National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TRANSFORMER TESTING LABORATORY-TBI, SCHNEIDER ELECTRIC INFRASTRUCTURE LIMITED, MILE STONE 87, BARODA-HALOL HIGHWAY, KOTAMBI VILLAGE, PO. JAROD, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8252 **Page No** 1 of 6

Validity 01/01/2022 to 31/12/2023 **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 Facility				
1	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Up to 5 MVA, 33 Kv Class)	No Load Current	IEC 60076 (Part 1) Edition 3.0
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformer (Up to 5 MVA, 33 Kv Class)	No Load Current	IEEE C.57.12.90 - 2010 Rev.
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer (Up to 5 MVA, 33 Kv Class)	No Load Current	IS 1180 (Part 1), Rev-04
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer (Up to 5 MVA, 33 Kv Class)	No load loss	IEC 60076 (Part 1), Edition 3.0
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer (Up to 5 MVA, 33 Kv Class)	No Load Loss	IEEE C.57.12.90 - 2010 Rev.
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformer (Up to 5 MVA, 33 Kv Class)	No Load Loss	IS 1180 (Part 1), Rev-04
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Acoustic Noise Level (Audible Sound Emissions)	IEC 60076 (Part 10) Edition 2.0
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Acoustic Noise Level (Audible Sound Emissions)	IEEE C.57.12.90 - 2010 Rev.
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Acoustic Noise Level (Audible Sound Emissions)	IS 1180 (Part 1), Rev-04
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Applied Voltage	IEC 60076-3:2013+AMD1
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Applied Voltage	IEEE C.57.12.90 - 2010 Rev.
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Applied Voltage Test	IS 1180 (Part 1), Rev-04:
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Induced AC Voltage	IS 1180 (Part 1), Rev-04
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Induced Voltage Test	IEC 60076-3:2013+AMD1
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Induced Voltage Test	IEEE C.57.12.90 - 2010 Rev.
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Insulation Resistance	IEC 60076 (Part 1) Edition 3.0
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Insulation Resistance	IEEE C.57.12.90 - 2010 Rev.
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Insulation resistance	IS 1180 (Part 1), Rev-04

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19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Lightning Impulse Test	IEC 60076-3:2013+AMD1
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Up to 5 MVA, 33 Kv Class)	Lightning Impulse Test	IEEE C.57.12.90 - 2010 Rev.
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Lightning Impulse Test	IS 1180 (Part 1), Rev-04:
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Magnetic Balance	CBIP Manual Pub. No 317-2013 Amendment
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Measurement of Load Loss	IEC 60076 (Part 1) Edition 3.0
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Measurement of Load Loss	IEEE C.57.12.90 - 2010 Rev.
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Measurement of Load Loss	IS 1180 (Part 1), Rev-04:
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Polarization Index	CBIP Manual Pub. No 317
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Short Circuit Impedance	IEC 60076 (Part 1) Edition 3.0
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Short Circuit Impedance	IEEE C.57.12.90 - 2010 Rev.
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Short Circuit Impedance	IS 1180 (Part 1), Rev-04:
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Temperature Rise Test	IEC 60076 (Part 2) Edition 3.0
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Temperature Rise Test	IEEE C.57.12.90 - 2010 Rev.
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Temperature Rise Test	IS 1180 (Part 1), Rev-04:
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Voltage Ratio and check of voltage vector relationship	IEC 60076 (Part 1) Edition 3.0
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Voltage Ratio and check of voltage vector relationship	IEEE C.57.12.90 - 2010 Rev.
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Voltage Ratio and check of voltage vector relationship	IS 1180 (Part 1), Rev-04:
36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Winding Resistance	IEC 60076 (Part 1) Edition 3.0
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Winding Resistance	IEEE C.57.12.90 - 2010 Rev.

