

Laboratory Sigma Test & Research Centre, A-131, Mangolpuri Industrial Area, Phase – II, New Delhi

Accreditation Standard ISO/IEC 17025: 2005

Discipline Thermal Calibration **Issue Date** 20.11.2014

Certificate Number C-1069 **Valid Until** 19.11.2016

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. TEMPERATURE			
1. LIQUID IN GLASS THERMOMETER, DIAL THERMOMETER [§]	- 40 °C to 10 °C 10 °C to 300 °C	0.2 °C 0.25 °C	PRT & Digital Thermometer
2. RTD'S, THERMOCOUPLE, DIGITAL THERMOMETER, TEMPERATURE INDICATOR WITH SENSOR, TEMPERATURE TRANSMITTER, TEMP. DATA LOGGER WITH SENSOR [§]	- 80 °C to 300 °C	0.10 °C	PRT Sensor with Digital Indicator , Liquid Bath
3. RTD'S, THERMOCOUPLE, DIGITAL THERMOMETER, TEMPERATURE INDICATOR WITH SENSOR, TEMPERATURE TRANSMITTER , DIAL THERMOMETERS, TEMP. DATA LOGGER WITH SENSOR [§]	300 °C to 650 °C 300 °C to 650 °C	0.10 °C 0.71 °C	PRT Sensor with Digital Indicator , Dry Block Calibrator By comparison method Using 'S' Type Thermocouple & Digital Thermometer Readout
4. THERMOCOUPLES WITH & WITHOUT TEMPERATURE INDICATOR , TEMPERATURE DATA LOGGER WITH SENSOR [§]	650 °C to 1100 °C	1.5 °C	"S" Type Thermocouple with Digital Indicator, Calibration Furnace By comparison method

Sangeeta Kunwar
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5. INFRARED THERMOMETER^{\$}	250 °C to 500 °C	4.85 °C	Using Infrared Thermometer
6. RTD/THERMOCOUPLE, (WITH AND WITHOUT TEMPERATURE READ OUT DISPLAY) TEMPERATURE TRANSMITTER TEMPERATURE GAUGE[*]	-25 °C to 140 °C 140 °C to 300 °C	0.3 °C 1 °C	Using PRT & Digital Thermometer
7. THERMOCOUPLES[*] (WITH AND WITHOUT READOUT DISPLAY)	300 °C to 1200 °C	2 °C	Using 'S' Type Thermocouple & Digital Thermometer
8. FREEZER, INCUBATOR,BOD, AUTOCLAVE, WATER BATH, LIQUID BATH, ENVIRONMENT CHAMBER[*] (Single/Multi-channel)	-20 °C to 200 °C 200 °C to 300 °C 300 °C to 1000 °C	0.7 °C 1.6 °C 2.0 °C	Using 9 PRT & k Type Thermocouple with Data Logger
9. TEMPERATURE INDICATOR OF DRY BLOCK, OVEN, MUFFLE FURNACE, INDUSTRIAL FURNACE[*]	-25 °C to 300 °C -25 °C to 1200 °C	1.6 °C 2.0 °C	Using PRT Digital Indicator (Single Position Calibration) Using 'S' Type Thermocouple, Digital Indicator (Single Position Calibration)

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II. RELATIVE HUMIDITY

1. HUMIDITY INDICATOR OF HUMIDITY CHAMBER, ENVIRONMENT CHAMBER ETC*	20% RH to 94% RH	1.75 % RH	Using Digital Thermo Hygrometer with Probe
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*** 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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