

Laboratory Testing & Calibration Laboratory, HPL Electric & Power Limited,
Plot No. 357 Q, Sector-37, Pace City II, Gurugram, Haryana

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7170 (in lieu of T-2932) **Page 1 of 2**

Validity 22.04.2018 to 21.04.2020 **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 INSTRUMENT: ELECTRICAL & ELECTRONICS (STATIC) ENERGY METERS			
1.	Electrical Energy Meter	AC High Voltage Test	IS 13779:1999 Amend. 1 to 5 IS 14697:1999 Amend. 1 to 4 IS 15884:2010	Upto 5 kV
		Insulation Resistance Test	IS 13779:1999 Amend. 1 to 5 IS 14697:1999 Amend. 1 to 4 IS 15884:2010	Test Upto 100MΩ, Test Voltage: 500V DC ±50V
		Test of Limits of Error	IS 13779:1999 Amend. 1 to 5 IS 14697:1999 Amend. 1 to 4 IS 15884:2010	Voltage: 40V to 300V Current: 10mA to 120A Frequency: 50Hz CosØ/SinØ = ±0.5 to 1
		Meter Constant Test	IS 13779:1999 Amend. 1 to 5 IS 14697:1999 Amend. 1 to 4 IS 15884:2010	Voltage: 40V to 300V Current: 10mA to 120A Frequency: 50Hz CosØ/SinØ = ±0.5 to 1
		Starting Condition Test	IS 13779:1999 Amend. 1 to 5 IS 14697:1999 Amend. 1 to 4 IS 15884:2010	Voltage: 40V to 300V Current: 1mA to 120A Frequency: 50Hz CosØ/SinØ = ±0.5 to 1
		No Load Condition Test	IS 13779:1999 Amend. 1 to 5 IS 14697:1999 Amend. 1 to 4 IS 15884:2010	Upto 520V AC phase to phase / 300V AC phase to neutral
		Repeatability of Error Test	IS 13779:1999 Amend. 1 to 5 IS 14697:1999 Amend. 1 to 4 IS 15884:2010	Voltage: 40V to 300V Current: 10mA to 120A Frequency: 50Hz CosØ/SinØ = ±0.5 to 1
		Test of Power Consumption	IS 13779:1999 Amend. 1 to 5 IS 14697:1999 Amend. 1 to 4 IS 15884:2010	Voltage Circuit: 0.063W to 6.35KW Current Circuit: 0.06VA to 50VA

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
AT SITE				
I. MEASURING INSTRUMENT: ELECTRICAL & ELECTRONICS (STATIC) ENERGY METERS				
1.	Electrical Energy Meter	Test of Limits of Error	IS 13779:1999 Amend. 1 to 5 IS 14697:1999 Amend. 1 to 4 (For LT Meters only) IS 15884:2010	Voltage: 100V to 300V Current: 10mA to 120A Frequency: 50Hz CosØ/SinØ = ±0.5 to 1
		Meter Constant Test	IS 13779:1999 Amend. 1 to 5 IS 14697:1999 Amend. 1 to 4 (For LT Meters only) IS 15884:2010	Voltage: 100V to 300V Current: 10mA to 120A Frequency: 50Hz CosØ/SinØ = ±0.5 to 1
		Starting Condition Test	IS 13779:1999 Amend. 1 to 5 IS 14697:1999 Amend. 1 to 4 (For LT Meters only) IS 15884:2010	Voltage: 100V to 300V Current: 1mA to 120A Frequency: 50Hz CosØ/SinØ = ±0.5 to 1
		No Load Condition Test	IS 13779:1999 Amend. 1 to 5 IS 14697:1999 Amend. 1 to 4 (For LT Meters only) IS 15884:2010	Upto 100V to 520V AC phase to phase / 100V to 300V AC phase to neutral
		Repeatability of Error Test	IS 13779:1999 Amend. 1 to 5 IS 14697:1999 Amend. 1 to 4 (For LT Meters only) IS 15884:2010	Voltage: 100V to 300V Current: 10mA to 120A Frequency: 50Hz CosØ/SinØ = ±0.5 to 1