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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
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Up to 5 MVA, 33 Kv Class)	Winding Resistance	IS 1180 (Part 1), Rev-04:
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution transformers (Up to 5 MVA, 33 Kv Class)	Zero sequence Impedance	IEC 60076 (Part 1) Edition 3.0
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Distribution Transformers (Up to 5 MVA, 33 Kv Class)	Zero Sequence Impedance	IEEE C.57.12.90 - 2010 Rev.
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Others (up to 100 MVA, 132 KV Class)	Leak testing with pressure for liquid-immersed transformers (tightness test)	IEC 60076 (Part 1), Edition 3.0:
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformers (up to 100 MVA, 132 KV Class)	Determination of transient voltage transfer characteristics	IEC 60076 (Part 1) Edition 3.0
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformer (up to 100 MVA, 132 KV Class)	Determination of transient voltage transfer characteristics	IS 2026 (Part 1), Rev 02:
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & distribution Transformers (up to 100 MVA, 132 KV Class)	Capacitance- Winding to earth & between windings	IEC 60076 (Part 1) Edition 3.0
45	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformers (up to 100 MVA, 132 KV Class)	Capacitance-Winding to earth & between windings	IS 2026 (Part 1), Rev 02
46	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformers (up to 100 MVA, 132 KV Class)	Check of core and frame insulation for liquid immersed transformers with core or frame insulation	IEC 60076 (Part 1), Edition 3.0
47	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformers (up to 100 MVA, 132 KV Class)	Check of Insulation of Auxiliary wiring	IS 2026 (Part 3)- Rev-04
48	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformers (up to 100 MVA, 132 KV Class)	Check of Insulation of wiring	IEC 60076-3:2013+AMD1
49	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformers (up to 100 MVA, 132 KV Class)	Check of the ratio and polarity of built-in current transformers	IEC 60076 (Part 1), Edition 3.0:
50	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformers (up to 100 MVA, 132 KV Class)	Dissipation Factor	IEC 60076 (Part 1) Edition 3.0
51	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformers (up to 100 MVA, 132 KV Class)	Dissipation Factor	IS 2026 (Part 1), Rev 02
52	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformers (up to 100 MVA, 132 KV Class)	Harmonics of No Load Current	IS 2026 (Part 1), Rev 02
53	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformers (up to 100 MVA, 132 KV Class)	Insulation Power Factor	IEEE C.57.12.90 - 2010 Rev.
54	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformers (up to 100 MVA, 132 KV Class)	Sweep Frequency Response Analysis	IEC 60076 (Part 18) Edition 1.0
55	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution transformers (up to 100 MVA, 132 KV Class)	Test on OLTC	IEC 60076 (Part 1) Edition 3.0

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56	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power & Distribution Transformers (up to 100 MVA, 132 KV Class)	Zero Sequence Impedance	IS 2026 (Part 1), Rev 02
57	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power &Distribution Transformers (up to 100 MVA, 132 KV Class)	Test On OLTC	IS 2026 (Part 1), Rev 02
58	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer (up to 100 MVA, 132 KV Class)	No Load Current	IEC 60076 (Part 1) Edition 3.0
59	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer (up to 100 MVA, 132 KV Class)	No Load Current	IS 2026 (Part 1), Rev 02
60	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer (up to 100 MVA, 132 KV Class)	No Load Current	IEEE C.57.12.90 - 2010 Rev.
61	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer (up to 100 MVA, 132 KV Class)	No load Loss	IEC 60076 (Part 1) Edition 3.0
62	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer (up to 100 MVA, 132 KV Class)	No Load Loss	IEEE C.57.12.90 - 2010 Rev.
63	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer (up to 100 MVA, 132 KV Class)	No load Loss	IS 2026 (Part 1), Rev 02
64	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers	Voltage Ratio and check of voltage vector relationship	IEEE C.57.12.90 - 2010 Rev.
65	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers	Winding Resistance	IEC 60076 (Part 1) Edition 3.0
66	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers	Winding Resistance	IEEE C.57.12.90 - 2010 Rev.:
67	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers	Winding Resistance	IS 2026 (Part 1), Rev 02
68	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers	Zero sequence Impedance	IEC 60076 (Part 1) Edition 3.0
69	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers	Zero Sequence Impedance	IEEE C.57.12.90 - 2010 Rev.:
70	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Induced AC Voltage	IS 2026 (Part 3)- Rev-04
71	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Acoustic Noise Level (Audible Sound Emissions)	IEC 60076 (Part 10)Edition 2.0
72	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Acoustic Noise Level (Audible Sound Emissions)	IEEE C.57.12.90 - 2010 Rev.
73	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Acoustic Noise Level (Audible Sound Emissions)	IS 2026 (Part 10)
74	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Applied Voltage	IEEE C.57.12.90 - 2010 Rev.

