Laboratory Hi Tech Calibration Services, No. 130, 2nd Floor, VGP Nagar, Mugappair

West, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025:2005

Discipline Thermal Calibration Issue Date 11.09.2015

Certificate Number C-1264 Valid Until 10.09.2017

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Quantity Measured / Rang Instrument		ge/ Frequency * Calibration Measurement Capability (±)		Remarks
I.	TEMPERATURE			
1.	GLASS THERMOMETER, TEMPERATURE GAUGES♯	50 °C to 250 °C	0.60 °C	Using Oil Bath, 6 ½ Digit Multimeter & RTD Sensor by Comparison Method
2.	RTD SENSOR / THERMOCOUPLE, TEMPERATURE INDICATOR / CONTROLLER WITH SENSOR, TEMPERATURE TRANSMITTER, TEMPERATURE SWITCH#	(-) 8 °C to 50 °C 50 °C to 250 °C 250 °C to 600 °C 600 °C to 1200 °C	0.59 °C 0.80 °C 1.60 °C 3.81 °C	Using Dry Block Calibrator, RTD Sensor, R- Type Thermocouple, 6 ½ Digit Multimeter and Multifunction Calibrator By Comparison Method
3.	TEMPERATURE INDICATOR / CONTROLLER WITH SENSOR OF TEMPERATURE BATH / DRY BLOCK CALIBRATOR*	(-) 8 °C to 250 °C 250 °C to 600 °C 600 °C to 1200 °C	0.80 °C 1.6 °C 3.81 °C	Using RTD Sensor, R- Type Thermocouple, 6 ½ Digit Multimeter and Multifunction Calibrator @ Measuring Location in DUC by Single Position Calibration
4.	TEMPERATURE INDICATOR / CONTROLLER WITH SENSOR OF DEEP FREEZER, CHILLER, AUTOCLAVE, CHAMBER, INCUBATOR, WATER BATH, OVEN, FURNACE*	(-) 80 °C to (-) 37 °C (-) 37 °C to 400 °C 400 °C to 1200 °C	0.99 °C 0.53 °C 2.38 °C	Using RTD Sensor, R Type Thermocouple and Multifunction Calibrator @ Measuring Location in DUC (Single Position Calibration)

Vishal Shukla Convenor Avijit Das Program Manager Laboratory Hi Tech Calibration Services, No. 130, 2nd Floor, VGP Nagar, Mugappair

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	Quantity Measured / Rang Instrument	e/ Frequency * Calib	ration Measurement Capability (±)	Remarks			
5.	DEEP FREEZER, CHILLER, AUTOCLAVE, CHAMBERS, INCUBATORS, WATER BATH, OVEN, FURNACE*	(-) 80 °C to 100 °C	1.85 °C	Using RTD Sensors (Minimum 9) with Data Logger by Multi Position Calibration			
	BATH, OVEN, FURNACE	100 °C to 500 °C 500 °C to 1100 °C	1.85 °C 3.9 °C	Using K - Type Thermocouples (Minimum 9) with Data Logger by Multi Position Calibration			
II.	SPECIFIC HEAT AND HUMIDITY						
1.	HUMIDITY INDICATOR / CONTROLLER WITH SENSOR OF HUMIDITY CHAMBER, ENVIRONMENT CHAMBER, CLIMATIC CHAMBER*	18 % RH to 90 %RH @ ≈ 25 °C	3.2 %RH	Using Humidity sensor with Data Logger @ Measuring Location in DUC (Single Position Calibration)			
2.	HUMIDITY CHAMBER, ENVIRONMENTAL CHAMBER, CLIMATIC CHAMBER*	18 %RH to 90 %RH @≈ 25 °C	4.1 %RH	Using Humidity sensor (Minimum 9) with Data Logger (Multi Position Calibration)			

Vishal Shukla Avijit Das
Convenor Program Manager

<sup>\*</sup> Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%

<sup>\$</sup>Only in Permanent Laboratory

<sup>\*</sup>Only for Site Calibration

<sup>&</sup>lt;sup>#</sup> The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.