National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : I.T.L. TESTING LAB, INTERNATIONAL TRANSMISSION LIMITED, VILLAGE-PUNDHE, MUMBAI-NASHIK HIGHWAY, SHAHAPUR, THANE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Fabricated Iron and Steel Articles	Adhesion Test	ISO 1461
2	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Hot Dip Iron and Steel	Adhesion Test	IS 2629
3	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic Coating	Coating Thickness	ASTM E 376
4	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic coatings	Mass of zinc coating	IS 6745
5	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Metallic coatings	Uniformity of coating	IS 2633
6	CHEMICAL- METALLIC COATINGS & TREATMENT SOLUTIONS	Overhead Lines	Hot dip galvanizing test	IEC 61284
7	CHEMICAL- METALS & ALLOYS	Aluminum & its alloys	Chromium (Cr)	ASTM E1251
8	CHEMICAL- METALS & ALLOYS	Aluminum & its alloys	Copper (Cu)	ASTM E 1251
9	CHEMICAL- METALS & ALLOYS	Aluminum & its alloys	Iron (Fe)	ASTM E 1251
10	CHEMICAL- METALS & ALLOYS	Aluminum & its alloys	Lead (Pb)	ASTM E 1251
11	CHEMICAL- METALS & ALLOYS	Aluminum & its alloys	Magnesium (Mg)	ASTM E 1251
12	CHEMICAL- METALS & ALLOYS	Aluminum & its alloys	Manganese (Mn)	ASTM E 1251
13	CHEMICAL- METALS & ALLOYS	Aluminum & its alloys	Nickel (Ni)	ASTM E 1251
14	CHEMICAL- METALS & ALLOYS	Aluminum & its alloys	Silicon (Si)	ASTM E 1251
15	CHEMICAL- METALS & ALLOYS	Aluminum & its alloys	Tin (Sn)	ASTM E 1251
16	CHEMICAL- METALS & ALLOYS	Aluminum & its alloys	Titanium (Ti)	ASTM E 1251

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17	CHEMICAL- METALS & ALLOYS	Aluminum & its alloys	Zinc (Zn)	ASTM E 1251
18	CHEMICAL- METALS & ALLOYS	Low alloy steel	Carbon (C)	ASTM E 415
19	CHEMICAL- METALS & ALLOYS	Low alloy steel	Carbon (C)	IS 8811
20	CHEMICAL- METALS & ALLOYS	Low alloy steel	Chromium (Cr)	ASTM E 415
21	CHEMICAL- METALS & ALLOYS	Low alloy steel	Chromium (Cr)	IS 8811
22	CHEMICAL- METALS & ALLOYS	Low alloy steel	Manganese (Mn)	ASTM E 415
23	CHEMICAL- METALS & ALLOYS	Low alloy steel	Manganese (Mn)	IS 8811
24	CHEMICAL- METALS & ALLOYS	Low alloy steel	Molybdenum (Mo)	ASTM E 415
25	CHEMICAL- METALS & ALLOYS	Low alloy steel	Molybdenum (Mo)	IS 8811
26	CHEMICAL- METALS & ALLOYS	Low alloy steel	Nickel (Ni)	ASTM E 415
27	CHEMICAL- METALS & ALLOYS	Low alloy steel	Nickel (Ni)	IS 8811
28	CHEMICAL- METALS & ALLOYS	Low alloy steel	Phosphorus (P)	ASTM E 415
29	CHEMICAL- METALS & ALLOYS	Low alloy steel	phosphorus (P)	IS 8811
30	CHEMICAL- METALS & ALLOYS	Low alloy steel	Silicon (Si)	ASTM E 415
31	CHEMICAL- METALS & ALLOYS	Low alloy steel	Silicon (Si)	IS 8811
32	CHEMICAL- METALS & ALLOYS	Low alloy steel	Sulfur (S)	ASTM E 415
33	CHEMICAL- METALS & ALLOYS	Low alloy steel	Sulfur (S)	IS 8811
34	ELECTRICAL- TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Armour rod	Resilience test	IS 10162

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35	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductor and earth wire accessories for overhead lines	Mechanical strength test	IS 2121 Part III
36	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductor and earth wire accessories for overhead lines	Mechanical strength test	IS 2121 Part IV
37	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductor and earth wire accessories for overhead lines	Visual/Dimension Check	IS 2121 Part II
38	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductor and earth wire accessories for overhead lines	Visual/Dimension Check	IS 2121 Part-I
39	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductor and earth wire accessories for overhead power lines	Electrical resistance test	IS 2121 Part III
40	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductor and earth wire accessories for overhead power lines	Electrical resistance test	IS 2121 Part IV
41	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductors and earth wire accessories for overhead lines	Bend test	IS 2121 Part I
42	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductors and earth wire accessories for overhead lines	Slip strength test	IS 2121 Part I
43	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductors and earth wire accessories for overhead lines	Slip strength test	IS 2121 Part IV
44	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductors and earth wire accessories for overhead lines	Visual/Dimension Check	IS 2121 Part IV
45	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductors and earth wire accessories for overhead lines.	Resilient test	IS 2121 Part I

