

Laboratory	Testing & Calibration Laboratory, HPL Electric & Power Limited, Plot No. 357 Q, Sector-37, Pace City II, Gurgaon, Haryana		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electrical Testing	Issue Date	23.11.2016
Certificate Number	T-2932	Valid Until	21.04.2018
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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
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AT LABORATORY

I. MEASURING INSTRUMENTS - ELECTRICAL AND ELECTRONIC (STATIC) ENERGY METERS

1. Electrical Energy Meter	AC High Voltage Test	IS 13779: 1999 Amd. 1 to 5 IS 14697: 1999 Amd. 1 to 4 IS 15884: 2010	Upto 5 kV
	Insulation Resistance Test	IS 13779: 1999 Amd. 1 to 5 IS 14697: 1999 Amd. 1 to 4 IS 15884: 2010	Test upto 100 MΩ, Test Voltage : 500 Vdc
	Test of Limit of Error	IS 13779: 1999 Amd. 1 to 5 IS 14697: 1999 Amd. 1 to 4 IS 15884: 2010	Voltage: 40 V to 300 V Current: 10 mA to 120 A Frequency: 50 Hz CosØ / SinØ= ± 0.5 to 1
	Meter Constant Test	IS 13779: 1999 Amd. 1 to 5 IS 14697: 1999 Amd. 1 to 4 IS 15884: 2010	Voltage: 40 V to 300 V Current: 10 mA to 120 A Frequency : 50 Hz CosØ / SinØ= ± 0.5 to 1
	Starting Condition Test	IS 13779: 1999 Amd. 1 to 5 IS 14697: 1999 Amd. 1 to 4 IS 15884: 2010	Voltage: 40 V to 300 V Current: 1 mA to 120A Frequency : 50 Hz CosØ /SinØ= (±) 0.5 to 1
	No Load Condition Test	IS 13779: 1999 Amd. 1 to 5 IS 14697: 1999 Amd. 1 to 4 IS 15884: 2010	Upto 520 V AC phase to phase / 300 V AC phase to neutral
	Repeatability of errors test	IS 13779: 1999 Amd. 1 to 5 IS 14697: 1999 Amd. 1 to 4 IS 15884: 2010	Voltage: 40 V to 300 V Current: 10 mA to 120 A Frequency : 50 Hz CosØ /SinØ= (±) 0.5 to 1
	Test of power consumption	IS 13779: 1999 Amd. 1 to 5 IS 14697: 1999 Amd. 1 to 4 IS 15884: 2010	0.063 W to 6.35 kW 0.06 VA to 50 VA

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AT SITE

I. MEASURING INSTRUMENTS - ELECTRICAL AND ELECTRONIC (STATIC) ENERGY METERS

1.	Electrical Energy Meter	Test of Limit of Error	IS 13779: 1999 Amd. 1 to 5 IS 14697: 1999 Amd. 1 to 4 (For LT Meters only) IS 15884: 2010	Voltage: 100 V to 300V Current: 10 mA to 120A Frequency : 50 Hz CosØ SinØ= (±) 0.5 to 1
		Meter Constant Test	IS 13779: 1999 Amd. 1 to 5 IS 14697: 1999 Amd. 1 to 4 (For LT Meters only) IS 15884: 2010	Voltage: 100 V to 300V Current: 10 mA to 120 A Frequency : 50 Hz CosØ SinØ= (±) 0.5 to 1
		Starting Condition Test	IS 13779: 1999 Amd. 1 to 5 IS 14697: 1999 Amd. 1 to 4 (For LT Meters only) IS 15884: 2010	Voltage: 100 V to 300 V Current: 1 mA to 120 A Frequency : 50 Hz CosØ /SinØ= (±) 0.5 to 1
		No Load Condition Test	IS 13779: 1999 Amd. 1 to 5 IS 14697: 1999 Amd. 1 to 4 (For LT Meters only) IS 15884: 2010	Voltage: 100 V to 520 V AC phase to phase / 100 V to 300 V AC phase to neutral
		Repeatability of errors test	IS 13779: 1999 Amd. 1 to 5 IS 14697: 1999 Amd. 1 to 4 (For LT Meters only) IS 15884: 2010	Voltage: 100 V to 300 V Current: 10 mA to 120 A Frequency : 50 Hz CosØ /SinØ= (±) 0.5 to 1

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