National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NISHTHA TESTING LABORATORY, MADHYA PRADESH MADHYA KSHETRA VIDYUT VITARAN COMPANY LIMITED, NISHTHA PARISAR, GOVINDPURA, BHOPAL, MADHYA PRADESH, 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	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Breaking Load Test on Messenger Conductor	Cl. 6.5 & 10 of IS 14255
2	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Breaking Load Test on Messenger Conductor	IS 10810 (Part 2)
3	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Conductor Resistance Test	Cl. 10 of IS 14255
4	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Conductor Resistance Test	IS 8130 (Cl 7.3 & 7.3.1)
5	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Conductor Resistance Test	IS10810 (Part5)
6	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Conductor Resistance Test on Messenger Conductor	IS 14255 (Cl 10 & 6.5)
7	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Conductor Resistance Test on Messenger Conductor	IS10810 (Part5)
8	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Elongation at break test for Insulation	IS 10810 (Part 7)
9	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Elongation at break test for Insulation	IS 14255 (Cl 10, 10.2.g, 5.1)
10	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Elongation Test on Messenger Conductor	IS 14255 (Cl 10 & 11.3)
11	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	High Voltage Test	IS 10810 (Part 45)
12	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	High Voltage Test	IS 14255 (Cl 10,10.2.k, 11.2)
13	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Hot Set Test for (XLPE) Insulation	IS 10810 (Part 30)
14	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Hot Set Test for (XLPE) Insulation	IS 14255 (Cl 10 & 5.1)
15	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Insulation resistance (Volume Resistivity test)	IS 10810 (Part 43)
16	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Insulation resistance (Volume Resistivity test)	IS 14255 (Cl 10.2.j, 10 & 5.1)
17	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Tensile Strength at break test for Insulation	IS 10810 (Part 7)
18	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Tensile Strength at break test for Insulation	IS14255 (Cl 10, 10.2.g, 5.1)

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19	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Tensile Test (for Aluminium)	IS 10810 (Part 2)
20	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Tensile Test (for Aluminium)	IS 14255 (Cl 10)
21	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Tensile Test (for Aluminium)	IS 8130 (Cl 7.2.1)
22	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Test for thickness of Insulation	IS 10810 (Part 6)
23	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Test for thickness of Insulation	IS 14255 (Cl 10.2.f & 7.2)
24	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Wrapping Test (for Aluminium)	IS 10810 (Part 3)
25	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Wrapping Test (for Aluminium)	IS 8130 (Cl 7.2.2)
26	ELECTRICAL- CABLES & WIRES	Arial Bunched Cables (Working Voltage upto & including 1100 volts)	Wrapping Test (for Aluminium)	IS14255 (Cl 10)
27	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Elongation at break test for Insulation and Sheath	IS 10810 (Part 7)
28	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC Sheathed cables and Control Cables (Working Voltage upto & including 1100V)	Insulation resistance (Volume Resistivity test)	IS 10810 (Part 43)
29	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Annealing Test (for Copper)	IS 10810 (Part 1)
30	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Annealing Test (for Copper)	IS 8130 (Cl 7.1.2.1)
31	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Conductor Resistance Test	IS 10810 (Part 5)
32	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Conductor Resistance Test	IS 7098 (Part 1) (Cl 15.2.d)
33	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Conductor Resistance Test	IS 8130 (Cl 7.3 & 7.3.1)
34	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Elongation at break test for Insulation and Sheath	IS 5831 (Cl 4.1)

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35	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Elongation at break test for Insulation and Sheath	IS 7098 Part 1 (Cl 15.2.g)
36	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	High Voltage Test	IS 10810 (Part 45)
37	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	High Voltage Test	IS 7098 Part 1 (Cl 15.2.h)
38	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Hot Set test for Insulation	IS 10810 (Part 30)
39	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Hot Set Test for Insulation	IS 14255 (Cl 5.1)
40	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Hot Set test for Insulation	IS 7098 Part 1 (Cl 15.1.d & 15.2.f)
41	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Insulation Resistance (Volume Resistivity Test)	IS 5831 (Cl 4.1)
42	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Insulation resistance (Volume Resistivity test)	IS 7098 Part 1 (Cl 15.2.j & 4.1)
43	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Tensile Strength at break test for Insulation and Sheath	IS 10810 (Part 7)
44	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Tensile Strength at break test for Insulation and Sheath	IS 5831 (Cl 4.1)
45	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Tensile Strength at break test for Insulation and Sheath	IS 7098 Part 1 (Cl 15.2.g)
46	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Tensile Test (for Aluminium)	IS 10810 (Part 2)
47	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Tensile Test (for Aluminium)	IS 7098 Part1 (Cl 15.2.b)
48	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Tensile Test (for Aluminium)	IS 8130 (Cl 7.2.1)

