National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TRANSFORMER TESTING LABORATORY, TMC TRANSFORMERS (INDIA) PVT. LTD., SUR. NO. 26 1/2, PART B, VILLAGE KHANDIWADA, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10251 **Page No** 1 of 5

Validity 24/01/2022 to 23/01/2024 **Last Amended on** 08/09/2022

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	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Applied Voltage Test	Cl. 10 of IEC 60076-3 :2013+AMD1
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Applied Voltage Test	Cl. 10. of IS 2026 (Part 3)-Rev-04
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Induced Voltage Test	Cl. 11 of IEC 60076-3 :2013+AMD1
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Induced Voltage Test	Cl. 11. of IS 2026 (Part 3)-Rev-04
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of Impedance Voltage &short circuit Impedance	Cl. 10.4 of IS 2026 (Part 1), Rev 02
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of Impedance Voltage &short circuit Impedance	Cl. 11.4 of IEC 60076 (Part 1) Edition 3.0
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of Load Loss	Cl. 10.4 of IS 2026 (Part 1), Rev 02
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of No Load Loss	Cl. 11.5 of IEC 60076 (Part 1) Edition 3.0
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Temperature Rise Test	Cl. 5.0 of IS 2026 (Part 2), Rev-01
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Temperature Rise Test	Cl. 7.0 of IEC 60076 (Part 2) Edition 3.0
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 KV Class)	Measurement of winding resistance	Cl. 10.2 of IS 2026 (Part 1), Rev 02
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 kV Class)	Measurement of winding resistance	Cl. 14.2.1 of IS 2026 (Part 11), Rev 00
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 kV Class)	Voltage Ratio and check of voltage vector relationship	Cl. 14.2.2, IEC 60076 (Part 11) Edition 2.0
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of No Load Current	Cl. 14.2.4 of IS 2026 (Part 11)
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of No Load Current	Cl. 14.2.4, IEC 60076 (Part 11) Edition 2.0
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of No Load Loss	Cl. 14.2.4 of IS 2026 (Part 11), Rev 00
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of No Load Loss	Cl. 14.2.4, IEC 60076 (Part 11)

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18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Applied Voltage Test	Cl. 14.2.5 of IS 2026 (Part 11), Rev 00
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Applied Voltage Test	Cl. 14.2.5, IEC 60076 (Part 11) Edition 2.0
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Determination of Sound level	Cl. 14.4.2 of IS 2026 (Part 11)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Determination of Sound level	Cl. 14.4.2, IEC 60076 (Part 11) Edition 2.0
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Determination of Sound level	IEC 60076 (Part 10) Edition 2.0
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Induced Voltage Test	Cl. 14.2.6 of IS 2026 (Part 11), Rev 00
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Induced Voltage Test	Cl. 14.2.6, IEC 60076 (Part 11) Edition 2.0
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Magnetic Balance test	CBIP Manual Pub. No 317-2013 Amendment
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of Impedance Voltage &short circuit Impedance	Cl. 14.2.3 of IS 2026 (Part 11), Rev 00
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of Impedance Voltage &short circuit Impedance	Cl. 14.2.3, IEC 60076 (Part 11) Edition 2.0
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of Insulation Resistance and polarization index	CBIP Manual Pub. No 317-2013 Amendment
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of Load Loss	Cl. 14.2.3 of IS 2026 (Part 11), Rev 00
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of Load Loss	Cl. 14.2.3, IEC 60076 (Part 11) Edition 2.0
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of Partial Discharge	Cl. 14.2.7 of IS 2026 (Part 11), Rev 00
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of Partial Discharge	Cl. 14.2.7, IEC 60076 (Part 11) Edition 2.0
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Temperature Rise Test	Cl. 14.3.2 of IS 2026 (Part 11), Rev 00
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Temperature Rise Test	Cl. 14.3.2, IEC 60076 (Part 11) Edition 2.0
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (Up to 5 MVA, 33 Kv Class)	Voltage Ratio and check of voltage vector relationship	Cl. 14.2.2 of IS 2026 (Part 11), Rev 00

