National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TECHNICAL ASSOCIATES LIMITED (DEPT. OF TRANSFORMER TESTING), B-7, ELDECO SIDCUL INDUSTRIAL PARK, SITARGANJ, UDHAM SINGH NAGAR, UTTARAKHAND, INDIA

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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- INDUCTORS & TRANSFORMERS	Distribution Transformer [33 kV & up to 2500 kVA]	Induced over- voltage withstand test	IS 1180 (part 1)
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer [33 kV & up to 2500 kVA]	Lightning impulse test [front Time]	IS 1180 (part 1)
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer [33 kV & up to 2500 kVA]	Lightning impulse test [Tail Time]	IS 1180 (part 1)
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer [33 kV & up to 2500 kVA]	Lightning impulse test [Voltage]	IS 1180 (part 1)
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer [33 kV & up to 2500 kVA]	Measurement of Insulation resistance	IS 1180 (part 1)
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer [33 kV & up to 2500 kVA]	Measurement of Load loss	IS 1180 (part 1)
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer [33 kV & up to 2500 kVA]	Measurement of No Load current	IS 1180 (part 1)
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer [33 kV & up to 2500 kVA]	Measurement of No Load loss	IS 1180 (part 1)
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer [33 kV & up to 2500 kVA]	Measurement of short circuit impedance	IS 1180 (part 1)
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer [33 kV & up to 2500 kVA]	Measurement of voltage ratio and check of phase displacement	IS 1180 (part 1)
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer [33 kV & up to 2500 kVA]	Measurement of winding resistance	IS 1180 (part 1)
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer [33 kV & up to 2500 kVA]	Separate-source Voltage withstand test	IS 1180 (part 1)
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer [33 kV & up to 2500 kVA]	Temperature rise test [Oil]	IS 2026 (Part 1)
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer [33 kV & up to 2500 kVA]	Temperature rise test [Winding]	IS 1180 (part 1)
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Determination of sound level	IEC 60076-10-1:2016+AMD1
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Check of the ratio and polarity of built in current transformer	IEC 60076-3:2013+AMD1
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Chopped wave lightning impulse test [chopping time]	IEC 60076-3:2013+AMD1
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Chopped wave lightning impulse test [chopping time]	IS 2026 (Part 3)

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19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Chopped wave lightning impulse test [voltage]	IEC 60076-3:2013+AMD1
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Chopped wave lightning impulse test [voltage]	IS 2026 (Part 3)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Determination of capacitance winding to-earth, and between winding & Bushing	IEC 60076 (part 1)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Determination of capacitance winding-to-earth, and between winding & Bushing	IS 2026 (Part 1)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Determination of sound level	IS 13964
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Determination of sound level	IS 2026 (Part 10)
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Determination of sound level	NEMA TR 1
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Harmonics of no load current	IEC 60076 (part 1)
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Harmonics of no load current	IS 2026 (Part 1)
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Induced AC voltage withstand test	IEC 60076 (part 3)
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Induced AC voltage withstand test	IS 2026 (Part 3)
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Induced voltage test with PD measurement (IVPD) [pico coulomb]	IEC 60076-3:2013+AMD1
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Induced voltage test with PD measurement (IVPD) [pico coulomb]	IS 2026 (Part 3)
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Induced voltage test with PD measurement (IVPD) [Voltage]	IEC 60076-3:2013+AMD1
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Induced voltage test with PD measurement (IVPD) [Voltage]	IS 2026 (Part 3)
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Lightning Impulse test [Front time]	IEC 60076-3:2013+AMD1
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Lightning Impulse test [Front time]	IS 2026 (Part 3)

