Laboratory	**Meter Testing Laboratory, Torrent Power Limited, Naranpura Zonal Office Premises, Sola Road, Ahmedabad, Gujarat**
Accreditation Standard	**ISO/IEC 17025: 2005**
Certificate Number	**TC-7157** ***(in lieu of T-1076)*** **Page 1 of 2**
Validity	**25.05.2018 to 24.05.2020** **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
		ELECTRICAL TESTING		
I.	**MEASURING INSTRUMENTS-ELECTRICAL AND ELECTRONIC (STATIC) ENERGY METERS**			
1.	**Electro Mechanical and Electronic (Static) Energy Meters (Class 0.2S, 0.2, 0.5S, 0.5, 1.0S, 1.0, 2.0, 3.0)**	Limits of Errors	CBIP-325 (January 2015)	AC Active / Reactive Energy Single Phase 2W, 3 Phase 4W, 3 Phase 3W 40 V to 300 V 1 mA to 120 A 45 Hz to 55 Hz Cos Ø / Sin Ø = 1 to 0.25 Inductance and 0.5 Capacitance
		Meter constant	IS 13779-1999 (RA 2014) (Amd. 1-5)	
		Starting condition	IS 13010-2002 (RA 2007) (Amd. 1-2)	
		Effect of self heating	IS 14697-1999 (RA 2014)	
		Influence quantities	Edition 1.3 (2004-12)) (Amd. 1-4) Dec.2014	
		Voltage variation	IEC 62052-11 (2003)	
		Frequency variation	IEC 62053-21 (2003)	
		Reverse phase Sequence	IEC 62053-22 (2003)	
		Voltage unbalance	IEC 62053-23 (2003)	
		Power consumption		Single Phase 2W, 3 Phase 4W, 3 Phase 3W 40 V to 300 V 1 mA to 120 A
		No Load Condition Start up tests of Energy meter		AC Voltage 10 V to 300 V
		Influence quantities Waveform Repeatability of Errors	CBIP-325 (January 2015) IS 13779-1999 (RA 2014) (Amd. 1-5) IS 13010-2002 (RA 2007) (Amd. 1-2) IS 14697-1999 (RA 2014), Edition 1.3 (2004-12)) (Amd. 1-4) Dec.2014	AC Active / Reactive Energy Single Phase 2W, 3 Phase 4W, 3 Phase 3W 40 V to 300 V 1 mA to 120 A 45Hz to 55Hz Cos Ø / Sin Ø = 1 to 0.25 Inductance and 0.5 Capacitance

Neeraj Verma
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Program Director

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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
		Insulation Resistance Test		Test Voltage: 500 V DC, Test up to 50 MΩ
2.	**Current Transformers 0.1, 0.2S, 0.2, 0.5S, 0.5, 1, 3 & 5**	Limits of Errors	IS 2705-1992 (Part-2) (RA 2017)	
		Ratio Error	Primary	0.05 A to 2400 A
		Phase Error	Secondary	1 A & 5 A

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