National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ATLANTA ELECTRICALS PVT. LTD. (TRANSFORMER TEST LABORATORY), 1503-04 & 1701-2, G.I.D.C. ESTATE, PHASE-IV, VITHTHAL UDYOG NAGAR, ANAND, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 12/06/2022 to 11/06/2024 **Last Amended on** 11/02/2023

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- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA, 0.433 kV to 200 MVA, 245 kV	Insulation Resistance	CBIP Manual 317
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	No Load Loss and Magnetizing Current Measurement	IEC 60076 (Part 01)
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Acoustic Noise Level Measurement	IEC 60076 (Part 10)
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Acoustic Noise Level Measurement	IS 2026 (Part 01)
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Auxiliary Loss Measurement	IEC 60076 (Part 01)
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Auxiliary Loss Measurement	IS 2026 (Part 01)
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Induced Over Voltage Withstand Test	IS 1180 (Part 01)
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Induced Over Voltage Withstand Test	IS 2026 (Part 03)
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Induced Over Voltage Withstand Test	IEC 60076 (Part 03)
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Insulation Resistance	IEC 60076 (Part 01)
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Insulation Resistance	IS 1180 (Part 01)
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Insulation Resistance	IS 2026 (Part 01)
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Lightning Impulse Test	IEC 60076 (Part 03)
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Lightning Impulse Test	IS 1180 (Part 01)
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Lightning Impulse Test	IS 2026 (Part 03)
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Load Loss and Impedance Measurement	IEC 60076 (Part 01)
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Load Loss and Impedance Measurement	IS 1180 (Part 01)
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Load Loss and Impedance Measurement	IS 1180 (Part 01)

SCOPE OF ACCREDITATION

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Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5798	**Page No**	2 of 11
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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
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Load Loss and Impedance Measurement	IS 2026 (Part 01)
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Load Loss and Impedance Measurement	IEC 60076 (Part 01)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	No Load Loss and Magnetizing Current Measurement	IS 1180 (Part 01)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	No Load Loss and Magnetizing Current Measurement	IS 2026 (Part 01)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	No Load Loss and Magnetizing Current Measurement	IS 2026 (Part 01)
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	No Load Loss and Magnetizing Current Measurement	IEC 60076 (Part 01)
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	No Load Loss and Magnetizing Current Measurement	IS 1180 (Part 01)
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245 kV	Acoustic Noise Level	CBIP Manual 317
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	Induced Over Voltage Withstand Test	IS 1180 (Part 01)
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	Insulation Resistance	IS 1180 (Part 01)
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	Insulation Resistance	IS 1180 (Part 01)
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	Lightning Impulse Test	IS 1180 (Part 01)
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	Load Loss and Impedance Measurement	IS 1180 (Part 01)
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	Load Loss and Impedance Measurement	IS 1180 (Part 01)
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	Load Loss and Impedance Measurement	IS 1180 (Part 01)
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	Load Loss and Impedance Measurement	IS 1180 (Part 01)
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	No Load Loss and Magnetizing Current Measurement	IS 1180 (Part 01)
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	No Load Loss and Magnetizing Current Measurement	IS 1180 (Part 01)
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	No Load Loss and Magnetizing Current Measurement	IS 1180 (Part -1)

SCOPE OF ACCREDITATION

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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
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	Pressure Test	IS 1180 (Part 01)
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	Ratio and Polarity Check	IS 1180 (Part 01)
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	Separate Source Voltage Withstand Test	IS 1180 (Part 01)
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	Temperature Rise Test	IS 1180 (Part 01)
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	Temperature Rise Test	IS 1180 (Part 01)
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer from 25 kVA, 0.433 kV to 2500 kVA, 33 kV	Winding Resistance Test	IS 1180 (Part 01)
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA, 0.433 kV to 200 MVA, 245 kV	Capacitance and Tan Delta	CBIP Manual 317
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA, 0.433 kV to 200 MVA, 245 kV	Insulation Resistance	CBIP Manual 317
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Acoustic Noise Level Measurement	CBIP 317
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Acoustic Noise Level Measurement	IEC 60076 (Part 10)
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Acoustic Noise Level Measurement	IS 2026 (Part 01)
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Auxiliary Loss Measurement	IEC 60076 (Part 01)
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Auxiliary Loss Measurement	IS 2026 (Part 01)
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Induced Over Voltage Withstand Test	IEC 60076 (Part 03)
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Induced Over Voltage Withstand Test	IS 2026 (Part 03)
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Insulation Resistance	CBIP 317
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Insulation Resistance	CBIP 317
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Insulation Resistance	IEC 60076 (Part 01)
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Insulation Resistance	IEC 60076 (Part 01)

