National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : HI-TECH TEST LAB, MVVNL, GOMTI NAGAR, VIPIN KHAND, LUCKNOW, UTTAR PRADESH, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-8925 **Page No** 1 of 3

Validity 08/07/2022 to 07/07/2024 **Last Amended on** 18/10/2022

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- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Electrical and Electronic (Static) Energy meters & Tariff and Load Control Equipment & Electrical / Electronic Equipment	Insulation resistance test	IS 13779 (Cl. 12.7.6.4)
2	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meter (Accuracy class 1 & 2)	Insulation resistance test	IS 13779 (Cl.12.7.6.4)
3	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meter (Accuracy class 1 & 2)	Test of Starting condition	IS 13779 (Cl.12.14)
4	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meter (Accuracy class 1 & 2)	Test of Meter constant	IS 13779 (Cl.12.15, 11.6)
5	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meters (Accuracy class 0.2s and 0.5s)	AC High Voltage Test	IS 14697 (Cl.12.7.6.3)
6	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meters (Accuracy class 0.2s and 0.5s)	Insulation resistance test	IS 14697 (Cl.12.7.6.4)
7	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meters (Accuracy class 0.2s and 0.5s)	Repeatability of error test	IS 14697 (Cl.12.16)
8	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meters (Accuracy class 0.2s and 0.5s)	Test of Meter constant	IS 14697 (Cl.12.14)
9	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meters (Accuracy class 0.2s and 0.5s)	Test of Starting condition	IS 14697 (Cl.12.13)
10	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meters (Accuracy class 0.2s and 0.5s)	Test on limits of error	IS 14697 (Cl.11.1)

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11	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Accuracy class 0.2s and 0.5s)	Waveform: 10% of 3rd harmonics in the current	IS 14697 (Cl.11.2, Table 13, note 2)
12	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meters (Accuracy class 0.2s and 0.5s.)	Limits of Error Due to Other Influence Quantities: Voltage variation (Note1) ± 10%, Frequency variation ± 5%	IS 14697 (Cl.11.2, Table 13)
13	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meters (Accuracy class 0.2s and 0.5s.)	Test of power consumption	IS 14697 (Cl.12.7.1)
14	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Accuracy class 1 & 2)	AC High Voltage Test	IS 13779 (Cl.12.7.6.3)
15	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meters (Accuracy class 1 & 2)	Limits of Error Due to Other Influence Quantities: i) Voltage variation ± 10 percent (note1), ii) Frequency variation ± 5 percent	IS 13779 (Cl.11.2, Table 17)
16	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meters (Accuracy class 1 & 2)	Repeatability of error test	IS 13779 (Cl.12.17)
17	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meters (Accuracy class 1 & 2)	Test of No-Load Condition	IS 13779 (Cl.12.13)
18	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters (Accuracy class 1 & 2)	Test on limits of error	IS 13779 (Cl.11.1)
19	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meters (Accuracy class 1 & 2)	Test of Power Consumption	IS 13779 (Cl.12.7.1)
20	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meters(Accuracy class 0.2s and 0.5s)	Test of No -Load condition	IS 14697 (Cl.12.12)

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21	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy Meters(Accuracy class 1 & 2)	DC component in ac current circuit (note 5)	IS 13779 (Cl.11.2, Table 17)
22	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Energy meters(Accuracy class 1 & 2)	Waveform: 10% of 3rd harmonics in the current	IS13779 (Cl.11.2, Table 17, note 2)