National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRICAL EQUIPMENT QUALITY ASSURANCE LABORATORY, CTI ROAD, NAYA GAON, MPPKVVCL, JABALPUR, MADHYA PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 18/10/2021 to 17/10/2023 **Last Amended on** -

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	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Conductor Resistance Test on Messenger Conductor	IS 14255 (Cl No. 10 & 6.5)
2	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	High Voltage Test	IS 10810 (Part 45)
3	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	High Voltage Test	IS 14255 (Cl No. 10,10.2.k &11.2)
4	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Hot Set test for XLPE Insulation	IS 14255 (Cl No. 10 & 5.1)
5	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Hot Set test	IS 10810 (Part 30)
6	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Insulation resistance (Volume Resistivity) test	IS 14255 (Cl No. 10.2.j, 10 & 5.1)
7	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Insulation resistance Test	IS 10810 (Part 43)
8	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Resistance Test (for Both Copper and Aluminium)	IS 8130 (Cl No. 7.3, 7.3.1)
9	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Tensile strength and elongation at break of Thermoplastic and Elastomeric Insulation and Sheath	IS 10810 (Part 7)
10	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Tensile strength and elongation at break of Thermoplastic and Elastomeric Insulation and Sheath	IS 10810 (part 7)
11	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Tensile strength and elongation at break test for XLPE insulation	IS 14255(cl 10,10.2.g,5.1))
12	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Tensile Strength at break test for XLPE Insulation	IS 14255 (Cl No. 10,10.2.g & 5.1)
13	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Tensile Test for Aluminium Wire	IS 10810 (Part 2)
14	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Tensile Test For Aluminium	IS 8130 (Cl No. 7.2.1)
15	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Test for thickness of Insulation	IS 14255 (Cl No. 10.2.f &7.2)
16	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Thickness of Thermoplastic and Elastomeric Insulation and Sheath	IS 10810 (Part 6)

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17	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Wrapping Test on phase / street light conductor	IS 14255 (Cl No. 10)
18	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Wrapping Test	IS 8130: (Cl No. 7.2.2)
19	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Breaking Load Test on Messenger Conductor	IS 14255 (Cl No. 10 & 6.5)
20	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Conductor Resistance Test	IS10810 (Part 5)
21	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Elongation Test on Messenger Conductor	IS14255(cl: 10& 11.3))
22	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Resistance Test on phase / street light conductor	IS 14255 (Cl No. 10)
23	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Tensile Test for Aluminium Wire	IS 10810 (Part 2)
24	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100 Volts	Tensile test on phase / street light conductor	IS 14255 (Cl No. 10)
25	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables For Working Voltage upto and Including 1100Volts	Wrapping Test for Aluminium Wire	IS 10810 (Part 3)
26	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100 V (XLPE and Control Cable)	Hot Set test	IS 10810 (Part 30)
27	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Annealing Test (for Copper)	IS 7098 Part 1 (Cl No. 15.2.a)
28	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Annealing Test for Copper Conductor	IS 8130 (Cl No. 7.1.2.1)
29	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Annealing Test for wire used as conductor	IS 10810 (Part 1)
30	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Conductor Resistance Test	IS 10810 (Part 5)
31	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Conductor Resistance Test	IS 7098 Part 1 (Cl No. 15.2.d)
32	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	High Voltage Test	IS 10810 (Part 45)

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33	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	High Voltage Test	IS 7098 Part 1(Cl No. 15.2.h)
34	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Hot Set test for Insulation	IS 7098 Part 1 (Cl No. 15.1.d and 15.2.f)
35	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Insulation resistance (Volume Resistivity) test	IS 7098 Part 1 (Cl No. 15.2.j & 4.1)
36	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Insulation resistance (Volume Resistivity) test	IS 5831(cl 4.1)
37	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Insulation resistance test	IS:10810 (Part 43)
38	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Resistance Test for both copper and aluminium	IS 8130 (Cl No. 7.3)
39	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Tensile strength and elongation at break of Thermoplastic and Elastomeric Insulation and Sheath	IS 10810 (Part 7)
40	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Tensile Strength and Elongation at break test for Insulation and Sheath	IS 5831 (Cl No. 4.1)
41	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Tensile Strength and Elongation at break test for Insulation and Sheath	IS 7098 Part 1 (Cl No. 15.2.g)
42	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Tensile strength and Elongation at break test for insulation and sheath	IS 7098(Part 1, cl15.2.g)
43	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Tensile Test	IS 10810 (Part 2)
44	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Test for thickness of Insulation and Sheath	IS 7098 Part 1 (Cl No. 15.2.e), (Cl No. 9, 12.3, 14.3.1, 14.3.2)
45	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Thickness of Thermoplastic and Elastomeric Insulation and Sheath	IS 10810 (Part 6)

