

**RECOMMENDED SCOPE OF ACCREDITATION  
(For Calibration Laboratory)**

**Assessment Report  
Form 73**

**LABORATORY:- PRISM CALIBRATION CENTRE(AHMEDABAD)GIDC  
Ahmedabad,(gujarat)**

Date(S) of Visit:- 03<sup>rd</sup> & 04<sup>th</sup> Oct. 2017

**Parameter(S): Thermal Calibration**

Quantity Measured / Instrument	Standard / Master Used	Range	Calibration Measurement Capability ± at CL 95.45% & k=2			Remarks
			Claimed By Laboratory (±)	Observed By Assessor(±)	Recommended By Assessor (±)	

**Location: Calibration at Permanent Lab**

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**Parameter: TEMPERATURE**

All type Temperature Sensor RTD, Thermocouple With or Without indicator/ Temperature Calibrator/ bath/Black Body /Thermometer With Sensor Temperature Gauge/ Recorder/Transmitter With Sensor /Digital Thermometer #	Master SSPRT, Master R/ S Type Thermocouple with Advance Modular Calibrator Sources :- Dry Block Temperature Bath & Oil Bath	-30°C to 123°C	0.29°C@-30°C 0.33°C@123°C	0.28°C@-30°C 0.30°C@123°C	0.33°C	By Comparison Method
		123°C to 300°C	0.40°C@ 300°C	0.43°C@ 300°C	0.43°C	By Comparison Method
		300°C to 600°C	0.49 °C@600°C	0.63°C@600°C	0.63°C	
		600°C to 1200°C	3.51 °C@ 1200°C	3.47°C@600°C	3.51	By Comparison Method
Liquid in glass thermometer \$	Master SSPRT with Advance Modular Calibrator Source :- Liquid Temperature Bath	-30 °C to 123 °C 123°C to 250°C	0.41°C @-30 °C to 250 °C	0.64°C@-30°C 0.65 @ 123°C 0.66@ 250°C	0.65°C 0.66°C	By Comparison Method
Infrared Temp. gun / Pyrometer/Thermal Imager/ IR Sensor#	Using Black Body Source	50-100°C / 100-500°C 500-1200°C	±2.64°C@50°C ±3.53°C@500°C ±4.00 °C@1200°C*	As per previous scope	2.64°C 3.53°C 4.66°C	By Direct Comparison Method IS 16168:2014/MSL TECH guide E22

**Humidity**

RH Sensor / RH Indicator with Sensor /Dry & Wet Bulb thermometer/Thermohygrometer / RH Transmitter #	Using Digital Hygrometer & Humidity Generator	30% to 95% RH @ 25°C 20°C to 50°C @ 50% RH	1.23 % RH@ 25°C 0.38°C @50% RH	1.23% RH @ 30%RH 1.24%RH @95% RH 0.37°C @ 20°C &50°C	1.24%RH @25°C 0.37°C @ 50%RH	Comparison Method
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For electrotechnical discipline; scope shall be recommended parameter wise (where applicable) and the ranges may be mentioned frequency wise.

ISO 143 shall be referred for recommended of CMC.

Scope shall also include whether the same scope is applicable for site calibration as well. NABL 130 shall be referred while recommending the scope of accreditation.

Site Calibration witnessed CMC will be recommended after based on calculation submitted from CAB.

Same scope is applicable for site calibration. However, Uncertainty at site is depends on the prevailing actual environmental condition & location.

Remarks: Only at site \$ Only Permanent laboratory

Signature and Name of Lab Representative <b>Mr. Parthiv Kinariwala</b>	Signature and Name of Assessor (S) <b>Mr. Vijaykumar Hingmire</b>	Signature and Name of Lead Assessor <b>Mr. Gautam Pal</b>
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**NABL Accreditation Board for Testing and Calibration Laboratories (File No. 31061)**

**Code: NABL 215 Assessment Forms and checklist (Based on ISO/IEC 17025:2005)**

Version: 05	Issue Date: 02.07.2012	Amend No: 00	Amend Date: -	Page No: 62/63
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Line(S): Thermal Calibration

Quantity Measured / Instrument	Standard / Master Used	Range	Calibration Measurement Capability ± at CL 95.45% & k=2			Remarks
			Claimed By Laboratory (±)	Observed By Assessor(±)	Recommended By Assessor (±)	

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Activity : Calibration Thermal

TEMPERATURE

Indicator of Freezers/ Bath, Cold Chamber/Incubator/ Water Bath/COD/Autoclave /Environment Chamber (Single Position)++	Using SSPRT /RTD Sensor/ & Advance Modular Calibrator	-80 to 150°C	0.42 °C@ -80°C to 150°C	As per Lab demo	0.42°C	Comparison method At specified Location
Indicator of OVEN/ ETO/ BOD/Furnace/Environment Chamber (Single Position)++		150 to 600°C	0.42°C @ 150°C 0.57°C @ 600°C	As per Lab demo	0.57°C	
Indicator of OVEN/ Muffle Furnace (Single Position)++	Master R/S Thermocouple Sensors /Advance Modular Calibrator	600 to 1200°C	0.57°C @ 600°C 3.52°C @ 1200°C	As per Lab demo	3.52°C	
Mapping of /Freezers/bath Cold Chamber/Refrigerators++	Using RTD Sensors/ Thermocouple Sensors (Multi position) & Data Logger	-80 to 200°C	1.54°C @ -80°C 1.60°C @ 200°C	1.58°C @ -80°C	1.60°C	By Mapping Method (Multi position)
Mapping of DHS/Sterilizer/ OVEN/ Water bath / ETO/COD -BOD Autoclave++		200 to 600°C	1.60°C @ 200°C 3.26°C @ 600°C	As per Lab demo	3.36°C	
Mapping of OVEN/ Muffle Furnace++		600 to 1050°C	3.26°C @ 600°C 4.82°C @ 1200°C	As per Lab demo	6.50°C	

Humidity

Environmental Chamber/ humidity chamber / Generators / RH & Temperature ++	Using Data Logger	30% to 85% RH @ 25°C 20°C to 50°C @ 50% RH	1.25 % RH@ 25°C 0.38°C @50% RH	As per Last scope	1.25 % RH@ 25°C 0.38°C @50% RH	By mapping Method Multi position
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Remarks Calibration witnessed CMC will be recommended after based on calculation submitted from CAB.

Remarks the same scope is applicable for site calibration. However, Uncertainty at site is depends on the prevailing actual environmental condition & error used.

Remarks Only at site \$ Only Permanent laboratory

<b>Sign and Name of Lab Representative</b> Mr. Parthiv Kinariwala	<b>Sign and Name of Assessor (S)</b> Mr. Vijaykumar Hingmire	<b>Sign and Name of Lead Assessor</b> Mr. Gautam Pal
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