



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ELECTRICAL POWER RESEARCH LABORATORY, PLOT NO. 25, AATMIYA  
BROOKFIELDZ INDUSTRIAL PARK AT UNTIYA (KAJAPUR) VILLAGE, POR  
VILLAGE, VADODARA, GUJARAT, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** TC-11921

**Page No** 1 of 11

**Validity** 13/07/2025 to 12/07/2029

**Last Amended on** -

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 Transformer up to 33 kV	Lightning Impulse test with and without chopping	IS 16227 (Part 1) and (Part 2); IEC 61869 (Part 1) and (Part-2)
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer up to 33 kV	Measurement of Winding Resistance	IS 16227 (Part 1) and (Part 2); IEC 61869 (Part 1) and (Part 2)
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer up to 33 kV	Power frequency voltage withstand test between sections	IS 16227 (Part 1) and (Part 2); IEC 61869 (Part 1) and (Part 2)
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer up to 33 kV	Power frequency voltage withstand test on primary terminals	IS 16227 (Part 1) and (Part 2); IEC 61869 (Part 1) and (Part 2)
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer up to 33 kV	Power frequency voltage withstand test on secondary terminals	IS 16227 (Part 1) and (Part 2); IEC 61869 (Part 1) and (Part 2)
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformers up to and including 5MVA, 33 kV	Magnetic balance on three phase transformer	Section BB of CBIP Manual on transformer
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformers up to and including 5MVA, 33 kV	Neutral current measurement	Section B of CBIP Manual on transformer
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformers up to and including 5MVA, 33 kV	Pressure test	Section A of CBIP Manual on transformer
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformers up to and including 5MVA, 33 kV	Vacuum test	Section A of CBIP Manual on transformer
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 15MVA, 33 kV	Lightning Impulse test with and without chopping	IS 2026 (Part 11), IEC 60076 (Part 3); IEC 60076 (Part 11), IEC 60076 (Part 3)
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Applied Voltage Test	IS 2026 (Part 11), IEC 60076 (Part 3); IEC 60076 (Part 11), IEC 60076 (Part 3)
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Determination of Sound Level	IS 2026 (Part 11), IEC 60076 (Part 10); IEC 60076 (Part 11), IEC 60076 (Part 10)
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Induced voltage withstand test	IS 2026 (Part 11), IEC 60076 (Part 3); IEC 60076 (Part 11), IEC: 60076 (Part 3)
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Measurement of impedance voltage/short circuit impedance	IS 2026 (Part 11), IEC 60076 (Part 1); IEC 60076 (Part 11), IEC 60076 (Part 1)
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Measurement of load loss	IS 2026 (Part 11), IEC 60076 (Part 1); IEC 60076 (Part 11), IEC 60076 (Part 1)
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Measurement of no load current	IS 2026 (Part 11), IEC 60076 (Part 1); IEC 60076 (Part 11), IEC 60076 (Part 1)

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17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Measurement of no load loss	IS 2026 (Part 11), IEC 60076 (Part 1); IEC 60076 (Part 11), IEC 60076 (Part 1)
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Measurement of voltage ratio and check of voltage vector relationship	IS 2026 (Part 11), IEC 60076 (Part 1); IEC 60076 (Part 11), IEC 60076 (Part 1)
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Measurement of winding resistance	IS 2026 (Part 11), IEC 60076 (Part 1); IEC 60076 (Part 11), IEC 60076 (Part 1)
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Temperature rise test	IS 2026 (Part 11), IEC 60076 (Part 2); IEC 60076 (Part 11), IEC 60076 (Part 2)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 15MVA, 33 kV	Lightning Impulse test with and without chopping	IS 2026 (Part 3); IEC 60076 (Part 3)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Applied Voltage Test	IS 2026 (Part 3); IEC 60076 (Part 3)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Determination of sound level	IS 2026 (Part 10); IEC 60076 (Part 10)
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Induced voltage withstand test	IS 2026 (Part 3); IEC 60076 (Part 3)
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of impedance voltage/short circuit impedance	IS 2026 (Part 1); IEC 60076 (Part 1)
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of insulation resistance	IS 2026 (Part 1); IEC 60076 (Part 1)
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of load loss	IS 2026 (Part 1); IEC 60076 (Part 1)
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of no load current	IS 2026 (Part 1); IEC 60076 (Part 1)
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of no load loss	IS 2026 (Part 1); IEC 60076 (Part 1)
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of the harmonics of the no-load current	IS 2026 (Part 1); IEC 60076 (Part 1)
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of voltage ratio and check of voltage vector relationship	IS 2026 (Part 1); IEC 60076 (Part 1)
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of winding resistance	IS 2026 (Part 1); IEC 60076 (Part 1)
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of zero sequence impedance for 3 phase transformer	IS 2026 (Part 1); IEC: 60076 (Part 1)



