



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ADVANCE ELECTRICAL TESTING AND CALIBRATION LAB LLP, SHED NO. 13/1/A,
MAKARPURA GIDC, VADODARA, GUJARAT, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

TC-13758

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Validity

24/05/2024 to 23/05/2026

Last Amended on

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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 Testing				
1	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33 kV	Power frequency voltage withstand test between sections	IEC 61869 (Part-1)
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33 kV	Power frequency voltage withstand test between sections	IEC 61869 (Part-2)
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33 kV	Power frequency voltage withstand test between sections	IS 16227 (Part-1)
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33 kV	Power frequency voltage withstand test between sections	IS 16227 (Part-2)
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33 kV	Power frequency voltage withstand test on primary terminals	IEC 61869 (Part-1)
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33 kV	Power frequency voltage withstand test on primary terminals	IEC 61869 (Part-2)
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33 kV	Power frequency voltage withstand test on primary terminals	IS 16227 (Part-1)
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33 kV	Power frequency voltage withstand test on primary terminals	IS 16227 (Part-2)
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33 kV	Power frequency voltage withstand test on secondary terminals	IEC 61869 (Part-1)
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33 kV	Power frequency voltage withstand test on secondary terminals	IEC 61869 (Part-2)
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33 kV	Power frequency voltage withstand test on secondary terminals	IS 16227 (Part-1)
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33 kV	Winding Resistance	IEC 61869 (Part-1)
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33 kV	Winding Resistance	IEC 61869 (Part-2)
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33 kV	Winding Resistance	IS 16227 (Part-1)



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15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33 kV	Winding Resistance	IS 16227 (Part-2)
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformers up to 33kV	Power frequency voltage withstand test on secondary terminals	IS 16227 (Part-2)
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformer up to and including 2.5MVA,33kV	Magnetic Balance	CBIP Manual
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformer up to and including 2.5MVA,33kV	Neutral Current Measurement	CBIP Manual
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformers up to and including 2.5MVA, 33 kV	Pressure Test	CBIP Manual
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformers up to and including 2.5MVA, 33 kV	Vacuum Test	CBIP Manual
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformer up to and including 2.5MVA, 33kV	Winding Resistance	IEC 60076 (Part-11)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Impedance voltage/short circuit impedance and load loss.	IEC 60076 (Part-1)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Impedance voltage/short circuit impedance and load loss.	IEC 60076 (Part-11)
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Impedance voltage/short circuit impedance and load loss.	IS 2026 (Part-11)
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Induced voltage withstand	IEC 60076 (Part-11)
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Induced voltage withstand	IEC 60076 (Part-3)
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Induced voltage withstand	IS 2026 (Part-11)
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	No load loss and current	IEC 60076 (Part-1)
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	No load loss and current	IEC 60076 (Part-11)
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	No load loss and current	IS 2026 (Part-11)
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Sound Level	IEC 60076 (Part-10)



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32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Sound Level	IEC 60076 (Part-11)
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Sound Level	IS 2026 (Part-11)
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Temperature rise	IEC 60076 (Part-11)
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Temperature rise	IEC 60076 (Part-2)
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Temperature rise	IS 2026 (Part-11)
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Voltage ratio and check of voltage vector relationship	IEC 60076 (Part-1)
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Voltage ratio and check of voltage vector relationship	IEC 60076 (Part-11)
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Voltage ratio and check of voltage vector relationship	IS 2026 (Part-11)
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Winding Resistance	IEC 60076 (Part-1)
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Winding Resistance	IS 2026 (Part-11)
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Harmonics of the no-load current	IEC 60076 (Part-1)
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Harmonics of the no-load current	IS 2026 (Part-1)
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Impedance voltage/short circuit impedance and load loss.	IEC 60076 (Part-1)
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Impedance voltage/short circuit impedance and load loss.	IS 2026 (Part-1)
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Induced voltage withstand	IEC 60076 (Part-3)
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Induced voltage withstand	IS 2026 (Part-3)
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Insulation Resistance	IEC 60076 (Part-1)
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Insulation Resistance	IS 2026 (Part-1)



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50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	No load loss and current	IEC 60076 (Part-1)
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	No load loss and current	IS 2026 (Part-1)
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Sound Level	IEC 60076 (Part-10)
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Sound Level	IS 2026 (Part-10)
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Temperature rise	IEC 60076 (Part-2)
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Temperature rise	IS 2026 (Part-2)
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Voltage ratio and check of voltage vector relationship	IEC 60076 (Part-1)
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Voltage ratio and check of voltage vector relationship	IS 2026 (Part-1)
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Winding Resistance	IEC 60076 (Part-1)
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Winding Resistance	IS 2026 (Part-1)
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Zero sequence impedance for 3 phase transformer	IEC 60076 (Part-1)
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Zero sequence impedance for 3 phase transformer	IS 2026 (Part-1)
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled up to & including 2.5MVA 33kV	Pressure Test	CBIP Manual
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Paint Adhesion Tests	ASTM D3359
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Impedance voltage/short circuit impedance and load loss at 50% and 100 % load.	IS 1180 (Part-1)
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Impedance voltage/short circuit impedance and load loss at 50% and 100 % load.	IS 2026 (Part-1)
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Induced over voltage withstand	IS 1180 (Part-1)
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Induced over voltage withstand	IS 2026 (Part-3)



