



# National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



## SCOPE OF ACCREDITATION

**Laboratory** Prism Calibration Centre, F-101, 101 A, TF-94-98, Rudraksh Complex-II, Jashoda Nagar Cross Roads, Phase -III, GIDC, Vatva, Ahmedabad, Gujarat

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

**Certificate Number** CC-2480 (In lieu of C-0984, C-1039, C-1040) **Page** 12 of 14

**Validity** 26.11.2017 to 25.11.2019 **Last Amended on** 06.12.2017

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b>THERMAL CALIBRATION</b>				
<b>I. TEMPERATURE</b>				
1.	Temperature Sensor RTD / Thermocouple With or Without indicator/ Temperature Calibrator/ bath/Black Body / Thermometer With Sensor Temperature Gauge/ Recorder/Transmitter With Sensor / Temperature Switch/Digital Thermometer #	(-)30°C to 123°C 123°C to 300°C 300°C to 600°C 600°C to 1200°C	0.33°C 0.43°C 0.63°C 3.51°C	Using Master SSPRT, Master R / S Type Thermocouple with Advance Modular Calibrator & Dry Block Temperature Bath & Oil Bath
2.	Liquid In Glass Thermometer <sup>s</sup>	(-)30 °C to 123 °C 123 °C to 250°C	0.65 °C 0.66 °C	Using Master SSPRT with Advance Modular Calibrator Source Liquid Temperature Bath
3.	Infrared Temp. gun / Pyrometer/Thermal Imager/ IR Sensor #	50°C to 100°C 100°C to 500°C 500°C to 1200°C	2.64 °C 3.53 °C 4.66 °C	Using Black Body Source By Direct/Comparison Method

*Mohit*

Mohit Kaushik  
Convenor

*Avijit*

Avijit Das  
Program Director



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4	Indicator of Freezers/ Bath, Cold Chamber/Incubator/ Water Bath/ COD/ Autoclave/ Environment Chamber* (Single Position)	(-) 80 °C to 150°C	0.42 °C	Using Using SSPRT / RTD Sensor/ & Advance Modular Calibrator
5.	Indicator of Oven/ ETO/ BOD/Furnace / Environment Chamber* (Single Position)	150 °C to 600°C	0.57°C	Using SSPRT /RTD Sensor/ & Advance Modular Calibrator
6.	Indicator of Oven/ Muffle Furnace* (Single Position)	600°C to 1200°C	3.52°C	Using Master R /S Thermocouple Sensors / Advance Modular Calibrator
5.	Mapping of Freezers/ Bath Cold Chamber/ Refrigerators *	(-)80°C to 200°C	1.60°C	Using RTD Sensors/ Thermocouple Sensors (Multiposition) & Data Logger
6.	Mapping of DHS/Sterilizer/ Oven/ Water bath / ETO/COD -BOD Autoclave*	200°C to 600°C	3.36°C	
7.	Mapping of Oven/ Muffle Furnace*	600 °C to 1050°C	6.50 °C	

  
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II.	<b>SPECIFIC HEAT AND HUMIDITY</b>			
1.	RH Sensor / RH Indicator with Sensor /Dry & Wet Bulb Thermometer Thermohygrometer / RH Transmitter #	30% to 95% RH @ 25°C 20°C to 50°C @ 50% RH	1.24%RH @25°C 0.37°C@50%RH	Using Digital Hygrometer & Humidity Generator
2.	Environment Chambers/Humidity Chamber/ Generators/RH & Temperature*	30% to 85% RH @ 25°C 20°C to 50°C @ 50% RH	1.25 % RH@ 25°C 0.38°C @50% RH	Using Data loggers By mapping multi position


\* 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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