

Laboratory	MGVCL, Hi-Tech Laboratory, Vidyutnagar S/S Compound, Old Padra Road, Vadodara, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electrical Testing	Issue Date	04.09.2015
Certificate Number	T-1296	Valid Until	03.09.2017
Last Amended on	11.09.2015	Page	1 of 2

S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	MEASURING INSTRUMENTS-ELECTRICAL AND ELECTRONIC (STATIC) ENERGY METERS			
1.	AC Static Watt hour Meters, Class 1 & 2 AC Static Transformer Operated Watthour and VAR-hour Meters, Class 0.2 S and 0.5	Insulation Test	IS 14697: 1999 Amd. 3 Clause. 12.7.6.4 & Clause. 12.7.6.4.of IS 13779: 1999 Amd. 4	1 MΩ to 2000 MΩ Test Voltage: 500 V DC
		Test on Limits of Errors	IS 14697: 1999 Clause 11.1 Amd. 3 & IS 13779: 1999 Amd. 4 Clause 11.11	45 V to 290 V 0.01 A to 120 A 47.5 Hz to 52.5 Hz 1 W to 34.8 kW 1 Wh to 34.8 kWh and above
		Test of Meter Constant	IS 14697: 1999 Amd. 3 Clause 12.14 & IS 13779: 1999 Amd. 4 Clause 12.15	45 V to 290 V 0.01 A to 120 A 47.5 Hz to 52.5 Hz
		Test of No Load Condition	IS 14697: 1999 Amd. 3 Clause 12.12 & IS 13779: 1999 Amd. 4 Clause 12.13	45 V to 290 V
		Test of Starting Condition	IS 14697: 1999 Amd. 3 Clause 12.13 & IS 13779: 1999 Amd. 4 Clause 12.14	45 V to 290 V 0.01 A to 120 A 47.5 Hz to 52.5 Hz
		Test of Repeatability of Error	IS 14697: 1999 with Amd. 3 Clause 12.16 & IS 13779: 1999 with Amd. 4 Clause 12.17	45 V to 290 V 0.01 A to 120 A 47.5 Hz to 52.5 Hz

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	AC Static Watt hour Meters, Class 1 & 2 AC Static Transformer Operated Watthour and VAR-hour Meters, Class 0.2 S and 0.5	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: 1999 Amd. 3 Clause 12.10 & IS 13779: 1999 Amd. 4 Clause 12.11	45 V to 290 V 0.01 A to 120 A 47.5 Hz to 52.5 Hz
		Test of Power Consumption	IS 14697: 1999 with Amd. 3 Clause 12.7.1 & IS 13779: 1999 & with Amd. 4 Clause 12.7.1	0.1 VA to 10 VA Per Phase 1 W to 2 W Per Phase
		Influence of Self Heating	IS 14697: 1999 with Amd: 3 Clause 12.7.4 IS 13779: 1999 with Amd: 4 Clause 12.7.4	45 V to 290 V 0.01A to 120A 47.5Hz to 52.5 Hz
		Test of AC High Voltage	IS 14697: 1999 with Amd : 3 Clause 12.7.6.3 IS 13779: 1999 with Amd: 4 Clause 12.7.6.3	0.5 kV to 5 kV

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