

Laboratory	PGVCL Meter Hi-Tech Laboratory, Paschim Gujarat Vij Company Limited, Dudhsagar Road, New Power House Compound, Rajkot, Gujarat		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electrical Testing	Issue Date	21.07.2015
Certificate Number	T-2597	Valid Until	20.07.2017
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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 ELECTRONICS (STATIC) ENERGY METERS			
1.	ac Static Watt-Hour Meters, ac Static Transformer Operated Watt-Hour & VAR-Hour Meters	Initial Startup of the Meter	IS 14697: 1999 Cl no. 11.4.1 IS 13779: 1999 Cl no. 11.4.1	40 V to 300 V
		Insulation Resistance Test	IS 14697: 1999 Cl no. 12.7.6.4 IS 13779: 1999 Cl no. 12.7.6.4	0.1 MΩ to 4 GΩ
		no load Condition /Running with no load	IS 14697: 1999 Cl no. 12.12 IS 13779: 1999 Cl no. 12.13	40 V to 300 V
		Starting Condition/ Starting	IS 14697: 1999 Cl no. 11.5 IS 13779: 1999 Cl no. 11.5	40 V to 300 V 1 mA to 100m A
		Meter Constant/ Registration	IS 14697: 1999 Cl no. 11.6 IS 13779: 1999 Cl no. 11.6	40 V to 300 V 10 mA to 120 A 50Hz
		Limits of Errors	IS 14697: 1999 Cl no. 11.1 IS 13779: 1999 Cl no. 11.1	40 V to 300 V 10 mA to 120 A 50 Hz 0.25 Lag-UPF-0.5 Lead
		Repeatability of errors	IS 14697: 1999 Cl no. 11.7 IS 13779: 1999 Cl no. 11.7	40 V to 300 V 10 mA to 120 A 50Hz
	Limits of Error Due to Other Influence Quantities (Voltage-Variation, Frequency Variation, Phase-Sequence, Wave Form, Voltage-Unbalance)	IS 14697: 1999 Cl no. 11.2 IS 13779: 1999 Cl no. 11.2	40 V to 300 V 10 mA to 120 A 47.5 Hz to 52.5 Hz Up to 21 st Harmonics with < 1% (10% to 40% variation)	

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	ac Static Watt-Hour Meters, ac Static Transformer Operated Watt-Hour & VAR-Hour Meters	Test of Power Consumption / Power loss test	IS 14697: 1999 Cl no. 9.1 IS 13779: 1999 Cl no. 9.1	0.04 VA to 10VA per Phase 0.04W to 10W per Phase
		AC Voltage test	IS 14697: 1999 Cl no. 12.7.6.3 IS 13779: 1999 Cl no. 12.7.6.3	0.5 kV to 5 kV

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