SCOPE OF ACCREDITATION

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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
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Insulation Resistance	IS 2026 (Part 01)
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Insulation Resistance	IS 2026 (Part 01)
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Lightning Impulse Test	IEC 60076 (Part 03)
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Lightning Impulse Test	IS 2026 (Part 03)
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Load Loss and Impedance Measurement	IEC 60076 (Part 01)
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Load Loss and Impedance Measurement	IEC 60076 (Part 01)
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Load Loss and Impedance Measurement	IEC 60076 (Part 01)
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Load Loss and Impedance Measurement	IEC 60076 (Part 01)
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Load Loss and Impedance Measurement	IS 2026 (Part 01)
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Load Loss and Impedance Measurement	IS 2026 (Part 01)
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Load Loss and Impedance Measurement	IS 2026 (Part 01)
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Load Loss and Impedance Measurement	IS 2026 (Part-1)
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Magnetic Balance Test	CBIP 317
70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Magnetic Balance Test	Internal SOP No. WI/Test/09
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Measurement of Capacitance and Tan Delta	CBIP 137
72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Measurement of Capacitance and Tan Delta	CBIP 317
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Measurement of Capacitance and Tan Delta	IEC 60076
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Measurement of Capacitance and Tan Delta	IEC 60076 (Part 01)
75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Measurement of Capacitance and Tan Delta	IS 2026 (Part 01)

SCOPE OF ACCREDITATION

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76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Measurement of Capacitance and Tan Delta	IS 2026 (Part 01)
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Measurement of Harmonics in No Load Current	CBIP 317
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Measurement of Harmonics in No Load Current	IS 2026 (Part 01)
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	No Load Loss and Magnetizing Current Measurement	IEC 60076 (Part 01)
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	No Load Loss and Magnetizing Current Measurement	IEC 60076 (Part-1)
81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	No Load Loss and Magnetizing Current Measurement	IS 2026 (Part 01)
82	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	No Load Loss and Magnetizing Current Measurement	IS 2026 (Part 01)
83	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	No Load Loss and Magnetizing Current Measurement	IS 2026 (Part -1)
84	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Oil BDV Test	IS 335
85	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Oil BDV Test	IS 6792
86	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Pressure Test	CBIP
87	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Pressure Test	IEC 60076 (Part 01)
88	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Ratio and Polarity Check	IEC 60076 (Part 01)
89	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Ratio and Polarity Check	IS 2026 (Part 01)
90	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Separate Source Voltage Withstand Test	IEC 60076 (Part 03)
91	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Separate Source Voltage Withstand Test	IS 2026 (Part 03)
92	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Sweep Frequency Response Analysis	IEC 60076 (Part 01)
93	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Sweep Frequency Response Analysis	IEC 60076 (Part 18)
94	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Temperature Rise Test	IEC 60076 (Part 02)

SCOPE OF ACCREDITATION

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95	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Temperature Rise Test	IEC 60076 (Part 02)
96	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Temperature Rise Test	IS 2026 (Part 02)
97	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Temperature Rise Test	IS 2026 (Part 02)
98	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Test on On Load Tap Changer	IEC 60076 (Part 01)
99	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Test on On Load Tap Changer	IS 2026 (Part 01)
100	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Vacuum Test	CBIP 317
101	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Vacuum Test	IEC 60076 (Part 01)
102	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Vector Group Test	CBIP 317
103	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Vector Group Test	IEC 60076 (Part 01)
104	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Vector Group Test	IS 2026 (Part 01)
105	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Winding Resistance Test	IEC-60076 (Part 1)
106	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Winding Resistance Test	IS 2026 (Part 1)
107	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Zero Phase sequence Impedance Measurement	CBIP
108	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Zero Phase sequence Impedance Measurement	CBIP
109	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Zero Phase sequence Impedance Measurement	IEC 60076 (Part 01)
110	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Zero Phase sequence Impedance Measurement	IEC 60076 (Part-1)
111	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Zero Phase sequence Impedance Measurement	IEC 60076 (Part-1)
112	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 100 MVA, 132 kV	Zero Phase sequence Impedance Measurement	IS 2026 (Part -1)
113	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Ratio and Polarity Check	IEC 60076 (Part 01)

