

Laboratory Khushi Calibration Laboratory, MCF 7329, 33 Ft. Road, Sanjay Colony, Sec.-23, Faridabad, Haryana
Accreditation Standard ISO/IEC 17025: 2005
Discipline Electro-Technical Calibration **Issue Date** 24.09.2015
Certificate Number C-1274 **Valid Until** 22.09.2017
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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
MEASURE			
1. DC VOLTAGE \$	10 mV to 100 mV	1.0 % to 0.08 %	Using 6 ½ DMM Fluke 8845A by Direct/ Comparison Method
	100 mV to 10 V	0.08 %	
	10 V to 1000 V	0.08 %	
DC HIGH VOLTAGE TESTER *	2 kV to 5 kV	2.8 % to 4.35 %	Using HV Probe with 3½ DMM by Direct/ Comparison Method
2. AC VOLTAGE \$	50 Hz		
	10 mV to 100 mV	2.0 % to 0.22 %	Using 6 ½ DMM Fluke 8845A Direct/ Comparison Method
	100 mV to 100 V	0.22 % to 0.4 %	
100 V to 750 V	0.4 % to 0.5 %		
AC HIGH VOLTAGE TESTER *	50Hz		Using HV Probe with 3½ DMM by Direct/ Comparison Method
	2 kV to 10 kV	6.5 %	
	50 Hz		
	10 kV to 60 kV	6.5 % to 7.5 %	Using HV Probe with Indicator by Direct/ Comparison Method
3. DC CURRENT \$	0.1 mA to 100 mA	1.0 % to 0.3 %	Using 6 ½ DMM Fluke 8845A by Direct/ Comparison Method
	100 mA to 10 A	0.3 % to 0.5 %	
4. AC CURRENT \$	50 Hz		Using 6 ½ DMM Fluke 8845A by Direct/ Comparison Method
	1 mA to 100 mA	0.9 % to 0.6 %	
	100 mA to 8 A	0.6 % to 0.8 %	
AC HIGH CURRENT \$	50 Hz		Using 6 ½ DMM Fluke 8845A with Current Coil & Zeal Calibrator by Direct/ Comparison Method
	10 A to 100 A	1.7 % to 0.85 %	
	100 A to 500 A	0.85 % to 1.3 %	

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 Program Manager

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5. RESISTANCE \$ 4 Wire	1 m Ω to 100 m Ω 100 m Ω to 1 Ω	3.0 % to 0.7 % 0.7 %	Using Dig. Micro Ohm Meter by Direct/ Comparison Method
RESISTANCE \$ 2 Wire	10 Ω to 100 Ω 100 Ω to 100 k Ω 100 k Ω to 1 M Ω 1 M Ω to 10 M Ω 10 M Ω to 100 M Ω	0.16 % to 0.1 % 0.1 % to 0.16 % 0.16 % 0.16 % 0.16 % to 2.0 %	Using 6 1/2 DMM Fluke 8845A by Direct/ Comparison Method
6. FREQUENCY \$	50 Hz to 300 kHz	0.06 % to 0.15 %	Using 6 1/2 DMM Fluke 8845A by Direct/ Comparison Method
7. CAPACITANCE \$	1 kHz 1000 pf to 10 nf 10 nf to 100 nf 100 nf to 1 μ f 1 μ f to 10 μ f	0.5 % to 0.65 % 0.65 % to 0.45 % 0.45 % to 1.5 % 1.5 %	Using Dig. L.C.R Meter Aplab by Direct/ Comparison Method
8. INDUCTANCE \$	1 kHz 1 mH to 10 mH 10 mH to 1 H	0.65 % to 1.00 % 1.00 % to 0.6 %	Using Dig. L.C.R Meter Aplab by Direct/ Comparison Method
9. DIG. TIME INTERVAL METER/ STOP WATCH \$	10 s to 1 m 1 m to 60 m	0.2 s to 2.2 s 2.2 s to 5.2 s	Using Dig. Time Interval Meter by Direct/ Comparison Method

SOURCE

1. RESISTANCE \$ 4 Wire	1 m Ω 10 m Ω 100 m Ω 1 Ω	1.0 % 0.7 % 0.7 % 0.7 %	Using SRB-431 by Direct Method
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RESISTANCE \$ 2 Wire	2 M Ω 20 M Ω 200 M Ω 2 G Ω	2.0 % 2.0 % 2.6 % 3.55 %	Using SRB-853 by Direct Method
2. FREQUENCY \$	30 Hz to 3 MHz	1.25 % to 0.45 %	Using Function Generator Aplab by Direct Method
3. TEMPERATURE SIMULATION (TEMP.INDICATOR/ RECORDER/ SCANNER) # THERMOCOUPLE			
J Type	10 °C to 700 °C	1.0 °C to 3.2 °C	Using Universal Calibrator by Direct Method
S Type	10 °C to 1200 °C	1.5 °C to 5.3 °C	
K Type	10 °C to 1200 °C	1.0 °C to 5.3 °C	
R Type	10 °C to 1200 °C	1.5 °C to 5.3 °C	
RTD (PT-100) type	-170 °C to 650 °C	1.2 °C to 2.7 °C	

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

\$Only in Permanent Laboratory

*Only for Site Calibration

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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