cl. No. 11.5
64	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Transmission Line Equipment and Accessories such as Insulator Fittings, Suspension Clamps, Tension Clamps both-Bolted & Crimping, Non- Tension Clamps & Joints	Slip Strength	IS 2486 (Part-1), Cl. No. 11.1.1
65	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Transmission Line Equipment and Accessories such as Insulator Fittings, Suspension Clamps, Tension Clamps both-Bolted & Crimping, Non- Tension Clamps & Joints	Slip Strength	IS 2486 (Part-1), Cl. No. 11.1.2 & 3
66	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Transmission Line Equipment and Accessories such as Insulator Fittings, Suspension Clamps, Tension Clamps both-Bolted & Crimping, Non- Tension Clamps & Joints	Verification of Dimensions - Diameter	IS 2486 (Part-1), Cl. No. 8
67	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Transmission Line Equipment and Accessories such as Insulator Fittings, Suspension Clamps, Tension Clamps both-Bolted & Crimping, Non- Tension Clamps & Joints	Verification of Dimensions - Length	IS 2486 (Part-1), Cl. No. 8
68	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Transmission Line Equipment and Accessories such as Insulator Fittings, Suspension Clamps, Tension Clamps both-Bolted & Crimping, Non- Tension Clamps & Joints	Visual Examination	IEC 61284, Cl. No. 7

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69	MECHANICAL- MECHANICAL PROPERTIES OF METALS	Transmission Line Equipment and Accessories such as Insulator Fittings, Suspension Clamps, Tension Clamps both-Bolted & Crimping, Non- Tension Clamps & Joints	Visual Examination	IS 2486 (Part-1), Cl. No. 5
70	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Clamp Bolt Torque	IEC 61897, Cl. No. 7.7
71	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Clamp Bolt Torque	IS 9708, Cl. No. 7.10
72	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Galvanizing (Uniformity of Zinc Coating)	IS 9708, Cl. No.7.7
73	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Mass Pull-off	IEC 61897, Cl. No. 7.8
74	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Mass Pull-off	IS 9708, Cl. No. 7.6
75	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Verification of Dimension - Diameter	IS 9708, Cl. No. 7.3
76	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Verification of Dimension - Length	IEC 61897, Cl. No. 7.2
77	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Verification of Dimension - Length	IS 9708, Cl. No. 7.3
78	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Verification of Dimensions - Diameter	IEC 61897, Cl. No. 7.2
79	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Visual Examination	IEC 61897, Cl. No. 7.1
80	MECHANICAL- NOISE & VIBRATION	Vibration Damper	Visual Examination	IS 9708, Cl. No. 7.2