SCOPE OF ACCREDITATION

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114	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Capacitance and Tan Delta	CBIP Manual 317
115	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Harmonics in No Load Current	CBIP Manual 317
116	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Insulation Resistance	IEC 60076 (Part 01)
117	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Insulation Resistance	IS 1180 (Part 01)
118	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Insulation Resistance	IS 2026 (Part 01)
119	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Load Loss and Impedance Measurement	IEC 60076 (Part 01)
120	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Load Loss and Impedance Measurement	IEC 60076 (Part 01)
121	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Load Loss and Impedance Measurement	IS 1180 (Part 01)
122	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Load Loss and Impedance Measurement	IS 1180 (Part 01)
123	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Load Loss and Impedance Measurement	IS 2026 (Part 01)
124	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Load Loss and Impedance Measurement	IS 2026 (Part-1)
125	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Load Loss and Impedance Measurement	IS 2026 (Part 01)
126	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Magnetic Balance Test	Internal SOP No. WI/Test/09
127	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Measurement of Capacitance and Tan Delta	IEC 60076
128	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Measurement of Capacitance and Tan Delta	IEC 60076 (Part 01))
129	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Measurement of Capacitance and Tan Delta	IS 2026 (Part 01)
130	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Measurement of Capacitance and Tan Delta	IS 2026 (Part 01)
131	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Measurement of Harmonics in No Load Current	IS 2026 (Part 01)
132	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	No Load Loss and Magnetizing Current Measurement	IEC 60076 (Part-1)

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133	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	No Load Loss and Magnetizing Current Measurement	IS 1180 (Part -1)
134	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	No Load Loss and Magnetizing Current Measurement	IS 2026 (Part -1)
135	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Oil BDV Test	IS 335
136	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Oil BDV Test	IS 6792
137	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Partial Discharge Measurement	IEC 60076 (Part 03)
138	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Partial Discharge Measurement	IS 2026 (Part 03)
139	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Pressure	CBIP Manual 317
140	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Pressure Test	IS 1180 (Part 01)
141	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Pressure Test	IEC 60076 (Part 01)
142	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Ratio and Polarity Check	IS 1180 (Part 01)
143	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Ratio and Polarity Check	IS 2026 (Part 01)
144	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Separate Source Voltage Withstand Test	IEC 60076 (Part 03)
145	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Separate Source Voltage Withstand Test	IS 1180 (Part 01)
146	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Separate Source Voltage Withstand Test	IS 2026 (Part 03)
147	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Sweep Frequency Response Analysis	IEC 60076 (Part 01)
148	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Sweep Frequency Response Analysis	IEC 60076 (Part 18)
149	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Switching Impulse Test	IEC 60076 (Part 03)
150	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Switching Impulse Test	IS 2026 (Part 03)
151	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Temperature Rise Test	IEC 60076 (Part 02)

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152	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Temperature Rise Test	IEC 60076 (Part 02)
153	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Temperature Rise Test	IS 1180 (Part 01)
154	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Temperature Rise Test	IS 1180 (Part 01)
155	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Temperature Rise Test	IS 2026 (Part 02)
156	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Temperature Rise Test	IS 2026 (Part 02)
157	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Test on On Load Tap Changer	IEC 60076 (Part 01)
158	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Test on On Load Tap Changer	IS 2026 (Part 01)
159	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Transfer Surge	IEC 60076 (Part 03)
160	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Transfer Surge	IS 2026 (Part 03)
161	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Vacuum	CBIP Manual 317
162	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Vacuum Test	IEC 60076 (Part 01)
163	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Vector Group	CBIP Manual 317
164	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Vector Group Test	IEC 60076 (Part 01)
165	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Vector Group Test	IS 2026 (Part 01)
166	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Winding Resistance Test	IEC-60076 (Part 1)
167	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Winding Resistance Test	IS 1180 (Part 01)
168	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Winding Resistance Test	IS 2026 (Part 1)
169	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Zero Phase sequence Impedance Measuremen	IEC 60076 (Part-1)
170	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Zero Phase sequence Impedance Measurement	IEC 60076 (Part 01)