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46	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductors and earth wire accessories for overhead lines.	Visual/Dimension Check	IS 2121 Part III
47	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductors and earth wire accessories for overhead power lines	Electric resistance test	IS 2121 Part I
48	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductors and earth wire accessories for overhead power lines	Electrical resistance test	IS 2121 Part II
49	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Conductors and earth wire accessories for overhead power lines	Tensile strength test	IS 2121 Part I
50	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulator and conductor fittings for overhead power lines	Electrical resistance test	BS 3288 Part I
51	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulator and conductor fittings for overhead power lines	Heating cycle test	IS 2121 Part II
52	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulator and conductor fittings for overhead power lines	Mechanical strength test	BS 3288 Part I
53	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulator and Conductor Fittings for overhead power lines	Visual/Dimension Check	BS 3288 Part II
54	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulator and Conductor Fittings for overhead power lines	Visual/Dimension Check	BS 3288 Part III
55	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulator and Conductor Fittings for overhead power lines	Visual/Dimension Check	BS 3288 Part-I
56	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulator hardware and accessories for overhead transmission line above 1000 V	Vibration test on complete insulator fittings	PGCIL section VI

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57	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulators and conductor fittings for overhead power lines	Heating cycle test	BS 3288 Part I
58	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Locking Devices	Visual/Dimension Check	IS 2486 Part IV
59	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Metal fittings of insulator for overhead power lines	Electrical resistance test	IS 2486 Part I
60	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Metal fittings of insulator for overhead power lines greater than 1000 V	Visual/Dimension Check	IS 2486 Part I
61	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Metal fittings of insulator for overhead power lines greater than 1000 V	Visual/Dimension Check	IS 2486 Part II
62	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Metal fittings of insulator for overhead power lines voltage greater than 1000 V	Heating cycle test	IS 2486 Part I
63	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Metal fittings of insulator for overhead power lines with nominal voltage greater than 1000 V	Mechanical strength test	IS 2486 Part I
64	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Metal fittings of insulator for overhead power lines with nominal voltage greater than 1000 V	Slip strength test	IS 2486 Part I
65	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Overhead line fittings	Visual/Dimension Check	IEC 61284
66	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Overhead lines	Electrical resistance test	IEC 61284
67	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Overhead lines	Heating cycle test	IEC 61284

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68	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Overhead lines	Magnetic power loss test	IEC 61284
69	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Overhead lines	Mechanical damage and failure load test	IEC 61284
70	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Overhead lines	Slip strength test	IEC 61284
71	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Spacer and Spacer Dampers for Twin Horizontal Bundle Conductors	Visual/Dimension Check	IS 10162
72	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Spacers and Spacer damper for Twin horizontal Bundle conductors	Movement test	IS 10162
73	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Transmission line spacers	Characterization elastic and damping properties	IEC 61854
74	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Transmission line spacers	Clamp slip test	IEC 61854
75	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Transmission line spacers	Compression and tension test	IEC 61854
76	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Transmission line Spacers	Fatigue test	IEC 61854
77	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Transmission line spacers	Test on bolt sets	IEC 61854
78	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Transmission line spacers	Visual/Dimension Check	IEC 61854

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79	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Transmission line spacers and spacer dampers for twin horizontal bundle conductors	Compression and pull off test	IS 10162
80	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Vibration damper	Attachment of clamp to messenger cable test	IEC 61897
81	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Vibration damper	Attachments of weights to messenger cable/mass pull off test	IEC 61897
82	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Vibration Damper	Clamp bolt tightening test	IEC 61897
83	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Vibration damper	Clamp slip test	IEC 61897
84	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Vibration Damper	Damper characteristic test	IEC 61897
85	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Vibration damper	Dynamic characteristic tet	IS 9708
86	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Vibration damper	Fatigue test	IEC 61897
87	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Vibration damper	Magnetic power loss test	IS 9708
88	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Vibration damper	Mass pull off test	IS 9708
89	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Vibration damper	Resonance frequency test	IEC 61897

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90	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Vibration damper	Vibration analysis test	IEC 61897
91	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Vibration damper	Vibration analysis test	IS 9708
92	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Vibration Dampers	Visual/Dimension Check	IEC 61897
93	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Vibration Dampers for overhead power lines	Visual/Dimension Check	IS 9708
94	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Ball & Socket couplings of string insulator units	Dimension check	IEC 120
95	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Locking devices	Bend test	IEC 60372
96	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Locking devices	Bend test	IS 2486 Part IV
97	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Locking devices	Operation test	IS 2486 Part IV
98	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell hardness test	IS 1500
99	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Brinell hardness test	ISO 6506-1
100	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Percentage elongation test	IS 1608
101	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Percentage elongation test	ISO 6892

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102	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Percentage reduction in area	IS 1608
103	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Percentage reduction in area	ISO 6892
104	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Tensile strength test	IS 1608
105	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Tensile strength test	ISO 6892
106	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Yield strength	IS 1608
107	MECHANICAL-MECHANICAL PROPERTIES OF METALS	Metallic materials	Yield strength	ISO 6892