

Laboratory Maharashtra State Electricity Distribution Co. Ltd., Testing and Quality Assurance Laboratory, Pune-Saswad Road, Phursungi Village, Pune, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2380 (in lieu of C-0982)

Page 1 of 2

Validity 26.11.2017 to 25.11.2019

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
<u>ELECTRO-TECHNICAL CALIBRATION</u>				
I.	SOURCE / MEASURE			
1.	AC Power/ Energy (1 Φ & 3 Φ) Active ^{\$}	50 Hz 40 V to 300 V 10 mA to 100 A (Lag & Lead) (cos Φ) $1 \geq PF > 0.5$ $0.5 \geq PF \geq 0.2$	0.06% to 0.07 % 0.07 % to 0.12 %	Using ZERA EPZ 303 – 08 By Direct / Comparison Method
2.	AC power/ Energy (1 Φ & 3 Φ) Reactive ^{\$}	50 Hz 40 V to 300 V 10 mA to 100 A (Lag & Lead) (sin Φ) $1 \geq PF > 0.5$ $0.5 \geq PF \geq 0.2$	0.06% to 0.07% 0.07% to 0.12%	Using ZERA EPZ 303 – 08 By Direct / Comparison Method
3.	Apparent Power/Energy ^{\$} (1 Φ & 3 Φ)	50 Hz 40 V to 300 V 10 mA to 100 A	0.06%	Using ZERA EPZ 303 – 08 By Direct / Comparison Method
4.	Power Factor ^{\$}	50 Hz 40V to 300V 10mA to 100A 0.2PF to 1 to 0.2PF (Lag/Lead)	0.005PF	Using ZERA EPZ 303 – 08 By Direct / Comparison Method

Sangeeta Kunwar
Convenor

Avijit Das
Program Director

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Page 2 of 2

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
5.	AC Voltage [§]	50 Hz 40V to 300V	0.04%	Using ZERA EPZ 303 – 08 By Direct / Comparison Method
6.	AC Current [§]	50 Hz 10 mA to 100 A	0.06 % to 0.04 %	Using ZERA EPZ 303 – 08 By Direct / Comparison Method

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

[§]Only in Permanent Laboratory