National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TRANSFORMER TESTING LABORATORY, VISHVAS POWER ENGINEERING SERVICES PRIVATE LIMITED, PLOT NO. K-5, FIVE STAR INDUSTRIAL AREA, MIDC, BUTIBORI, NAGPUR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-11611 **Page No** 1 of 2

Validity 03/05/2023 to 02/05/2025 **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	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Zero Sequence Impedance Voltage	IS 2026 (Part 1, Clause No. 10.7)
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Capacitance	IS 2026 (Part 1, Clause No. 10.1.3.j)
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Dissipation Factor (Tan delta) of Winding	IS 2026 (Part 1, Clause No. 10.1.3.j)
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Harmonics of the No Load Current	IS 2026 (Part 1, Clause No.10.6), CBIP Manual Publication No. 317 (Section BB 3.12)
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Induced AC voltage test with partial discharge (PD)	IS 2026 (Part 3, Clause No. 11.3)
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Insulation Resistance	IS 2026 (Part 1, Clause No. 10.1.3.j)
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Lightning Impulse Test	IS 2026 (Part 3, Clause No. 13), IS 2071 (Part 1, Clause No. 7)
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Magnetic Balance on 3 Phase Transformer	CBIP Manual Publication No. 317 (Section BB 3.17)
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Measurement of Frequency Response (FRA)	IS 2026 (Part 18)
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Measurement of Winding Resistance	IS 2026 (Part 1, Clause No. 10.2)
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	No Load Current at 100%	IS 2026 (Part 1, Clause No. 10.5)
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	No Load Current at 110%	IS 2026 (Part 1, Clause No. 10.5)
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	No Load Current at 90%	IS 2026 (Part 1, Clause No. 10.5)
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	No Load Loss	IS 2026 (Part 1, Clause No.10.5)
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	No Load Loss Current	IS 2026 (Part 1, Clause No. 10.5)
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Polarization Index (10/1 Minutes)	IS 2026 (Part 1, Clause No. 10.1.3.j)
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Separate Source AC Withstand Voltage Test/ Applied Voltage Test	IS 2026 (Part 3, Clause No.10)

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18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Short Circuit Current on Load Loss Test	IS 2026 (Part 1, Clause No. 10.4)
19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Short Circuit Load Loss Test	IS 2026 (Part 1, Clause No. 10.4)
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Temperature-Rise Test	IS 2026 (Part 2)
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Tests on On-Load Tap-Changers	IS 2026 (Part 1, Clause No. 10.8)
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Voltage Ratio	IS 2026 (Part 1, Clause No. 10.3)
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Voltage Vector Relationship	IS 2026 (Part 1, Clause No. 10.3)
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Power Transformer above 2.5MVA to 160MVA 1/3 Phase 220 kV Class	Zero Sequence Impedance Current	IS 2026 (Part 1, Clause No. 10.7)