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34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Temperature rise test	IS 2026 (Part 2); IEC 60076 (Part 2)
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Determination of sound level	IS 1180 (Part 1), IS 2026 (Part 10)
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Induced over voltage withstand test	IS 1180 (Part 1), IS 2026 (Part 3)
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Lightning Impulse test with and without chopping	IS 1180 (Part 1), IS 2026 (Part 3)
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Measurement of impedance voltage/short circuit impedance at 50 % and 100 % load.	IS 1180 (Part 1), IS 2026 (Part 1)
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Measurement of insulation resistance	IS 1180 (Part 1), IS 2026 (Part 1)
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Measurement of load loss at 50 % and 100 % load.	IS 1180 (Part 1), IS 2026 (Part 1)
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Measurement of no load current	IS 1180 (Part 1), IS 2026 (Part 1)
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Measurement of no load loss	IS 1180 (Part 1), IS 2026 (Part 1)
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Measurement of voltage ratio and check of voltage vector relationship	IS 1180 (Part 1), IS 2026 (Part 1)
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Measurement of winding resistance	IS 1180 (Part 1), IS 2026 (Part 1)
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	No load current at 112.5 percent voltage	IS 1180 (Part 1)
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Oil leakage test	IS 1180 (Part 1)
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Paint Adhesion Tests	IS 1180 (Part 1), ASTM D3359
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Pressure test (Routine)	IS 1180 (Part 1)
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Pressure test (Type)	IS 1180 (Part 1)
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Separate source voltage withstand test	IS 1180 (Part 1), IS 2026 (Part 3)
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Temperature rise test	IS 1180 (Part 1), IS 2026 (Part 2)
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Vacuum Test	IS 1180 (Part 1)

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53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Determination of Sound Level	IS 1180 (Part 3), IS 2026 (Part 10)
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Ester Liquid leakage test	IS 1180 (Part 3)
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Induced over voltage withstand test	IS 1180 (Part 3), IS 2026 (Part 3)
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Lightning Impulse test with and without chopping	IS 1180 (Part 3), IS 2026 (Part 3)
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Measurement of impedance voltage/short circuit impedance at 50 % and 100 % load.	IS 1180 (Part 3), IS 2026 (Part 1)
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Measurement of insulation resistance	IS 1180 (Part 3), IS 2026 (Part 1)
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Measurement of load loss at 50 % and 100 % load.	IS 1180 (Part 3), IS 2026 (Part 1)
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Measurement of no load current	IS 1180 (Part 3), IS 2026 (Part 1)
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Measurement of no load loss	IS 1180 (Part 3), IS 2026 (Part 1)
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Measurement of voltage ratio and check of voltage vector relationship	IS 1180 (Part 3), IS 2026 (Part 1)
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Measurement of winding resistance	IS 1180(Part 3), IS 2026 (Part1)
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	No load current at 112.5 percent voltage	IS 1180 (Part 3)
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Paint Adhesion Tests	IS 1180 (Part 3), ASTM D3359
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Pressure test (Routine)	IS 1180 (Part 3)



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67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Pressure test (Type)	IS 1180 (Part 3)
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Separate source voltage withstand test	IS 1180 (Part 3), IS 2026 (Part 3)
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Temperature rise test	IS 1180 (Part 3), IS 2026 (Part 2)
70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Vacuum Test	IS 1180 (Part 3)
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Lightning Impulse test with and without chopping	IS 16227 (Part 1) and (Part 3); IEC 61869 (Part 1) and (Part 3)
72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test between sections	IS 16227 (Part 1) and (Part 3); IEC 61869 (Part 1) and (Part 3)
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test on primary terminals	IS 16227 (Part 1) and (Part 3); IEC 61869 (Part 1) and (Part 3)
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test on secondary terminals	IS 16227 (Part 1) and (Part 3); IEC 61869 (Part 1) and (Part 3)
75	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral oil	BDV of oil in the transformer	IS 1180 (Part 1)
76	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Mineral oil	Moisture content of oil in the transformer	IS 1180 (Part 1)
77	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Natural / synthetic organic Ester Liquid	BDV of oil in the transformer	IS 1180 (Part 3)
78	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Natural / synthetic organic Ester Liquid	Moisture content of oil in the transformer	IS 1180 (Part 3)