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171	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Zero Phase sequence Impedance Measurement	IS 2026 (Part 01)
172	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Zero Phase sequence Impedance Measurement	IS 2026 (Part -1)
173	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Zero Phase sequence Impedance Measurement (Current)	CBIP Manual 317
174	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power , Auto, Distribution and Special Duty Transformer - 25 kVA,0.433 kV to 200 MVA, 245kV	Zero Phase sequence Impedance Measurement (Voltage)	CBIP Manual 317
175	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power, Auto, Distribution and Special Duty Transformer - 25 kVA, 0.433 kV to 200 MVA, 245 kV	Magnetic Balance	CBIP Manual 317
176	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Appearance	IS 1866, IEC 60296, IEC 60422, IEC 62770, IS 16659, IS 16081, IS 61099, IS 335
177	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Breakdown Voltage	IS 1866, IEC 60156, IEC 60296, IEC 60422, IS 6792, IEC 62770, IEC 60156, IEC 16659, IEC 61099, IS 16081, IEC 61203, IS 16099, IS 335
178	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Density	IS 1866, IEC 60296, IEC 60422, IS 1448 (Part-16), ISO 3615, IEC 62770, IS 16659, IS 16081, IEC 61099, IS 335
179	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dielectric Dissipation Factor	IS 1866, IEC 60247, IEC 60296, IEC 60422, IS 16086, IS 6262, IEC 62770, IS 16659, IEC 61203, IS 16099, IS 335
180	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis Hydrogen (H2)	IS 9434, IS 10593, ASTM D3612, IEC 60567, IEC 60599, IS 9434, IS 1866
181	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis, Acetylene (C2H2)	IS 9434, IS 10593, ASTM D3612, IEC 60567, IEC 60599, IS 9434, IS 1866
182	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis, Carbon Dioxide (CO2)	IS 9434, IS 10593, ASTM D3612, IEC 60567, IEC 60599, IS 9434, IS 1866
183	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis, Carbon Monoxide (CO)	IS 9434, IS 10593, ASTM D3612, IEC 60567, IEC 60599, IS 9434, IS 1866

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184	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis, Ethane (C2H6)	IS 9434, IS 10593, ASTM D3612, IEC 60567, IEC 60599, IS 9434, IS 1866
185	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis, Ethylene (C2H4)	IS 9434, IS 10593, ASTM D3612, IEC 60567, IEC 60599, IS 9434, IS 1866
186	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis, Methane (CH4)	IS 9434, IS 10593, ASTM D3612, IEC 60567, IEC 60599, IS 9434, IS 1866
187	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis, Nitrogen (N2)	IS 9434, IS 10593, ASTM D3612, IEC 60567, IEC 60599, IS 9434, IS 1866
188	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Dissolved Gas Analysis, Oxygen (O2)	IS 9434, IS 10593, ASTM D3612, IEC 60567, IEC 60599, IS 9434, IS 1866
189	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Fire Point	ASTM D92-2011, ISO:2592
190	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Flash point	IS 1866, IS 1448 (Part 21), IEC 60296, IEC 60422, ISO 2719, IEC 62770, IS 16659, IEC 61203, IS 16099, IS 335
191	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Interfacial Tension	IS 1866, IS 6104, ASTM D971, IEC 60296, IEC 60422, IS 335
192	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Kinematic Viscosity	IS 1866, IEC 60422, IS 1448 (Part-25), ISO 3104, IEC 62770, IS 16659, ISO 3105, IEC 61099, IS 16081, IS 16099, IS 335
193	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Neutralization Value	IS 1866, IEC 60296, IEC 62021-2, IS 1448 (Part 2), IEC 61203, IS 16099, IS 335
194	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Sediments & Sludge	IS 1866, IEC 60422
195	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Specific Resistance	IS 335, IEC 60247, IEC 60422, IS 16086, IS 6103, IS 1866
196	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer oil	Water Content	IS 1866, IEC 60422, IEC 60296, IEC 60814, IS 13567, IEC 61099, IS 16081, IEC 61203, IS 2362, IS 335