

Laboratory Central Laboratory, Bureau of Indian Standards, 20/9, Site IV, Sahibabad Industrial Area, Ghaziabad, Uttar Pradesh

Accreditation Standard ISO/IEC 17025:2005

Discipline Electro-Technical Calibration Issue Date 30.07.2014

Certificate Number C-0051 Valid Until 29.07.2016

Last Amended on - Page 1 of 2

Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability (\pm)	Remarks
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SOURCE

- | | | | |
|---|---------------------------------|------------------|--|
| 1. TEMPERATURE SIMULATION [§]
(Indicator/ Recorder/ Controller)
Thermocouple Type J, K | 1 mV to 56 mV
(Upto 1350 °C) | 1.75 % to 0.30 % | Using Millivolt Source + ITS 90 by Direct Method |
|---|---------------------------------|------------------|--|

MEASURE

- | | | | |
|----------------------------|--|---|--|
| 1. DC VOLTAGE [§] | 100 mV to 1 V
1 V to 100 V
100 V to 1000 V | 0.50 % to 0.064 %
0.064 %
0.064 % to 0.162 % | Using Fluke 8824A 6½ Digital Multi-Meter by Comparative Method |
| 2. DC CURRENT [§] | 100 µA to 100 mA
100 mA to 1 A | 0.17 %
0.17 % to 0.35 % | Using Fluke 8824A 6½ Digital Multi-Meter by Comparative Method |
| 3. AC VOLTAGE [§] | 40 Hz to 5 kHz
100 mV to 1 V
1 V to 10 V
10 V to 1000 V | 0.115 % to 0.16 %
0.16 % to 0.105 %
0.105 % to 0.0952 % | Using Fluke 8846A 6½ Digital Multi-Meter by Comparative Method |

Bibin Philip
Convenor

Avijit Das
Program Manager

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Last Amended on - **Page** 2 of 2

Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability (\pm)	Remarks
4. AC CURRENT ^{\$}	1.1 kHz		
	100 μ A to 10 mA	1.4 % to 0.243 %	Using Fluke 8846A 6½ Digital Multi-Meter by Comparative Method
	10 mA to 100 mA	0.243 % to 0.19 %	
100 mA to 1 A	0.19 % to 0.22 %		

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

^{\$}Only in Permanent Laboratory

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