National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	MAHATI ELECTRICAL TESTING LABORATORY (UNIT OF MAHATI INDUSTRIES PVT. LTD.), GAT NO 233 & 175-2, NH-9,PUNE-SOLAPUR ROAD, A/P YEWAT, TAL.DAUND, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-7560	**Page No**	1 of 2
Validity	12/07/2021 to 11/07/2023	**Last Amended on**	22/09/2021

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	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Bushing C.T. Test	IS 2705 (Part- 4) (withdrawn), IEC 60044 - I (withdrawn)
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Die electric strength of Transformer oil (Oil BDV)	CBIP Pub - 317 Cl. 3.25.1
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Induced over voltage withstand test	IS 2026 (Part 3) cl.11.2 /11.3, IEC 60076 (Part 3) Cl. 11.
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Lightning Impulse test	IS 2026 (Part 3) cl.13, IEC 60076 (Part 3) Cl. 13.
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Magnetic Balance at 230 volts single phase.	CBIP Pub - 317 cl 3.5.1
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Measurement of Capacitance & Tan-delta	IS 2026 (Part 1) cl.10.1.3j, IEC 60076 (Part 1) Cl. 11.1.4
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Measurement of Acoustic noise level	IS 2026 (Part 10), IEC 60076 (Part 10)
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Measurement of Harmonics of No Load	IS 2026 (Part 1) cl.10.6, IEC 60076 (Part 1)Cl. 11.6
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Measurement of Insulation resistance & polarization index	IS 2026 (Part 1) cl.10.1.1.3 , IEC 60076 (Part 1) Cl. 11.1.2
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Measurement of Load Loss & % impedance.	IS 2026 (Part 1),cl.10.4 , IEC 60076 (Part 1) Cl. 11.4
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Measurement of low voltage testing	CBIP Pub - 317, cl 3.9.f (Low voltage measurement of current for site reference.
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Measurement of No load loss & current	IS 2026 (Part 1) cl.10.5 , IEC 60076 (Part 1) Cl. 11.5
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Measurement of Power taken by the fans & pumps	IS 2026 (Part 1), cl.10.3.h. IEC 60076 (Part 1) Cl. 11.1.3.
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Measurement of Sweep Frequency Response Analysis	CBIP Pub - 317 Cl:3.22 IEC 60076 (Part 18).
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Measurement of Voltage ratio & check vector group	IS 2026 (Part 1), cl.10.3, IEC 60076 (Part 1) Cl. 11.3
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Measurement of winding resistance	IS 2026 (Part 1),cl.10.6, IEC 60076 (Part 1) Cl. 11.6
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Measurement of Zero sequence Impedance.	IS 2026 (Part 1),cl.10.7, IEC 60076 (Part 1) Cl. 11.8
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Oil leakage test	CBIP Pub - 317

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19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Separate source voltage with stand test.	IS 2026 (Part 3), cl.10, 12, IEC 60076 (Part 3) Cl. 10 .
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Switching Impulse test	IS 2026 (Part 3), cl.14, IEC 60076 (Part 3) Cl. 13
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Temperature rise test, Measurement of load loss & impedance voltage test	IS 2026 (Part 2) cl. 5, IEC 60076 (Part 2) Cl. 7.
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Transformers (100KVA to 50MVA, 11KV to 245KV, 3 Phase & Upto 105MVA, 400KV, Single Phase)	Testing on On Load Tap Changer	IS 2026 (Part 1) cl.10.1.1, IEC 60076 (Part 1) Cl. 11.1.2