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36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Dry Type Distribution transformers (up to 5 MVA, 33 kV Class)	Measurement of winding resistance	Cl. 14.2.1, IEC 60076 (Part 11) Edition 2.0
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 2.5 MVA, 33 Kv Class)	Applied Voltage Test	Cl. 21.2(g) of IS 1180 (Part 1), Rev-04
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 2.5 MVA, 33 Kv Class)	Determination of Sound level	Cl. 21.4(a) of IS 1180 (Part 1), Rev-04
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 2.5 MVA, 33 Kv Class)	Induced Voltage Test	Cl. 21.2(f) of IS 1180 (Part 1), Rev-04
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 2.5 MVA, 33 Kv Class)	Measurement of Impedance Voltage &short circuit Impedance	Cl. 21.2(c) of IS 1180 (Part 1), Rev-04
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 2.5 MVA, 33 Kv Class)	Measurement of Insulation Resistance	Cl. 21.2(e) of IS 1180 (Part 1), Rev-04
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 2.5 MVA, 33 Kv Class)	Measurement of Load Loss	Cl. 21.2(c) of IS 1180 (Part 1), Rev-04
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 2.5 MVA, 33 Kv Class)	Measurement of No Load Current	Cl. 21.2(d) of IS 1180 (Part 1), Rev-04
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 2.5 MVA, 33 Kv Class)	Measurement of No Load Loss	Cl. 21.2(d) of IS 1180 (Part 1), Rev-04
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 2.5 MVA, 33 Kv Class)	Temperature Rise Test	Cl. 21.3(b) of IS 1180 (Part 1), Rev-04
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 2.5 MVA, 33 Kv Class)	Voltage Ratio and check of voltage vector relationship	Cl. 21.2(b) of IS 1180 (Part 1), Rev-04
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (up to 2.5 MVA, 33 kV Class)	Measurement of winding resistance	Cl. 21.2(a) of IS 1180 (Part 1), Rev-04
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of Insulation Resistance and polarization index	CBIP Manual Pub. No 317
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of No Load Current	Cl. 10.5 of IS 2026 (Part 1), Rev 02
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of No Load Current	Cl. 11.5 of IEC 60076 (Part 1) Edition 3.0
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of No Load Loss	Cl. 10.5 of IS 2026 (Part 1), Rev 02
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Determination of Sound level	Cl. 5.5 of IS 2026 (Part 10)
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Magnetic Balance test	CBIP Manual Pub. No 317-2013 Amendment

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54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of Load Loss	Cl. 11.4 of IEC 60076 (Part 1) Edition 3.0
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Voltage Ratio and check of voltage vector relationship	Cl. 10.3 of IS 2026 (Part 1), Rev 02
56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Voltage Ratio and check of voltage vector relationship	Cl. 11.3 of IEC 60076 (Part 1) Edition 3.0
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Distribution transformers (Up to 5 MVA, 33 Kv Class)	Measurement of winding resistance	Cl. 11.2 of IEC 60076-1 (Part 1) Edition 3.0
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Applied Voltage Test	Cl. 10 of IEC 60076-3 :2013+AMD1
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Applied Voltage Test	Cl. 10 of IS 2026 (Part 3)-Rev-04
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Check of the ratio and polarity of built-in current transformers	Cl. 11.1.2.1(j) of IEC 60076-1 (Part 1) Edition 3.0
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Determination of Sound level	Cl. 5.5 of IS 2026 (Part 10)
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Determination of Sound level	IEC 60076 (Part 10) Edition 3.0:
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Induced Voltage Test	Cl. 11.2 of IS 2026 (Part 3)-Rev-04
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Induced Voltage Test	Cl. 11.2 of IEC 60076-3
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Magnetic Balance test	CBIP Manual Pub. No 317
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement of Impedance Voltage &short circuit Impedance	Cl. 10.4 of IS 2026 (Part 1), Rev 02
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement of Impedance Voltage &short circuit Impedance	Cl. 11.4 of IEC 60076 (Part 1) Edition 3.0
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement of Insulation Resistance	CBIP Manual Pub. No 317
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement of Insulation Resistance	Cl. 10.1.3(j) of IS 2026 (Part 1), Rev 02
70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement of Load Loss	Cl. 10.4 of IS 2026 (Part 1), Rev 02
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement of Load Loss	Cl. 11.4 of IEC 60076 (Part 1) Edition 3.0

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72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement of No Load Current	Cl. 10.5 of IS 2026 (Part 1), Rev 02
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement of No Load Current	Cl. 11.5 of IEC 60076 (Part 1) Edition 3.0
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement of No Load Loss	Cl. 10.5 of IS 2026 (Part 1), Rev 02
75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement of No Load Loss	Cl. 11.5 of IEC 60076 (Part 1) Edition 3.0
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement of the harmonics of the no-load current	Cl. 10.6 of IS 2026 (Part 1), Rev 02
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement of Winding Resistance	Cl. 10.2 of IS 2026 (Part 1), Rev 02
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement of Winding Resistance	Cl. 11.2 of IEC 60076-1 (Part 1) Edition 3.0
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement of zero-sequence impedance	Cl. 10.7 of IS 2026 (Part 1), Rev 02
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement of zero-sequence impedance	Cl. 11.6 of IEC 60076-1 (Part 1) Edition 3.0
81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Measurement Polarization index	CBIP Manual Pub. No 317
82	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Temperature Rise Test	Cl. 5.0 of IS 2026 (Part 2), Rev-01
83	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Temperature Rise Test	Cl. 7.0 of IEC 60076 (Part 2) Edition 3.0
84	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Voltage Ratio and check of voltage vector relationship	Cl. 10.3 of IS 2026 (Part 1), Rev 02
85	ELECTRICAL- INDUCTORS & TRANSFORMERS	Oil Filled Power Transformers up to 50 MVA, 132 kV Class	Voltage Ratio and check of voltage vector relationship	Cl. 11.3 of IEC 60076 (Part 1) Edition 3.0
86	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformers up to 50 MVA, 132 KV class	Check of Core & Frame insulation	Cl. 11.12 of IEC 60076-1 (Part 1) Edition 3.0
87	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformers up to 50 MVA, 132 KV class	Insulation Test for auxiliary wiring	Cl. 9 of IEC 60076-3
88	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformers up to 50 MVA, 132 KV class	Insulation Test for auxiliary wiring	Cl. 9 of IS 2026 (Part 3)-Rev-04: