



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Hi-Tech Calibration, Gala No. 060, Royal Industrial Hub,
At & Post: Valvada, Taluka: Umbergaon, Dist.: Valsad, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2478 **Page** 15 of 16

Validity 06.12.2017 to 05.12.2019 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
THERMAL CALIBRATION				
I.	TEMPERATURE			
1.	Temperature Gauge, Glass Thermometer, Dial Thermometer ^s	(-) 80°C to 40°C 40°C to 200°C	0.69°C 0.52°C	Using 6½ Digit Multimeter, RTD, Liquid Bath By Comparison Method
2.	Temperature Indicator/ Controller/ Recorder/Data logger with RTD or Thermocouples, RTD / Thermocouples, Temperature Transmitter ^s	(-) 80°C to 40°C 40°C to 400°C 400°C to 1000°C	0.4°C 0.5°C 2.3°C	Using 6½ Digit Multimeter, RTD, Wet/ Dry Bath By Comparison Method Using 6½ Digit Multimeter, R-Type Thermocouple, Fluid Less Temp. Bath, Muffle Furnace By Comparison Method
3.	Infrared Thermometer, Pyrometer, Laser Gun ^s	35°C to 400°C 400°C to 1000°C	1.63°C 3.69°C	Using Standard Pyrometer Laser Gun And Black Body Source By Comparison Method
4.	Temperature / Humidity Meter with Sensor, Temperature/ Humidity Indicator with Inbuilt Sensor, Data Logger, Thermo Hygrometer ^s	5°C to 50°C @≈ 50%RH 10% to 90%RH @≈25°C	0.83°C 1.38%RH	Using Temperature / Humidity Generator along with Temperature and Humidity Indicator By Comparison Method

Shally Sharma
Convenor

Avijit Das
Program Director



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5.	Temperature Indicator/ Controller/ Recorder/Data Logger with RTD or Thermocouples, Only RTD/ Thermocouples, Temperature Transmitter*	30°C to 400°C 400°C to 1000°C	0.5°C 3.51°C	Using RTD with Indicator, Dry Block Bath By Comparison Method Using R-Type Sensor with Indicator, Dry Block Bath by Comparison Method
6.	Indicator of Bath, Oven, Furnace, Chamber, Freezer, Incubator*	40°C to 200°C 200°C to 1000°C	1.65°C 3.46°C	Using RTD/R-Type Thermocouple with Temperature indicator by Single Position Calibration
7.	Bath, Oven, Furnace, Chamber, Freezer, Incubator, Room*	(-) 20°C to 50°C (-) 20°C to 300°C 300°C to 1000°C	0.95°C 3.0°C 5.6°C	Using RTD/ Thermocouple with Multi Channel or Wireless Data Logger By Multi Position Calibration
8..	Humidity Chamber, Environment Chamber*	20% to 90% RH @ \approx 25°C	2.1% RH	Using Wireless Data Loggers By Multi Position 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.

[°]Laboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.

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