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46	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Wrapping Test	IS 8130 (Cl No. 7.2.2)
47	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Wrapping Test (For Aluminium)	IS 7098 Part 1 (Cl No. 15.2.c)
48	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Wrapping Test	IS 10810 (Part 3)
49	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Tensile Test(For Aluminium)	IS 7098 Part 1 (Cl No. 15.2.b)
50	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables for Working Voltage upto and including 1100V (XLPE and Control Cable)	Tensile Test(For Aluminium)	IS 8130 (Cl No. 7.2.1)
51	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables(Working Voltage upto and including 1100V)(XLPE and Control Cable)	Conductor Resistance Test	IS 10810 (Part 5)
52	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables(Working Voltage upto and including 1100V)(XLPE and Control Cable)	Insulation resistance (Volume Resistivity test)	IS 5831 (cl 4.1)
53	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed Cables(Working Voltage upto and including 1100V)(XLPE and Control Cable)	Tensile Strength test for Insulation and Sheath	IS 10810 (Part 7)
54	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	"Aluminium Conductors for overhead transmission purposes (Aluminium Alloy Stranded Conductors) (AAAC)(Alunimium, Magnesium, Silicon Type"	Breaking Load Test	IS 398 (Part 4) (Cl. No. 12.2)
55	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	"Aluminium Conductors for overhead transmission purposes (Aluminium Alloy Stranded Conductors) (AAAC)(Alunimium, Magnesium, Silicon Type"	Measurement for Diameter of Individual Strands	IS 398 (Part 4) (Cl 5.1, 7.1.1, 7.1.2)
56	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	"Aluminium Conductors for overhead transmission purposes (Aluminium Alloy Stranded Conductors) (AAAC)(Alunimium, Magnesium, Silicon Type"	Measurement of Length of Conductor/Drum	IS 398 (Part 4) (Cl. No. 10.1)
57	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	"Aluminium Conductors for overhead transmission purposes (Aluminium Alloy Stranded Conductors) (AAAC)(Alunimium, Magnesium, Silicon Type"	Resistance Test	IS 398 (Part 4)(Cl No. 12.4)
58	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Conductors Aluminized Steel Reinforced)	Breaking Load Test	IS 398 (Part 3) (Cl. No. 12.2)
59	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Conductors Aluminized Steel Reinforced)	Measurement of Length of Conductor/Drum	IS 398 (Part 3)(Cl 10.1)

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60	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Conductors Aluminized Steel Reinforced)	Resistance Test	IS 398 (Part 3)(Cl No. 12.5)
61	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Conductors Aluminized Steel Reinforced)	Wrapping Test	IS 398 (Part 3) (Cl. No.12.4)
62	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Conductors Galvanized Steel Reinforced)(ACSR)	Breaking Load Test	IS 398 (Part 2) (Cl. No. 13.3)
63	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Conductors Galvanized Steel Reinforced)(ACSR)	Measurement for Diameter of Individual Al wires & Galvanised Steel wires	IS 398 (Part 2) (Cl. No. 13.2)
64	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Conductors Galvanized Steel Reinforced)(ACSR)	Measurement of Length of Conductor/Drum	IS 398 (Part 2) (Cl. No. 11)
65	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Conductors Galvanized Steel Reinforced)(ACSR)	Resistance Test	IS 398 (Part 2) (Cl. No. 13.6)
66	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Conductors Galvanized Steel Reinforced)(ACSR)	Wrapping Test	IS 398 (Part 2)(Cl. No. 13.5)
67	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Stranded Conductors)	Breaking Load Test	IS 398 (Part 1) (Cl. 12.3)
68	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Stranded Conductors)	Measurement of Diameter of Individual Strands	IS 398 (Part 1)(Cl No. 12.2)
69	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Stranded Conductors)	Measurement of Length of Conductor/Drum	IS 398 (Part 1)(Cl No. 10)
70	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Stranded Conductors)	Resistance Test	IS 398 (Part 1) (Cl. 12.5)
71	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Stranded Conductors)	Wrapping Test	IS 398 (Part 1)(Cl. 12.4)
72	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium Conductors for overhead transmission purposes (Aluminium Alloy Stranded Conductors) (AAAC)(Alunimium, Magnesium, Silicon Type	Elongation Test	IS 398 (Part 4) (Cl. No. 12.3)
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Applied Voltage Test	IS 2026 Part 3 (Cl 10))

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74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Induced Over Voltage Withstand Test	IS 1180 Part 1(Clause 21.2.f)
75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Induced Voltage Withstand Test	IS 2026 Part 3 (Clause 11)
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Insulating liquids- determination of the Breakdown Voltage at power frequency	IS 6792
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Measurement of Insulation resistance	IS 1180 Part 1 (Cl No. 21.2.e)
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Measurement of Insulation resistance	IS 2026 Part 1 (Cl.10.1.3)
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Measurement of No load Loss and current	IS 1180 Part 1 (21.2.d)
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Measurement of No load Loss and current	IS 2026 Part 1 (Clause 10.5)
81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Measurement of short- circuit Impedance and Load loss	IS 2026 Part 1 (Clause 10.4)
82	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Measurement of short- circuit Impedance and Load loss at 50 percent and 100 percent load	IS 1180 Part 1 (Cl.21.2.c)
83	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Measurement of Voltage Ratio and Check of phase displacement	IS 1180 Part 1 (Clause 21.2.b)
84	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Measurement of Voltage Ratio and Check of phase displacement	IS 2026 Part 1 (Clause 10.3)
85	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Measurement of Winding Resistance	IS 1180 Part 1(Cl 21.2.a)
86	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Separate Source Voltage Withstand Test	IS 1180 Part 1 (Clause 21.2.g)
87	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Temperature rise test	IS 1180 Part 1 (Cl 21.3.b)
88	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers UPTO 500KVA, 11KV	Temperature rise test	IS 2026 Part 2 (Clause 5.0)