National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TRANSFORMER TESTING LABORATORY - KIRLOSKAR ELECTRIC COMPANY LIMITED, UNIT-5, TRANSFORMER DIVISION, MYSORE, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 25/05/2022 to 24/05/2024 **Last Amended on** 05/07/2022

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	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Applied Voltage Test	IEC 60076-3
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Applied Voltage Test	IS 2026 (Part 3)
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Determination of Sound Level	IEC 60076-10
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Determination of Sound Level	IS 2026 (Part 10)
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Induced Over Voltage Withstand Test	IS 1180 (Part 1)
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Induced Voltage Withstand Test	IEC 60076-3
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Induced Voltage Withstand Test	IS 2026 (Part 3)
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Lightning Impulse Test & Lightning Impulse Chopped on the Tail	IEC 60076-03
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Lightning Impulse Test & Lightning Impulse Chopped on the Tail	IS 1180 (Part 1)
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Lightning Impulse Test & Lightning Impulse Chopped on the Tail	IS 2026 (Part 03)
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Magnetic Balance Test on 3 Phase Transformer	CBIP 317
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement load loss at 50 % and 100 % Load	IS 1180 (Part 1)
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Acoustic Noise Level	NEMA TR 1
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Breakdown Voltage for Oil	IS 335
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Breakdown Voltage for Oil	IS 6792
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of capacitances and Tan delta	IEC 60076-1
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of capacitances and Tan delta	IS 2026 (Part 1)

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18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of d.c. Insulation Resistance	IEC 60076-1
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Impedance Voltage	IEC 60076-1
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Impedance Voltage	IS 2026 (Part 1)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Insulation Resistance	IS 1180(Part 1)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Insulation Resistance	IS 2026 (Part 1)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Insulation Resistance & Polarization Index	CBIP 317
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Load Loss	IEC 60076-1
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Load Loss	IS 2026 (Part 1)
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Magnetizing Current at Low Voltage	CBIP 317
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of No Load Current	IEC 60076-1
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of No Load Current	IS 1180 (Part 1)
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of No Load Current	IS 2026 (Part 1)
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of No Load Current at 112.5%	IS 1180 (Part 1)
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of No Load Current Harmonics	IS 2026 (Part 1)
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of No Load Loss	IEC 60076-1
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of No Load Loss	IS 1180 (Part 1)
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of No Load Loss	IS 2026 (Part 1)
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Short Circuit Impedance	IS 1180 (Part 1)

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36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Voltage Ratio and check of phase displacement	IEC 60076-1
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Voltage Ratio and check of phase displacement	IS 1180 (Part 1)
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Voltage Ratio and check of Phase displacement	IS 2026 (Part 1)
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Winding Resistance	IEC 60076-1
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Winding Resistance	IS 1180 (Part 1)
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Winding Resistance	IS 2026(Part 1)
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Zero Phase Sequence Impedance	IEC 60076-1
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Measurement of Zero Phase Sequence Impedance	IS 2026 (Part 1)
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Moisture Content in Transformer Oil	IS 13567
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Oil Leakage Test	IS 1180 (Part 1)
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Paint Adhesion Test as per ASTM D3359 by tape test	IS 1180 (Part 1)
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Partial Discharge Measurement	IEC 60076-03
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Partial Discharge Measurement	IS 2026 (Part 03)
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Pressure Test	CBIP 317
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Pressure Test	IEC 60076-1
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Pressure Test	IS 1180 (Part 1)
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Separate Source Voltage Withstand Test	IS 1180 (Part 1)
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Temperature Rise Test	IEC 60076-02

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54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Temperature Rise Test	IS 1180 (Part 1)
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Temperature Rise Test	IS 2026 (Part 2)
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Tests on OLTC	IEC 60076-1
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Tests on OLTC	IS 2026 (Part 1)
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Vector Group Test	IEC 60076-1
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Vector Group Test	IS 1180 (Part 1)
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers above 50 KVA up to 2500 KVA,11 kV class	Vector Group Test	IS 2026 (Part 1)
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Applied Voltage Test	IEC 60076-3
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Applied Voltage Test	IS 2026 (Part 3)
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Induced Voltage Withstand Test	IEC 60076-3
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Induced Voltage Withstand Test	IS 2026 (Part 3)
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Lightning Impulse Test & Lightning Impulse Chopped on the Tail	IEC 60076-03
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Lightning Impulse Test & Lightning Impulse Chopped on the Tail	IS 2026 (Part 03)
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Magnetic Balance Test	CBIP 317
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Magnetization Current at Low Voltage test	CBIP 317
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Acoustic Noise Level	IEC 60076-10
70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Acoustic Noise Level	IS 2026 (Part 10)
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Acoustic Noise Level	NEMA TR 1

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72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Breakdown Voltage for Oil	IS 335
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Breakdown Voltage for Oil	IS 6792
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Capacitence and Tandelta	IEC 60076-1
75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Capacitence and Tandelta	IS 2026 (Part 1)
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Impedance Voltage	IEC 60076-1
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Impedance Voltage	IS 2026 (Part 1)
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Insulation Resistance	IEC 60076-1
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Insulation Resistance	IS 2026 (Part 1)
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Insulation Resistance & Polarization Index	CBIP 317
81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Load Loss	IEC 60076-1
82	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Load Loss	IS 2026 (Part 1)
83	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of No Load Current	IEC 60076-1
84	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of No Load Current	IS 2026 (Part 1)
85	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of No Load Current Harmonics	IS 2026 (Part 1)
86	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of No Load Loss	IEC 60076-1
87	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of No Load Loss	IS 2026 (Part 1)
88	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Power Taken by the fan & Oil Pump Motors	IEC 60076-1
89	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Power Taken by the fan & Oil Pump Motors	IS 2026 (Part 1)

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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
90	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Voltage Ratio and check of Phase displacement	IEC 60076-1
91	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Voltage Ratio and check of Phase displacement	IS 2026 (Part 1)
92	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Winding Resistance	IEC 60076-1
93	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Winding Resistance	IS 2026(Part 1)
94	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Zero Phase Sequence Impedance	IEC 60076-1
95	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Measurement of Zero Phase Sequence Impedance	IS 2026 (Part 1)
96	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Moisture Content in Transformer Oil	IS 13567
97	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Partial Discharge Measurement	IEC 60076-03
98	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Partial Discharge Measurement	IS 2026 (Part 03)
99	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Pressure Test	CBIP 317
100	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Pressure Test	IEC 60076-1
101	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Temperature Rise Test	IEC 60076-02
102	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Temperature Rise Test	IS 2026 (Part 02)
103	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Tests on OLTC	IEC 60076-1
104	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Tests on OLTC	IS 2026 (Part 1)
105	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Vector Group Test	IEC 60076-1
106	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers above 2500 KVA up to 32000 KVA,33 kV class	Vector Group Test	IS 2026 (Part 1)