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49	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Test for Thickness of Insulation and Sheath	IS 10810 (Part 6)
50	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Test for thickness of Insulation and Sheath	IS 7098 Part 1 (Cl 15.2.e, 9.2, 12.3, 14.3.1, 14.3.2)
51	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Wrapping Test (for Aluminium)	IS 10810 (Part 3)
52	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Wrapping Test (for Aluminium)	IS 7098 Part1 (Cl 15.2.c)
53	ELECTRICAL- CABLES & WIRES	Cross Linked Polyethylene insulated PVC sheathed cables and Control Cables (working voltage upto and including 1100V)	Wrapping Test (for Aluminium)	IS 8130 (Cl 7.2.2)
54	ELECTRICAL- CABLES & WIRES	Cross linked polyethylene insulated PVC Sheathed Cables and Control Cables (working voltage upto and including 1100Volts)	Annealing Test (for Copper)	IS 7098 Part 1 (Cl 15.2.a)
55	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Stranded Conductors)	Breaking Load Test	IS 398 Part 1 (Cl 12.3)
56	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Stranded Conductors)	Measurement of Conductor/Drum Length	IS 398 Part 1 (Cl No 10.1)
57	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Stranded Conductors)	Wrapping Test	IS 398 Part 1 (Cl 12.4)
58	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Alloy Stranded Conductors) (AAAC)	Breaking Load Test	IS 398 Part 4 (Cl 12.2)
59	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Alloy Stranded Conductors) (AAAC)	Conductor Resistance Test	IS 398 Part 4 (Cl 12.4)
60	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Alloy Stranded Conductors) (AAAC)	Elongation Test	IS 398 Part 4 (Cl 12.3)
61	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Alloy Stranded Conductors) (AAAC)	Measurement of Diameter of Individual Strands	IS 398 Part 4 (Cl 5.1, 7.1.1, 7.1.2)
62	ELECTRICAL- CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Alloy Stranded Conductors) (AAAC)	Measurement of Length of Conductor/Drum	IS 398 Part 4 (Cl 10.1)

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63	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Conductors Aluminized Steel Reinforced)	Breaking Load Test	IS 398 Part 3 (Cl 12.2 & 12.3.2)
64	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Conductors Aluminized Steel Reinforced)	Conductor Resistance Test	IS 398 Part 3 (Cl 12.5)
65	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Conductors Aluminized Steel Reinforced)	Elongation Test	IS 398 Part 3 (Cl 12.2 & 12.3.2)
66	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)
67	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Conductors Aluminized Steel Reinforced)	Wrapping Test	IS 398 Part 3 (Cl 12.4)
68	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Conductors Galvanized Steel Reinforced)	Conductor Resistance Test	IS 398 Part 2 (Cl 13.6)
69	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Conductors Galvanized Steel Reinforced)	Measurement of Length of Conductor/Drum	IS 398 Part 2 (Cl 11.1)
70	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose (Aluminium Stranded Conductors)	Conductor Resistance Test	IS 398 Part 1 (Cl 12.5)
71	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)
72	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose(Aluminium Conductors Galvanized Steel Reinforced)	Breaking Load Test	IS 398 Part 2 (Cl 13.3 & 13.4.2)
73	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose(Aluminium Conductors Galvanized Steel Reinforced)	Elongation Test	IS 398 Part 2 (Cl 13.3 & 13.4.2)
74	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose(Aluminium Conductors Galvanized Steel Reinforced)	Measurement for Diameter of Individual Strands	IS 398 Part 2 (Cl 13.2)
75	ELECTRICAL-CONDUCTORS & CONDUCTING MATERIALS	Aluminium conductors for overhead transmission purpose(Aluminium Conductors Galvanized Steel Reinforced)	Wrapping Test	IS 398 Part 2 (Cl 13.5)
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA 11 KV	Breakdown Voltage of Transformer Oil (BDV)	IS 1866 (cl 5.3)

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77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	High Voltage (Dielectric Test) of HV Winding,	IS 1180 Part 1 (Clause 21.2.g)
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	High Voltage (Dielectric Test) of HV Winding,	IS 2026 Part 3 (Cl 10)
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Breakdown Voltage of Transformer Oil (BDV)	IS 6792 (Cl 9.3)
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Checking of Vector Relationship	IS 1180 Part 1 (Clause 21.2.b)
81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Checking of Vector Relationship	IS 2026 Part 1 (Cl 10.3)
82	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	High Voltage (Dielectric Test) of LV Winding,	IS 1180 Part 1 (Clause 21.2.g)
83	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	High Voltage (Dielectric Test) of LV Winding,	IS 2026 Part 3 (Cl 10)
84	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Induced Over Voltage Withstand Test	IS 1180 Part 1 (Clause 21.2.f)
85	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Induced Over Voltage Withstand Test	IS 2026 Part 3 (Clause 11.2)
86	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Measurement of Impedance Voltage and Load loss	IS 2026 Part 1 (Clause 10.4)
87	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Measurement of Impedance Voltage and Load loss at 50% & 100% load	IS 1180 Part 1 (Cl.21.2.c.)
88	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Measurement of Insulation resistance (HV & LV)	IS 1180 Part 1 (Cl 21.2.e)
89	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Measurement of Insulation Resistance (HV & LV)	IS 2026 Part I (Cl 10.1.3 j)
90	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Measurement of No load Loss and No load current	IS 1180 Part 1 (21.2.d)
91	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Measurement of No load Loss and No load current	IS 2026 Part 1 (Clause 10.5)
92	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Measurement of Turn Ratio	IS 1180 Part 1 (Cl 21.2.b)
93	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Measurement of Turn Ratio	IS 2026 Part 1 (Clause 10.3)
94	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Measurement of Winding Resistance (HV & LV)	IS 1180 Part-I (Cl 21.2.a)

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95	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Measurement of Winding Resistance (HV & LV)	IS 2026 Part-I (Cl 10.2)
96	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Temperature rise test (Heat Run)	IS 1180 Part 1 (Cl 21.3.b)
97	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer From 25 KVA Upto and Including 500 KVA, 11 KV	Temperature rise test (Heat Run)	IS 2026 Part 2 (Cl 5.0)