

**Laboratory** Auto Instrument Calibration Laboratory, Prasanna Apartment, Office  
No. 2, J.M. Road, Shivajinagar, Pune, Maharashtra

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

<b>Discipline</b>	<b>Thermal Calibration</b>	<b>Issue Date</b>	<b>22.04.2016</b>
<b>Certificate Number</b>	<b>C-0280</b>	<b>Valid Until</b>	<b>21.04.2018</b>
<b>Last Amended on</b>	<b>16.06.2016</b>	<b>Page</b>	<b>1 of 2</b>

Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability (±)	Remarks
<b>I. TEMPERATURE</b>			
1. LIQUID-IN-GLASS THERMOMETER <sup>\$</sup>	(-) 20 °C to 250 °C	0.6 °C	Using RTD with 6 ½ DMM & Oil Bath by Comparison Method
2. DIAL TEMPERATURE GAUGE, TEMPERATURE INDICATOR WITH SENSOR, RTD, THERMOCOUPLE <sup>\$</sup>	(-) 20 °C to 50 °C 50 °C to 250 °C	0.2 °C 0.5 °C	Using RTD 6 ½ DMM & Dry Block Calibrator by Comparison Method
3. DIAL TEMPERATURE GAUGE, TEMPERATURE INDICATOR WITH SENSOR, RTD, THERMOCOUPLE <sup>\$</sup>	250 °C to 500 °C 500 °C to 1000 °C	0.7 °C 1.48 °C	Using S-type Thermocouple with 6 ½ DMM & Dry Block by Comparison Method
4. NON CONTACT TYPE IR THERMOMETER, PYROMETERS <sup>\$</sup>	30 °C to 500 °C	1.43 °C	Using Black Body Source, RTD with 6 ½ DMM by Comparison Method
5. LIQUID-IN-GLASS THERMOMETER <sup>*</sup>	(-) 10 °C to 250 °C	0.6 °C	Using RTD with 6 ½ DMM & Alcohol Bath, Oil Bath by Comparison Method
6. DIAL TEMPERATURE GAUGE, TEMPERATURE INDICATOR WITH SENSOR, RTD, THERMOCOUPLE <sup>*</sup>	(-) 10 °C to 250 °C 250 °C to 1000 °C	0.5 °C 1.5 °C	Using RTD/S-Type Thermocouple with 6 ½ DMM & Dry Block Calibrator by Comparison Method
7. TEMPERATURE INDICATOR WITH SENSOR OF OVEN DEEP FREEZER, INCUBATOR, AUTOCLAVE <sup>*</sup>	(-) 80 °C to 0 °C 0 °C to 200 °C	0.7 °C 1.1 °C	Using RTD with Temperature Indicator & RTD with Data Logger by Single Position Calibration at Measuring Location in UUC

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability ( $\pm$ )	Remarks
8. CALIBRATION OF OVEN, CHAMBER, FURNACE*	100 °C to 250 °C 250 °C to 1000 °C	2.2 °C 4.2 °C	Using K-Type Thermocouples (Minimum Nine) with Data Logger by Multi-Position Calibration
<b>II. SPECIFIC HEAT &amp; HUMIDITY</b>			
1. DIGITAL THERMO- HYGROMETER\$	15 °C to 40 °C @ 50 % RH  30 % RH to 90 % RH @ 25 °C	0.69 °C  2.1 % RH	Using Temperature & Humidity Chamber with Master Digital Thermo-hygrometer by Comparison Method

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

\$Only in Permanent Laboratory

\*Only for Site Calibration

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