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Site Testing				
1	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer up to 33 kV	Measurement of Winding Resistance	IS 16227 (Part 1) and (Part 2); IEC 61869 (Part 1) and (Part 2)
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer up to 33 kV	Power frequency voltage withstand test between sections	IS 16227 (Part 1) and (Part 2); IEC 61869 (Part 1) and (Part 2)
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer up to 33 kV	Power frequency voltage withstand test on primary terminals	IS 16227 (Part 1) and (Part 2); IEC 61869 (Part 1) and (Part 2)
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer up to 33 kV	Power frequency voltage withstand test on secondary terminals	IS 16227 (Part 1) and (Part 2); IEC 61869 (Part 1) and (Part 2)
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformers up to and including 5MVA, 33 kV	Magnetic balance on three phase transformer	Section BB of CBIP Manual on transformer
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformers up to and including 5MVA, 33 kV	Neutral current measurement	Section B of CBIP Manual on transformer
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformers up to and including 5MVA, 33 kV	Pressure test	Section A of CBIP Manual on transformer
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution and Power Transformers up to and including 5MVA, 33 kV	Vacuum test	Section A of CBIP Manual on transformer
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Applied Voltage Test	IS 2026 (Part 11), IEC 60076 (Part 3); IEC 60076 (Part 11), IEC 60076 (Part 3)
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Determination of Sound Level	IS 2026 (Part 11), IEC 60076 (Part 10); IEC 60076 (Part 11), IEC 60076 (Part 10)
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Induced voltage withstand test	IS 2026 (Part 11), IEC 60076 (Part 3); IEC 60076 (Part 11), IEC: 60076 (Part 3)
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Measurement of impedance voltage/short circuit impedance	IS 2026 (Part 11), IEC 60076 (Part 1); IEC 60076 (Part 11), IEC 60076 (Part 1)
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Measurement of load loss	IS 2026 (Part 11), IEC 60076 (Part 1); IEC 60076 (Part 11), IEC 60076 (Part 1)
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Measurement of no load current	IS 2026 (Part 11), IEC 60076 (Part 1); IEC 60076 (Part 11), IEC 60076 (Part 1)
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Measurement of no load loss	IS 2026 (Part 11), IEC 60076 (Part 1); IEC 60076 (Part 11), IEC 60076 (Part 1)



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17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Measurement of winding resistance	IS 2026 (Part 11), IEC 60076 (Part 1); IEC 60076 (Part 11), IEC 60076 (Part 1)
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry type transformer up to and including 5MVA, 33 kV	Temperature rise test	IS 2026 (Part 11), IEC 60076 (Part 2); IEC 60076 (Part 11), IEC 60076 (Part 2)
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Applied Voltage Test	IS 2026 (Part 3); IEC 60076 (Part 3)
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Determination of sound level	IS 2026 (Part 10); IEC 60076 (Part 10)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Induced voltage withstand test	IS 2026 (Part 3); IEC 60076 (Part 3)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of impedance voltage/short circuit impedance	IS 2026 (Part 1); IEC 60076 (Part 1)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of insulation resistance	IS 2026 (Part 1); IEC 60076 (Part 1)
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of load loss	IS 2026 (Part 1); IEC 60076 (Part 1)
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of no load current	IS 2026 (Part 1); IEC 60076 (Part 1)
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of no load loss	IS 2026 (Part 1); IEC 60076 (Part 1)
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of the harmonics of the no-load current	IS 2026 (Part 1); IEC 60076 (Part 1)
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of voltage ratio and check of voltage vector relationship	IS 2026 (Part 1); IEC 60076 (Part 1)
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of winding resistance	IS 2026 (Part 1); IEC 60076 (Part 1)
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Measurement of zero sequence impedance for 3 phase transformer	IS 2026 (Part 1); IEC: 60076 (Part 1)
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled transformer up to and including 5MVA, 33 kV	Temperature rise test	IS 2026 (Part 2); IEC 60076 (Part 2)
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Applied Voltage Test	IS 2026 (Part 3); IEC 60076 (Part 3)
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Determination of sound level	IS: 2026 (Part-10); IEC: 60076 (Part 10)

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# National Accreditation Board for Testing and Calibration Laboratories

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VILLAGE, VADODARA, GUJARAT, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

