Laboratory	**Electrical Research and Development Association, Plot No. 57A, APIIC, Auto Nagar, Rajahmundry, East Godavari District, Andhra Pradesh**		
Accreditation Standard	**ISO/IEC 17025:2005**		
Discipline	**Electro-Technical Calibration**	**Issue Date**	**24.09.2015**
Certificate Number	**C-1272**	**Valid Until**	**23.09.2017**
Last Amended on	**-**	**Page**	**1 of 1**

	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
	MEASURE			
1.	**AC ENERGY#** **1Ø (2 Wire)** **Active Energy**	**47.5 Hz to 52.5 Hz** 55 V to 290 V 0.25 PF UPF – 0.25 PF Lead/Lag 10 mA to 100 mA 100 mA to 120 A	 0.13 % to 0.05 % 0.05 % to 0.087 %	Using Three Phase Power Energy Portable Reference Standard By Comparison Method
2.	**AC ENERGY#** **3 Ø** **Active Energy &** **Reactive Energy**	**47.5 Hz to 52.5 Hz** 55 V to 290 V 0.25 PF UPF – 0.25 PF Lead/Lag 10 mA to 120 A	0.13 % to 0.073 %	
3.	**VOLTAGE#**	**50 Hz** 50 V to 400 V	0.1 %	
4.	**CURRENT#**	**50 Hz** 10 mA to 120 A	0.34 %	Using Three Phase Power Energy Portable Reference Standard by Comparison Method
5.	**POWER FACTOR#**	**50 Hz** 0.25 PF-UPF-0.25 PF	0.01 PF	
6.	**FREQUENCY#**	45 Hz to 55 Hz	0.08 %	

*** Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%**

 # The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

Ranjith Kumar
Convenor

Avijit Das
Program Manager