



NABL

Department of Science & Technology, India

SCOPE OF ACCREDITATION

Laboratory **Classic Instrumentation Pvt. Ltd., C-45, Sector-65, Noida**

Accreditation Standard **ISO/IEC 17025:2005**

Discipline **Electro-Technical Calibration** Issue Date **01.08.2012**

Certificate Number **C-0210** Valid Until **31.07.2014**

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
1. DC VOLTAGE ¹	1 mV to 10 mV 10 mV to 100 mV 100mV to 1000V	0.75% to 0.08% 0.08% to 0.01% 0.01%	Using MFC 5500 Calibrator By Direct Method
2. AC VOLTAGE ¹	50 Hz to 1 kHz 10mV to 1V 1 V to 1000 V	0.51% to 0.07% 0.07% to 0.1%	Using MFC 5500 Calibrator By Direct Method
3. DC CURRENT ¹	1mA to 100 mA 100mA to 10A 10A to 550 A	0.18% to 0.02% 0.02% to 0.16% 2.0%	Using Flue Calibrator 5500 & Current Coil By Direct Method
4. AC CURRENT ¹	50 Hz to 1 kHz 1mA to 100 mA 100mA to 10A 10A to 550 A	0.3% to 0.13% 0.13% to 0.41% 2.0%	Using MFC 5500 Calibrator & Current Coil By Direct Method
5. DC RESISTANCE ¹	0.001 Ω to 10 Ω 10 Ω to 1M Ω 1 M Ω to 300 M	0.7% to 0.8% 0.8% to 0.1% 0.1% to 0.6%	Using Discrete Res Using MFC 5500 Calibrator
	20M Ω , 200 M Ω , 2 G Ω , 20G Ω	3.4% to 1.7%	Using Discrete Res By direct method
6. INDUCTANCE ¹	1kHz 100 μ H to 10 H	4.15% to 2.5%	Using Std. Inductance Box
7. CAPACITANCE ¹	1 kHz 1nF to 10 μ F	1.8%	Using MFC 5500 Calibrator & Std. Cap. Box By Direct Method


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8. AC POWER ¹ 1 Phase 50 Hz UPF & 0.5 PF	1V to 600 V 1A to 10A 1W to 6000W	6.1% to 0.06%	Using MFC 5500 Calibrator By Direct Method
9. TIMER ³	10 sec to 50 min	1 s to 15 s	Using Digital Timer By Comparison Method
10. FREQUENCY ¹	1Hz to 2 MHz	1.2% to 0.1%	MFC 5500 & function Generator Scientific Make By Direct Method
11. SIMULATION FOR TEMP INDICATOR/ CONTROLLER/ RECORDER ³ RTD THERMOCOUPLE (J/K/R)	-200°C to 600°C -100°C to 1300°C	0.4 °C 0.5 °C to 1.5 °C	Using Flue Calibrator 5500 & + ITS 90 By Direct Method
12. POWER FACTOR ¹	* 0.200PF 0.500PF 0.800PF 1.000PF	2.88% to 0.76%	Using Flue Calibrator 5500 By Direct Method
MEASURE			
13. DC VOLTS ³	1 mV to 10 mV 10 mV to 100 mV 100mV to 1000V	1.0% to 0.12% 0.12% 0.12% to 0.1%	Using FLUKE 8845A DMM 6½ dig.
DC HIGH VOLTS ³	1kV to 15 kV	1.2%	Using FLUKE 8845A DMM & HV probe By Direct Method


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14. AC VOLT ³	50 Hz 1mV to 750V	3.5% to 1.1%	Using D FLUKE 8845A DMM
AC HIGH VOLTS ³	50 Hz 1 kV to 15kV	2.6%	FLUKE 8845A DMM+ HV probe By Direct Method
15. SIMULATION FOR CALIBRATION OF PROCESS CALIBRATOR RTD THERMOCOUPLE (J/K/R) ³	-200°C to 600 °C -100°C to 1300°C	0.4°C 0.4°C to 1.5°C	Using Fluke Calibrator 525A By Direct Method
16. DC CURRENT ³	1mA to 100 mA 100mA to 10A	0.64% to 0.02% 0.02% to 0.27%	Using FLUKE 8845A DMM By Direct Method
17. AC CURRENT ³	50 Hz 1mA to 100 mA 100mA to 10A	0.25% to 0.13% 0.13% to 0.16%	Using FLUKE 8845A DMM By Direct Method
18. DC RESISTANCE ³	0.001Ω to 10 Ω 20 Ω to 10MΩ 20MΩ, 200 MΩ , 2 GΩ , 20GΩ	1.5% to 1.3%	Digital Micro ohm Meter, FLUKE 8845A DMM By Direct Method
19. INDUCTANCE ³	1kHz 100μH to 10 H	4.15 to 2.5	Using LCR Meter Escort ELC-3131D By Direct Method
20. CAPACITANCE ³	1 kHz 1nF to 10 μF	1.2%	Using LCR Meter Escort ELC-3131D By Direct Method

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