

**Laboratory** Industrial Metrology Centre, No. 36, 1st Floor, J. M. Solanki Complex,  
Ahmed Mohideen Street, Sriperumbudur, Kanchipuram District,  
Tamil Nadu

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

**Certificate Number** CC-2516 (in lieu of C-0974, C-0975 & C-0976) **Page** 1 of 6

**Validity** 03.12.2017 to 02.12.2019 **Last Amended on** 03.01.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>ELECTRO-TECHNICAL CALIBRATION</u></b>				
<b>I.</b>	<b>MEASURE</b>			
1.	DC Voltage <sup>#</sup>	1 mV to 30 V	0.46 mV to 6.3 mV	Using 6½ Digit Standard Precision Multimeter by Direct /Comparison Method
2.	DC Current <sup>#</sup>	0.5 mA to 24 mA	0.01 mA to 0.018 mA	Using 6½ digit Standard Precision Multimeter by Direct /Comparison Method
3.	Resistance <sup>#</sup>	1 $\Omega$ to 400 $\Omega$	0.02 $\Omega$ to 0.032 $\Omega$	Using 6½ digit Standard Precision Multimeter by Direct/ Comparison Method
		400 $\Omega$ to 1 M $\Omega$	0.032 $\Omega$ to 0.59 k $\Omega$	Using 6½ digit Standard Precision Multimeter by Direct Method
4.	Frequency <sup>#</sup>	100 Hz to 11 kHz	0.81 Hz to 0.06 kHz	Using 6½ digit Standard Precision Multimeter by Direct/ Comparison Method

**Shally Sharma**  
Convenor

**Avijit Das**  
Program Director

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5.	Temperature Simulation <sup>#</sup> RTD  Thermocouple K Type E Type J Type T Type R Type B Type S Type N Type	(-) 200 °C to 800 °C  (-) 200 °C to 1200°C (-) 200 °C to 950 °C (-) 200 °C to 1200°C (-) 130 °C to 400 °C 150 °C to 1750 °C 920 °C to 1800 °C 170 °C to 1750 °C 0 °C to 1300 °C	1.2 °C  2.4 °C 2.3 °C 2.4 °C 2.3 °C 3.5 °C 3.6 °C 3.5 °C 2.5 °C	Using Yokogawa Handy Calibrator CA – 71 by Direct Method
6.	Digital Timer <sup>#</sup> (Stop Watch, Analog Timer)	1 sec to 7200 sec	1.98 sec	Using Digital Timer by Direct Method
II.	<b>SOURCE</b>			
1.	Temperature Simulation <sup>#</sup> (Temperature Indicator, Controller, Recorder) RTD  Thermocouple K Type E Type J Type T Type R Type B Type S Type N Type	(-) 200 °C to 800 °C  (-) 200 °C to 1200°C (-) 200 °C to 950 °C (-) 200 °C to 1200°C (-) 130 °C to 400 °C 150 °C to 1750 °C 950 °C to 1800 °C 150 °C to 1750 °C 0 °C to 1300 °C	0.70 °C  2.32 °C 2.36 °C 2.3 °C 2.3 °C 3.5 °C 3.8 °C 3.4 °C 2.7 °C	Using Yokogawa Handy Calibrator CA – 71 by Direct Method

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**MECHANICAL CALIBRATION**

<b>I.</b>	<b>MASS</b>			
<b>1.</b>	Weighing Balance <sup>#</sup>  Readability 0.1 mg Readability 0.01 g Readability 0.1 g Readability 10 g  Readability 10 g Readability 100 g	1 mg to 200 g >200 g to 2000 g >2000 g to 6000 g >6 kg to 20 kg  >20 kg to 250 kg >250 kg to 500 kg	0.22 mg 13 mg 150 mg 8.2 g  16.4 g 82.0 g	Using Standard F2 Class Weights as Per OIML R76     Using Standard M1 Class as Per OIML R76
<b>II.</b>	<b>PRESSURE INDICATING DEVICES</b>			
<b>1.</b>	Pressure-Hydraulic <sup>#</sup> (Dial, Digital Pressure Gauges/ Indicators/Calibrator/ Recorder / Pressure Transducers/ Pressure Transmitter and Pressure Switches)	0 to 7 bar >7 bar to 20 bar >20 bar to 70 bar >70 bar to 200 bar >200 bar to 700 bar	0.0062 bar 0.0076 bar 0.044 bar 0.065 bar 0.38 bar	Using Hydraulic Comparator/ Pump & Druck Digital Pressure Gauge by Comparison Method as per DKD-R-6-1
<b>2.</b>	Pressure-Pneumatic <sup>#</sup> (Dial, Digital Pressure Gauges/Indicators/ Calibrator/ Recorder / Pressure Transducers/ Pressure Transmitter and Pressure Switches)	0 bar to 7 bar >7 bar to 20 bar	0.0051 bar 0.0075 bar	Using Pneumatic Pump & Druck Digital Pressure Gauge By Comparison Method as per DKD-R-6-1

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3.	Low Pressure-Pneumatic <sup>s</sup> (Dial, Digital Pressure Gauges/Indicators/ Magnehelic Gauge and Manometer)	(0 to 250) mm H <sub>2</sub> O (0 to 0.0245 bar)	1.3 mm H <sub>2</sub> O (0.127 mbar)	Using Pneumatic Screw Pump & Digital Manometer By Comparison Method as per DKD-R-6-1
4.	Vacuum-Pneumatic <sup>#</sup> (Dial, Digital Vacuum Gauges/Indicators/ Transmitter/Pressure Transducers, Magnehelic Gauge)	(-) 0.90 bar to 0 bar (-) 0.0245 bar to 0 bar	0.0047bar 0.0127 mbar	Using Pneumatic Pump & Druck Digital Pressure Indicator by Comparison Method as per DKD-R-6-1

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<b><u>THERMAL CALIBRATION</u></b>				
<b>I.</b>	<b>TEMPERATURE</b>			
1.	RTD's & TC's with/without Indicator, Temperature Gauges, Temperature Transmitters, Temperature Switches, Temperature Indicator/Recorder or Controller with sensors, Dry block Calibrator, Liquid Bath <sup>#</sup>	(-) 30 °C to 650 °C 650 °C to 1200 °C	0.68 °C 4.4 °C	Using Standard RTD, DMM 6 ½ Fluke 8845 A, Standard (S Type) Thermocouple, MFC CA71 and Dry Block calibrators by Comparison Method
2.	Temperature Sensors with Indicators/ Controllers of Equipments like Incubator, Chamber, Refrigerator, Freezer, Oven, Autoclave, Furnace, Temperature Liquid Bath*	(-) 30 °C to 650 °C 650 °C to 1200 °C	0.68 °C 4.4 °C	Using Standard RTD, Standard (S Type) Thermocouple and MFC CA71 by Comparison Method  (Single Point Calibration)

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3.	Chamber ,Incubator, Refrigerator, Freezer, Temperature Liquid Bath, Oven, Autoclave, Furnace*	(-) 30 °C to 250 °C 250 °C to 1200 °C	1.81 °C 6.22 °C	Using RTD, Thermocouple and Data Scanner by Comparison Method Multi- Point Calibration

\* 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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