Laboratory CLICK-IN Calibration Laboratory, S. No. 44/3, Flat No. 11, Satyam Plaza,

Sinhagad College Campus, Vadgaon Bk., Pune, Maharashtra

Accreditation Standard ISO/IEC 17025:2005

**Avijit Das** 

**Program Manager** 

Discipline Electro-Technical Calibration Issue Date 19.07.2014

Certificate Number C-0839 Valid Until 18.07.2016

Last Amended on - Page 1 of 3

	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
SO	<u>URCE</u>			
1.	DC Voltage#	1 mV to 200 mV 200mV to 20 V 20V to 1000 V	3.77% to 0.12% 0.12% to 0.14% 0.14% to 0.26%	Using Zeal 5½Digit Multifunction Calibrator by Direct Method
2.	AC Voltage#	50 Hz 40 mV to 200 mV 200 mV to 20 V 20V to 990 V	1.0% to 0.44 % 0.44% to 0.19 % 0.19% to 0.21 %	Using Zeal 5½Digit Multifunction Calibrator by Direct Method
3.	DC Current <sup>#</sup>	0.1mA to 20 mA 20 mA to 2A 2A to 10 A 10 A to 990 A	2.3% to 0.37% 0.37% to 0.24% 0.24% to 0.20% 0.73%	Using Zeal 5½Digit Multifunction Calibrator with current coil by Direct Method
4.	AC Current <sup>#</sup>	50 Hz 0.1mA to 20 mA 20 mA to 2A 2A to 10 A 10 A to 990 A	5.25% to 0.40% 0.40% to 0.34% 0.34% to 1.40% 2.60%	Using Zeal 5½Digit Multifunction Calibrator with current coil by Direct Method
5.	Capacitance <sup>#</sup>	<b>1 kHz</b> 500 pF to 1 μF	2.90%	Using AGRONIC CDB 6 Capacitance Box by Direct Method
6.	Resistance <sup>#</sup>	$1\Omega$ to $1000~\Omega$ $1000~\Omega$ to $1~M\Omega$	1.47% 1.16%	Using AGRONIC Decade Resistance Box RDB 6 by Direct Method

Sangeeta Kunwar

Convenor

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Last Amended on - Page 2 of 3

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7.	Temperature Indicator/ Recorder / Controller#				
	RTD (Input)	-200°C to 850°C	0.59°C to 0.82°C	Using Universal	
	Т/С Ј Туре	-200 °C to 700°C	0.6°C to 1.6°C	calibrator (Radix	
	Т/С К Туре	-200 °C to 1200°C	0.78°C to 1.6°C	Model-Microcal)	
	T/C R Type	150 °C to 1700°C	$0.6^{\circ}$ C to $1.6^{\circ}$ C	by Simulation Method	
	T/C S Type	150 °C to 1700°C	$0.6^{\circ}$ C to $1.6^{\circ}$ C		
ME	ASURE				
8.	DC Voltage#	1 mV to 100 mV	0.85% to 0.01%	Using 6½ Digital	
	G	100 mV to 10 V	0.10%	Multimeter	
		10 V to 1000 V	0.10%	by Direct Method	
9.	DC High Voltage♣	0.5 kV to 10kV	3.5%	Using Zeal HV Probe with 4½ Digital Multimeter by Direct Method	
10.	AC Voltage#	50 Hz			
	To vollage	100 mV to 10 V 10 V to 1000 V	0.12% to 0.11% 0.20%	Using 6½ Digital Multimeter by Direct Method	
11.	AC High Voltage⁴	0.5 kV to 10 kV	3.5%	Using Zeal HV Probe with 4½ Digital Multimeter by Direct Method	
12.	DC Current <sup>#</sup>	0.1mA to 20 mA	0.58%	Using 6½ Digital	
		20 mA to 2A	0.58% to 0.19%	Multimeter	
		2A to 10 A	0.19% to 0.22%	by Direct Method	

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Last Amended on - Page 3 of 3

	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
13.	AC Current#	50 Hz 0.2mA to 20 mA 20 mA to 2A 2A to 10 A	0.3% to 0.17% 0.17% to 0.29% 0.29%	Using 6½ Digital Multimeter by Direct Method
14.	Resistance <sup>#</sup>	$1\Omega$ to $10~\Omega$ $10~\Omega$ to $10~k\Omega$ $10~k\Omega$ to $1~M\Omega$	0.69% 0.69% to 0.20% 0.20%	Using 6½ Digital Multimeter by Direct Method
15.	Frequency#	10 Hz to 3 kHz	0.09% to 0.019%	Using 6½ Digital Multimeter by Direct Method
16.	Time <sup>#</sup>	10 sec to 3600 sec	0.32 sec to 3.0 sec	Using Race make Digital Stop Watch by Comparison Method

<sup>\*</sup> Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%

Avijit Das Program Manager Sangeeta Kunwar

Convenor

**<sup>♣</sup>**Only for Site Calibration

<sup>&</sup>lt;sup>#</sup> The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used