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68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Insulation Resistance	IS 1180(Part-1)
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Insulation Resistance	IS 2026 (Part-1)
70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	No load current at 112.5 percent voltage	IS 1180 (Part-1)
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	No load current at 112.5 percent voltage	IS 1180 (Part-3)
72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	No load loss and current	IS 1180 (Part-1)
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	No load loss and current	IS 2026 (Part-1)
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Oil leakage	IS 1180 (Part-1)
75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Paint Adhesion Tests	IS 1180 (Part-1)
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Pressure test (Routine)	IS 1180 (Part-1)
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Pressure test (Type)	IS 1180 (Part-1)
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Separate source voltage withstand	IS 1180 (Part-1)
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Separate source voltage withstand	IS 2026 (Part-3)
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Sound Level	IS 1180(Part-1)
81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Sound Level	IS 2026 (Part-10)
82	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Temperature rise	IS 1180 (Part-1)
83	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Temperature rise	IS 2026 (Part-2)
84	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Voltage ratio and check of voltage vector relationship	IS 1180 (Part-1)
85	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Voltage ratio and check of voltage vector relationship	IS 2026 (Part-1)
86	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Winding Resistance	IS 1180 (Part-1)



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87	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Winding Resistance	IS 2026 (Part-1)
88	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Impedance voltage/short circuit impedance and load loss at 50 % and 100 % load.	IS 2026 (Part-1)
89	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Impedance voltage/short circuit impedance and load loss at 50% and 100 % load	IS 1180 (Part-3)
90	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Induced over voltage withstand	IS 1180 (Part-3)
91	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Induced over voltage withstand	IS 2026 (Part-3)
92	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Insulation Resistance	IS 1180 (Part-3)
93	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Insulation Resistance	IS 2026 (Part-1)
94	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	No load loss and current	IS 1180 (Part-3)
95	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	No load loss and current	IS 2026 (Part-1)
96	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Paint Adhesion Tests	ASTM D3359
97	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Paint Adhesion Tests	IS 1180 (Part-3)
98	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Pressure test (Routine)	IS 1180 (Part-3)
99	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Pressure test (Type)	IS 1180 (Part-3)
100	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Separate source voltage withstand	IS 1180 (Part-3)



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101	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Separate source voltage withstand test	IS 2026 (Part-3)
102	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Sound Level	IS 1180 (Part-3)
103	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Sound Level	IS 2026 (Part-10)
104	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Temperature rise	IS 1180 (Part-3)
105	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Temperature rise	IS 2026 (Part-2)
106	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Voltage ratio and check of voltage vector relationship	IS 1180 (Part-3)
107	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Voltage ratio and check of voltage vector relationship	IS 2026 (Part-1)
108	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Winding Resistance	IS 1180 (Part-3)
109	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Winding Resistance	IS 2026 (Part-1)
110	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test between sections	IEC 61869 (Part-1)
111	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test between sections	IEC: 61869 (Part-3)
112	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test between sections	IS 16227(Part-1)
113	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test between sections	IS: 16227 (Part-3)
114	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test on primary terminals	IEC 61869 (Part-3)



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115	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test on primary terminals	IEC: 61869 (Part-1)
116	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test on primary terminals	IS 16227 (Part-1)
117	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test on primary terminals	IS 16227 (Part-3)
118	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test on secondary terminals	IEC 61869 (Part-1)
119	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test on secondary terminals	IEC 61869 (Part-3)
120	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test on secondary terminals	IS 16227 (Part-1)
121	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test on secondary terminals	IS 16227 (Part-3)
122	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Breakdown Voltage (BDV)	IEC 60156
123	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Breakdown Voltage (BDV)	IS 335, IS 1180 (Part-1), IS 1180 (Part-3)
124	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil	Breakdown Voltage (BDV)	IS 6792



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Site Testing				
1	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformer up to and including 2.5MVA,33kV	Magnetic Balance	CBIP Manual
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformer up to and including 2.5MVA,33kV	Neutral Current Measurement	CBIP Manual
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformers up to and including 2.5MVA, 33 kV	Pressure Test	CBIP Manual
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformers up to and including 2.5MVA, 33 kV	Vacuum Test	CBIP Manual
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Transformer up to and including 2.5MVA, 33kV	Winding Resistance	IEC 60076 (Part-11)
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Impedance voltage/short circuit impedance and load loss.	IEC 60076 (Part-1)
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Impedance voltage/short circuit impedance and load loss.	IEC 60076 (Part-11)
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Impedance voltage/short circuit impedance and load loss.	IS 2026 (Part-11)
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	No load loss and current	IEC 60076 (Part-1)
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	No load loss and current	IEC 60076 (Part-11)
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	No load loss and current	IS 2026 (Part-11)
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Sound Level	IEC 60076 (Part-10)
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Sound Level	IEC 60076 (Part-11)
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Sound Level	IS 2026 (Part-11)
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Temperature rise	IEC 60076 (Part-11)
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Temperature rise	IEC 60076 (Part-2)
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Temperature rise	IS 2026 (Part-11)



