National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ECE INDUSTRIES LTD. (TRANSFORMER DIVISION), DELHI ROAD, SONIPAT, HARYANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6922 **Page No** 1 of 3

Validity 20/02/2022 to 19/02/2024 **Last Amended on** 29/03/2022

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	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of No Load Current	IS 2026 (Part 1)-
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of No Load Loss	IS 2026 (Part 1)-
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Determination of Sound Levels	IS 2026-10
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Induced AC withstand Voltage test	IS 2026 (Part 3)
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Lighting Impulse Voltage withstand test with Chopped on tail	IS 2026 (Part 3)
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Magnetic Balance Test on 3F Transformer	CBIP Manual
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Magnetic Circuit (Isolation) Test	IS 2026 (Part 3)
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Load Loss	IS 2026 (Part 1)
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Capacitance	IS 2026-1
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Dissipation Factor	IS 2026-1
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Harmonics of the No Load Current	IS 2026-1
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Insulation Resistance & Polarization Index	IS 2026 (Part 1)
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Magnetizing Current at Low Voltage	CBIP Manual
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Power Taken by Fans & Oil Pump Motors	IS 2026-1
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Short Circuit Impedance	IS 2026 (Part 1)-
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Separate Source AC Withstand Voltage Test (Applied Potential Test)	IS 2026 (Part 3)
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Temperature - Rise	IS 2026-2

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18	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Tests on (ON - LOAD) TAP - Changer	IS 2026 (Part 1)
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	(Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Verification of Vector Group & Check of Phase Displacement	IS 2026 (Part 1)
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Induced AC withstand Voltage test	IEC 60076 (Part 3)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Lighting Impulse Voltage withstand test with Chopped on tail	IEC 60076 (Part 3)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Magnetic Balance Test on 3F Transformer	CBIP Manual
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Magnetic Circuit (Isolation) Test	IEC 60076 (Part 3)
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Capacitance	IEC 60076-1
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Dissipation Factor	IEC 60076-1
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Load Loss	IEC 60076 (Part 1)
27	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Magnetizing Current at Low Voltage	CBIP Manual
28	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of No Load Current	IEC 60076 (Part 1)
29	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of No Load Loss	IEC 60076 (Part 1)
30	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Power Taken by Fans & Oil Pump Motors	IEC 60076-1
31	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Short Circuit Impedance	IEC 60076 (Part 1)
32	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Zero Phase Sequence Impedance(s) on 3F Transformer	IEC 60076-1
33	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Separate Source AC Withstand Voltage Test (Applied Potential Test)	IEC 60076 (Part 3)
34	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Tests on (ON - LOAD) TAP - Changer	IEC 60076 (Part 1)
35	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Verification of Vector Group & Check of Phase Displacement	IEC 60076 (Part 1)

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36	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Determination of Sound Levels	IEC 60076-10
37	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Harmonics of the No Load Current	CBIP Manual-317,IEC 60076(Part 1)
38	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Insulation Resistance & Polarization Index	CBIP Manual-317, IEC 60076 (Part 1)
39	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Voltage Ratio & Polarity Checks	IEC 60076 (Part 1)
40	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Winding Resistance HV	IEC 60076 (Part 1)
41	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformers (Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Temperature - Rise	IEC 60076-2
42	ELECTRICAL- INDUCTORS & TRANSFORMERS	Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Voltage Ratio & Polarity Checks	IS 2026 (Part 1)-
43	ELECTRICAL- INDUCTORS & TRANSFORMERS	Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Winding Resistance	IS 2026 (Part 1)
44	ELECTRICAL- INDUCTORS & TRANSFORMERS	Single & Three Phase) All Transformers Up to 50 MVA, 132 kV	Measurement of Zero Phase Sequence Impedance(s) on 3F Transformer	IS 2026-1