



NABL

SCOPE OF ACCREDITATION

Laboratory Ahmedabad Textile Industry's Research Association (ATIRA), Dr. Vikram Sarabhai Road, P.O. Ambawadi Vistar, Ahmedabad, Gujarat

Accreditation Standard ISO/IEC 17025:2005

Discipline Electro-Technical Calibration Issue Date 19.03.2015

Certificate Number C-1008 Valid Until 18.03.2017

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
MEASURE			
1. DC VOLTAGE [#]	1 mV to 1000 V	0.8 % to 0.01 %	Using Fluke 6½ DMM Fluke 8846 A with Source 5500 A MFC by Direct/Comparison Method
2. DC CURRENT [#]	100 μ A to 100 mA 100 mA to 10 A	0.1 % to 0.22 %	Using Fluke 6½ DMM Fluke 8846 A with Source 5500 A MFC by Direct/Comparison Method
3. RESISTANCE [#] (4 WIRE & 2WIRE)	1 Ω to 100 k Ω 100 k Ω to 10 M Ω 10 M Ω to 100 M Ω	0.8 % to 0.016 % 0.016 % to 0.082 % 0.082 % to 1 %	Using Fluke 6½ DMM Fluke 8846 A with Source 5500 A MFC by Direct/Comparison Method
4. AC VOLTAGE [#]	50 Hz 100 mV to 1000 V	0.12 % to 0.13 %	Using Fluke 6½ DMM Fluke 8846 A with Source 5500 A MFC by Direct/Comparison Method
5. AC CURRENT [#]	50 Hz 100 μ A to 1 A 1 A to 10 A	0.5 % to 0.2 % 0.2 % to 0.26 %	Using Fluke 6½ DMM Fluke 8846 A with Source 5500 A MFC by Direct/Comparison Method
6. FREQUENCY [#]	45 Hz to 100 kHz	0.013 % to 0.058 %	Using Fluke 6½ DMM Fluke 8846 A with Source 5500 A MFC by Direct/Comparison Method

Vishal Shukla
Convenor

Avijit Das
Program Manager



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7. CAPACITANCE [#]	10 nF to 1 mF	5.25 % to 3.0 %	Using Fluke 6½ DMM Fluke 8846 A with Source 5500 A MFC by Direct/Comparison Method
8. TEMPERATURE SIMULATIONS [#] RTD Type	(-) 200 °C to 600°C	0.45°C to 0.67 °C	Using Fluke 6½ DMM Fluke 8846 A with Source 5500 A MFC by Direct/Comparison Method
9. STOP WATCH/TIMER DIGITAL CLOCK [#] L.C.: 0.01 s	40 s to 24 hours	0.54 to 5.85 s	Using Fluke 6½ DMM Fluke 8846 A with Source 5500 A MFC by Direct Method

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

[#] The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.

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