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75	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Applied Voltage Test	IS 2026 (Part 3)- Rev-04
76	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Induced Voltage	IEC 60076-3:2013+AMD1
77	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Induced Voltage	IEEE C.57.12.90 - 2010 Rev.
78	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Insulation Resistance	IEC 60076 (Part 1) Edition 3.0
79	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Insulation resistance	IEEE C.57.12.90 - 2010 Rev.
80	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Insulation Resistance	IS 2026 (Part 1), Rev 02
81	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Lightning Impulse Test	IEC 60076-3:2013+AMD1
82	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Lightning Impulse Test	IEEE C.57.12.90 - 2010 Rev.
83	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	lightning Impulse Test	IS 2026 (Part 3)- Rev-04
84	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Load Loss	IEC 60076 (Part 1) Edition 3.0
85	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Load Loss	IEEE C.57.12.90 - 2010 Rev.
86	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power transformers (up to 100 MVA, 132 KV Class)	Load Loss	IS 2026 (Part 1), Rev 02
87	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Magnetic Balance	CBIP Manual Pub. No 317-2013 Amendment
88	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Polarization Index	CBIP Manual Pub. No 317
89	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Power taken by Fan and oil pump motors	IEC 60076 (Part 1) Edition 3.0
90	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Power taken by Fan and oil pump motors	IS 2026 (Part 1), Rev 02
91	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Short Circuit Impedance	IEC 60076 (Part 1) Edition 3.0
92	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Short Circuit Impedance	IEEE C.57.12.90 - 2010 Rev.
93	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Short Circuit Impedance	IS 2026 (Part 1), Rev 02

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94	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Switching impulse test for the line terminal (SI)	IEC 60076 (Part 3) Edition 3.1
95	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Switching impulse test for the line terminal (SI)	IS 2026 (Part 3)- Rev-04
96	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Temperature Rise Test	IEEE C.57.12.90 - 2010 Rev.
97	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Temperature Rise Test	IS 2026 (Part 2), Rev-01
98	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (up to 100 MVA, 132 KV Class)	Voltage Ratio and check of voltage vector relationship	IS 2026 (Part 1), Rev 02
99	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers(up to 100 MVA, 132 KV Class)	Applied Voltage	IEC 60076-3:2013+AMD1
100	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers(up to 100 MVA, 132 KV Class)	Temperature Rise Test	IEC 60076 (Part 2) Edition 3.0
101	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers(up to 100 MVA, 132 KV Class)	Voltage Ratio and check of voltage vector relationship	IEC 60076 (Part 1) Edition 3.0
102	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (Mineral Oil & Ester) Filled in Power & Distribution Transformers up to and including 100 MVA, 132 KV Class)	Breakdown Voltage (BDV)	IS 1866: Rev 04
103	ELECTRICAL- INSULATING MATERIALS & INSULATORS	Transformer Oil (Mineral Oil & Ester) Filled in Power & Distribution Transformers up to and including 100 MVA, 132 KV Class)	Di-Electric Test	IS 335: Rev 05