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18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Voltage ratio and check of voltage vector relationship	IEC 60076 (Part-1)
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Voltage ratio and check of voltage vector relationship	IEC 60076 (Part-11)
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Voltage ratio and check of voltage vector relationship	IS 2026 (Part-11)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Winding Resistance	IEC 60076 (Part-1)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 2.5MVA, 33 kV	Winding Resistance	IS 2026 (Part-11)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Harmonics of the no-load current	IEC 60076 (Part-1)
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Harmonics of the no-load current	IS 2026 (Part-1)
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Impedance voltage/short circuit impedance and load loss.	IEC 60076 (Part-1)
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Impedance voltage/short circuit impedance and load loss.	IS 2026 (Part-1)
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Insulation Resistance	IEC 60076 (Part-1)
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Insulation Resistance	IS 2026 (Part-1)
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	No load loss and current	IEC 60076 (Part-1)
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	No load loss and current	IS 2026 (Part-1)
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Sound Level	IEC 60076 (Part-10)
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Sound Level	IS 2026 (Part-10)
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Temperature rise	IEC 60076 (Part-2)
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Temperature rise	IS 2026 (Part-2)
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Voltage ratio and check of voltage vector relationship	IEC 60076 (Part-1)



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36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Voltage ratio and check of voltage vector relationship	IS 2026 (Part-1)
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Winding Resistance	IEC 60076 (Part-1)
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Winding Resistance	IS 2026 (Part-1)
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Zero sequence impedance for 3 phase transformer	IEC 60076 (Part-1)
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 2.5MVA, 33 kV	Zero sequence impedance for 3 phase transformer	IS 2026 (Part-1)
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Cooled up to & including 2.5MVA 33kV	Pressure Test	CBIP Manual
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Paint Adhesion Tests	ASTM D3359
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Impedance voltage/short circuit impedance and load loss at 50% and 100 % load.	IS 1180 (Part-1)
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Impedance voltage/short circuit impedance and load loss at 50% and 100 % load.	IS 2026 (Part-1)
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Insulation Resistance	IS 1180(Part-1)
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Insulation Resistance	IS 2026 (Part-1)
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	No load current at 112.5 percent voltage	IS 1180 (Part-1)
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	No load current at 112.5 percent voltage	IS 1180 (Part-3)
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	No load loss and current	IS 1180 (Part-1)
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	No load loss and current	IS 2026 (Part-1)
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Oil leakage	IS 1180 (Part-1)
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Paint Adhesion Tests	IS 1180 (Part-1)
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Pressure test (Routine)	IS 1180 (Part-1)



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54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Pressure test (Type)	IS 1180 (Part-1)
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Sound Level	IS 1180(Part-1)
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Sound Level	IS 2026 (Part-10)
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Temperature rise	IS 1180 (Part-1)
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Temperature rise	IS 2026 (Part-2)
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Voltage ratio and check of voltage vector relationship	IS 1180 (Part-1)
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Voltage ratio and check of voltage vector relationship	IS 2026 (Part-1)
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Winding Resistance	IS 1180 (Part-1)
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Mineral Oil Immersed)	Winding Resistance	IS 2026 (Part-1)
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Impedance voltage/short circuit impedance and load loss at 50 % and 100 % load.	IS 2026 (Part-1)
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Impedance voltage/short circuit impedance and load loss at 50% and 100 % load	IS 1180 (Part-3)
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Insulation Resistance	IS 1180 (Part-3)
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Insulation Resistance	IS 2026 (Part-1)
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	No load loss and current	IS 1180 (Part-3)
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	No load loss and current	IS 2026 (Part-1)
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Paint Adhesion Tests	ASTM D3359



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70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Paint Adhesion Tests	IS 1180 (Part-3)
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Pressure test (Routine)	IS 1180 (Part-3)
72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Pressure test (Type)	IS 1180 (Part-3)
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Sound Level	IS 1180 (Part-3)
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Sound Level	IS 2026 (Part-10)
75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Temperature rise	IS 1180 (Part-3)
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Temperature rise	IS 2026 (Part-2)
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Voltage ratio and check of voltage vector relationship	IS 1180 (Part-3)
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Voltage ratio and check of voltage vector relationship	IS 2026 (Part-1)
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Winding Resistance	IS 1180 (Part-3)
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2.5MVA, 33 kV (Natural/Synthetic Organic Ester Liquid Immersed)	Winding Resistance	IS 2026 (Part-1)