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36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Lightning Impulse test [Tail time]	IEC 60076-3:2013+AMD1
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Lightning Impulse test [Tail time]	IS 2026 (Part 3)
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Lightning Impulse test [Voltage]	IEC 60076-3:2013+AMD1
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Lightning Impulse test [Voltage]	IS 2026 (Part 3)
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Line terminal AC withstand voltage test (LTAC)	IEC 60076-3:2013+AMD1
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Line terminal AC withstand voltage test (LTAC)	IS 2026 (Part 3)
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Magnetic Balance Test	CBIP 317
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Magnetic Circuit [Isolation] Test [AC]	CBIP 317
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Magnetic Circuit [Isolation] Test [Insulation Resistance]	CBIP 317
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Magnetizing Current at low voltage	CBIP 317
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of load loss	IS 2026 (Part 1)
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of d.c. insulation resistance each winding to earth and between winding	IEC 60076 (part 1)
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of d.c. insulation resistance each winding to earth and between winding	IS 2026 (Part 1)
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of dissipation factor (tan d) of the insulation system capacitances.	IS 2026 (Part 1)
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of dissipation factor (tan d) of the insulation system capacitance	IEC 60076 (part 1)
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of frequency response (Frequency Response Analysis or FRA)	IEC 60076 (Part 18)
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of load loss	IEC 60076 (part 1)

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53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of no-load current	IEC 60076 (part 1)
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of no-load current	IS 2026 (Part 1)
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of no-load loss	IEC 60076 (part 1)
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of no-load loss	IS 2026 (Part 1)
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of short circuit impedance at low voltage	CBIP 317
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of short-circuit impedance	IEC 60076 (part 1)
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of short-circuit impedance	IS 2026 (Part 1)
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of the power taken by the fan and liquid pump motors	IS 2026 (Part 1)
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of the power taken by the fan and liquid pump motors.	IEC 60076 (part 1)
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of voltage ratio and check of phase displacement	IEC 60076 (part 1)
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of voltage ratio and check of phase displacement	IS 2026 (Part 1)
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of winding resistance	IEC 60076 (part 1)
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of winding resistance	IS 2026 (Part 1)
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of zero-sequence impedance(s) on three-phase transformers	IEC 60076 (part 1)
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Measurement of zero-sequence impedance(s) on three-phase transformers	IS 2026 (Part 1)
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Separate source AC withstand voltage test/Applied voltage test [AV]	IEC 60076 (part 3)

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69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Separate source AC withstand voltage test/Applied voltage test [AV]	IS 2026 (Part 3)
70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Switching impulse test [Front time]	IEC 60076-3:2013+AMD1
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Switching impulse test [Front time]	IS 2026 (Part 3)
72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Switching impulse test [Tail time]	IEC 60076-3:2013+AMD1
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Switching impulse test [Tail time]	IS 2026 (Part 3)
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Switching impulse test [Voltage]	IEC 60076-3:2013+AMD1
75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Switching impulse test [Voltage]	IS 2026 (Part 3)
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Temperature-rise Test [Oil]	IEC 60076 (part 2)
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Temperature-rise Test [Oil]	IS 2026 (Part 2)
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Temperature-rise Test [Winding]	IEC 60076 (part 2)
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Temperature-rise Test [Winding]	IS 2026 (Part 2)
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Tests on on-load tap-changers	IEC 60076 (part 1)
81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer [400 kV & up to 500 MVA]	Tests on on-load tap-changers	IS 2026 (Part 1)
82	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Density	IS 1448 (Part-16)
83	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Density	ISO 3675
84	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dielectric dissipation factor	IEC 60247
85	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dielectric dissipation factor	IS 16086

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86	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [CH4-C2H2-C2H6-C2H2]	IEC 60567
87	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [CH4-C2H2-C2H6-C2H2]	IEC 60599
88	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [CH4-C2H2-C2H6-C2H2]	IS 10593
89	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [CH4-C2H2-C2H6-C2H2]	IS 9434
90	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [CO]	IEC 60567
91	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [CO]	IEC 60599
92	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [CO]	IS 10593
93	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [CO]	IS 9434
94	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [CO2]	IEC 60567
95	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [CO2]	IEC 60599
96	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [CO2]	IS 10593
97	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [CO2]	IS 9434
98	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [H2]	IEC 60567
99	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [H2]	IEC 60599

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100	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [H2]	IS 10593
101	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Dissolve Gas Analysis [H2]	IS 9434
102	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Electric Strength Test/Breakdown Voltage Test	IEC 60156
103	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Electric Strength Test/Breakdown Voltage Test	IS 6792
104	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Flash Point	IS 1448 (Part-21)
105	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Flash Point	ISO 2719
106	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Specific Resistance/Resistivity	IEC 60247
107	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oils	Water Content	IEC 60814 (Ed. 2.0)