National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TECHNO ASSOCIATES VIDYUT PRIVATE LIMITED, W-160, MIDC PHASE II, DOMBIVLI, THANE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-10553 **Page No** 1 of 2

Validity 23/04/2022 to 22/04/2024 **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	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Accuracy test	IS 16227 (Part-2)
2	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Capacitance and Dissipation factor	IEC 61869-1, Clause 7.4.3
3	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Composite error test	IS 16277 (Part 2); IEC 61689-2, Annex 2A, 2A-4 & 2A-5
4	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Determination of Secondary Winding Resistance	IS 16227 (Part-2)
5	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Enclosure Tightness test at ambient temperature	IS 16227 (Part-1)
6	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Instrument Security Factor	IS 16227 (PART-2); IEC 61689-2, Clause 7.26.202
7	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Inter-turn Overvoltage test	IS 16227 (Part-2)
8	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Inter-turn Overvoltage test	IS 16227 (Part-2); IEC 61869-2 Clause 7.3.204
9	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Partial Discharge	IS 16227 (Part-1); IEC 61869-1 Clause 7.3.2
10	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Power frequency dry withstand on primary terminals	IS 16227 (Part-2)
11	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Power Frequency dry withstand on Secondary terminals	IS 16227 (Part-2)
12	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Power frequency dry withstand on Secondary terminals	IS 16227 (Part-2); IEC 61869-2:2012 Clause 7.3.4
13	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Power frequency Voltage withstand test between sections	IS 16227 (Part-2)
14	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Rated Knee point e.m.f. and Exciting Current	IS 16227 (Part-2)
15	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Temperature Rise	IS 16227 (Part-3), Clause 9.5; IEC 61869-3, Clause 7.2.2
16	ELECTRICAL- INDUCTORS & TRANSFORMERS	Current Transformer 6.6 kV to 145 kV Class, 1A to 3000A	Verification of Marking & Polarity	IS 16227 (Part-1)
17	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer 6.6 kV to 145 kV Class	Accuracy	IS 16227 (Part -3); IEC 61869-3 Clause 7.3.5
18	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer 6.6 kV to 145 kV Class	Capacitance and Dissipation factor	IEC 61869-1 Clause 7.4.3

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19	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer 6.6 kV to 145 kV Class	Enclosure Tightness test at ambient temperature	IS 16227 (Part -3); IEC 61869-3 Clause 7.3.7
20	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer 6.6 kV to 145 kV Class	Power Frequency Dry Withstand on Secondary Terminals	IS 16227 (Part -3); IEC 61869-3 Clause 7.3.4
21	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer 6.6 kV to 145 kV Class	Power Frequency Voltage Withstand test between sections	IS 16227 (Part -3); IEC 61869-3 Clause 7.3.3
22	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer 6.6 kV to 145 kV Class	Power-Frequency Withstand on primary windings (Induced)	IS 16227 (Part -3), Clause 9.3.1.2, 9.3.2.2; IEC 61869-3, Clause 7.3.1.303
23	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer 6.6 kV to 145 kV Class	Power-Frequency Withstand tests on primary terminals	IS 16227 (Part -3); IEC 61869-3 Clause 7.3.1
24	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer 6.6 kV to 145 kV Class	Temperature Rise	IS 16227 (Part -3), Clause 9.5; IEC 61869-3, Clause 7.2.2
25	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer 6.6 kV to 145 kV Class	Verification of Marking & Polarity	IS 16227 (Part -3); IEC 61869-3, Clause 7.3.6
26	ELECTRICAL- INDUCTORS & TRANSFORMERS	Voltage Transformer 66 kV Class	Partial Discharge	IS 16227 (Part -3); IEC 61869-3, Clause 7.3.2