

**Laboratory** Hi-Tech Meter Testing Laboratory, Naka Madar, AVVNL, Ajmer, Rajasthan  
**Accreditation Standard** ISO/IEC 17025: 2005  
**Certificate Number** CC-2504 (in lieu of C-1308) **Page** 1 of 1  
**Validity** 06.01.2018 to 05.01.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>ELECTRO-TECHNICAL CALIBRATION</u></b>				
<b>1.</b>	<b>MEASURE</b>			
1.	AC Energy & AC Power (For Single phase & Three Phase) Active & Reactive Energy <sup>§</sup>	45 V to 300 V 0.5 Lag UPF 0.8 Lead 5mA $\leq$ I $\leq$ 10mA 10mA < I $\leq$ 100A 50Hz	0.10 % 0.052 %	Using 3 $\Phi$ Power/Energy Meter(ZERA EPZ-303-5) & MTS 320 Bench By Comparison Method
2.	AC Voltage <sup>§</sup>	<b>50 Hz</b> 45 V to 300 V	0.03 %	Using 3 $\Phi$ Power/Energy Meter(ZERA EPZ-303-5) & MTS 320 Bench By Comparison Method
3.	AC Current <sup>§</sup>	<b>50 Hz</b> 5 mA to 100 A	0.09 % to 0.03 %	Using 3 $\Phi$ Power/Energy Meter(ZERA EPZ-303-5) & MTS 320 Bench By Comparison Method
4.	Frequency <sup>§</sup>	47.5 Hz to 52.5 Hz	0.054 %	Using 3 $\Phi$ Power/Energy Meter(ZERA EPZ-303-5) & MTS 320 Bench By Comparison Method

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

<sup>§</sup> Only in Permanent Laboratory

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