

Laboratory **MGVCL, Hi-Tech Laboratory, Vidyutnagar S/S Compound, Old Padra Road, Vadodara, Gujarat**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-5952 (in lieu of T-1296)** Page 1 of 2

Validity **04.09.2017 to 03.09.2019** Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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ELECTRICAL TESTING

I	MEASURING INSTRUMENTS-ELECTRICAL AND ELECTRONIC (STATIC) ENERGY METERS			
1	AC Static Watt hour Meters, Class 1 & 2 AC Static Transformer Operated Watt hour and VAR-hour Meters, Class 0.2 s and 0.5 s	Insulation Test	IS 14697 IS 13779	Upto 1000 MΩ Test Voltage: Upto 1000 V DC
		Test on Limits of Errors	IS 14697 IS 13779	45 V to 300 V 0.01 A to 120 A 47.5 Hz to 52.5 Hz
		Test of Meter Constant / Registration	IS 14697 IS 13779	45 V to 300 V 0.01 A to 120 A 47.5 Hz to 52.5 Hz
		Test of No Load Condition / Running with No load / Start up	IS 14697 IS 13779	45 V to 300 V
		Test of Starting Condition	IS 14697 IS 13779	45 V to 300 V 0.01 A to 120 A 47.5 Hz to 52.5 Hz
		Test of Repeatability of Error	IS 14697 IS 13779	45 V to 300 V 0.01 A to 120 A 47.5 Hz to 52.5 Hz
		Test of Influence Quantities: Voltage Variation (±)10 % Frequency Variation (±)5 % Reverse Phase Sequence Wave form : 10 % of 3 rd harmonic in the current Voltage Unbalance	IS 14697 IS 13779	45 V to 300 V 0.01 A to 120 A 47.5 Hz to 52.5 Hz
		Test of Power Consumption / Power Loss	IS 14697 IS 13779	0.1 VA to 10 VA Per Phase 1 W to 2 W Per Phase

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		Influence of Self Heating	IS 14697 IS 13779	45 V to 300 V 0.01 A to 120 A 47.5 Hz to 52.5 Hz
		Accuracy test in the presence of harmonics in Voltage and Current circuits	Clause No. 8.2.1 of IEC 62053-22	45 V to 300 V 0.01 A to 120 A 47.5 Hz to 52.5 Hz
		Test of High Voltage	IS 14697 IS 13779	0.5 kV to 5 kV

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