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34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Induced voltage withstand test	IS 2026 (Part 3); IEC: 60076 (Part 3)
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Magnetic balance on three phase transformer	Section BB of CBIP Manual on transformer
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Measurement of impedance voltage/short circuit impedance	IS 2026 (Part 1); IEC 60076 (Part 1)
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Measurement of insulation resistance	IS 2026 (Part 1); IEC 60076 (Part 1)
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Measurement of load loss	IS 2026 (Part 1); IEC 60076 (Part 1)
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Measurement of no load current	IS 2026 (Part 1); IEC 60076 (Part 1)
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Measurement of no load loss	IS 2026 (Part 1); IEC 60076 (Part 1)
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Measurement of the harmonics of the no-load current	IS 2026 (Part 1); IEC 60076 (Part 1)
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Measurement of voltage ratio and check of voltage vector relationship	IS 2026 (Part 1); IEC 60076 (Part 1)
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Measurement of winding resistance	IS 2026 (Part 1); IEC 60076 (Part 1)
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Measurement of zero sequence impedance for 3 phase transformer	IS 2026 (Part 1); IEC 60076 (Part 1)
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Neutral current measurement	Section B of CBIP Manual on transformer
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Pressure test	Section A of CBIP Manual on transformer
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Temperature rise test	IS 2026 (Part 2); IEC 60076 (Part 2)
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil cooled up to and including 25 MVA	Vacuum test	Section A of CBIP Manual on transformer
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Determination of sound level	IS 1180 (Part 1), IS 2026 (Part 10)
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Induced over voltage withstand test	IS 1180 (Part 1), IS 2026 (Part 3)
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Measurement of impedance voltage/short circuit impedance at 50 % and 100 % load.	IS 1180 (Part 1), IS 2026 (Part 1)



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52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Measurement of insulation resistance	IS 1180 (Part 1), IS 2026 (Part 1)
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Measurement of load loss at 50 % and 100 % load.	IS 1180 (Part 1), IS 2026 (Part 1)
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Measurement of no load current	IS 1180 (Part 1), IS 2026 (Part 1)
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Measurement of no load loss	IS 1180 (Part 1), IS 2026 (Part 1)
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Measurement of voltage ratio and check of voltage vector relationship	IS 1180 (Part 1), IS 2026 (Part 1)
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Measurement of winding resistance	IS 1180 (Part 1), IS 2026 (Part 1)
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	No load current at 112.5 percent voltage	IS 1180 (Part 1)
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Oil leakage test	IS 1180 (Part 1)
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Paint Adhesion Tests	IS 1180 (Part 1), ASTM D3359
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Pressure test (Routine)	IS 1180 (Part 1)
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Pressure test (Type)	IS 1180 (Part 1)
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Separate source voltage withstand test	IS 1180 (Part 1), IS 2026 (Part 3)
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Temperature rise test	IS 1180 (Part 1), IS 2026 (Part 2)
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor Type Oil Immersed Distribution Transformers up to and including 2500 kVA, 33 kV (Mineral Oil Immersed)	Vacuum Test	IS 1180 (Part 1)
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Determination of Sound Level	IS 1180 (Part 3), IS 2026 (Part 10)
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Ester Liquid leakage test	IS 1180 (Part 3)
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Induced over voltage withstand test	IS 1180 (Part 3), IS 2026 (Part 3)
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Measurement of impedance voltage/short circuit impedance at 50 % and 100 % load.	IS 1180 (Part 3), IS 2026 (Part 1)

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70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Measurement of insulation resistance	IS 1180 (Part 3), IS 2026 (Part 1)
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Measurement of load loss at 50 % and 100 % load.	IS 1180 (Part 3), IS 2026 (Part 1)
72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Measurement of no load current	IS 1180 (Part 3), IS 2026 (Part 1)
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Measurement of no load loss	IS 1180 (Part 3), IS 2026 (Part 1)
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Measurement of voltage ratio and check of voltage vector relationship	IS 1180 (Part 3), IS 2026 (Part 1)
75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Measurement of winding resistance	IS 1180(Part 3), IS 2026 (Part1)
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	No load current at 112.5 percent voltage	IS 1180 (Part 3)
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Paint Adhesion Tests	IS 1180 (Part 3), ASTM D3359
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Pressure test (Routine)	IS 1180 (Part 3)
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Pressure test (Type)	IS 1180 (Part 3)
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Separate source voltage withstand test	IS 1180 (Part 3), IS 2026 (Part 3)
81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Temperature rise test	IS 1180 (Part 3), IS 2026 (Part 2)
82	ELECTRICAL- INDUCTORS & TRANSFORMERS	Outdoor/Indoor Type Liquid Immersed Distribution Transformers up to and including 2500 kVA, 33 kV(Natural/Synthetic Organic Ester Liquid Immersed)	Vacuum Test	IS 1180 (Part 3)
83	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test between sections	IS 16227 (Part 1) and (Part 3); IEC 61869 (Part 1) and (Part 3)



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84	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test on primary terminals	IS 16227 (Part 1) and (Part 3); IEC 61869 (Part 1) and (Part 3)
85	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformers up to 33 kV	Power frequency voltage withstand test on secondary terminals	IS 16227 (Part 1) and (Part 3); IEC 61869 (Part 1) and (Part 3)