National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)

SCOPE OF ACCREDITATION

Laboratory	**National Centre for Quality Calibration, 4 Abhishree Corporate Park, Iskcon Ambli Road, Ambli, Ahmedabad, Gujarat**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**CC-2128** *(in lieu of C-0146, C-0499, C-0502)*	**Page**	**20 of 22**
Validity	**27.03.2017 to 10.04.2018**	**Last Amended on**	**--**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	THERMAL CALIBRATION			
I.	**TEMPERATURE**			
1.	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Transducer, Transmitter[$]	(-) 80 °C to 50 °C	0.21 °C	Using RTD Sensor with 6 ½ DMM with, temperature bath by Comparison Method
2.	Liquid in glass Thermometer[$]	(-) 80 °C to 50 °C 50 °C to 250 °C	0.22 °C 0.63 °C	Using RTD Sensor with 6 ½ DMM, Low Temperature bath and Oil bath by Comparison Method
3.	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Transducer, Transmitter[#]	50 °C to 250 °C	0.60 °C	Using RTD Sensor with 6 ½ DMM with Oil bath by Comparison Method
4.	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Transducer, Transmitter[#]	250 °C to 1200 °C	3.9 °C	Using "S" type Thermocouple with 6 ½ DMM and dry Block Furnace by Comparison Method

Mohit Kaushik
Convenor

Avijit Das
Program Director

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
5.	Temperature Indicator with Sensor of Freezer, Incubator, Environmental Chamber / Rooms#	(-) 80 °C to 100 °C	0.71 °C	Using RTD Sensor with 6 ½ DMM (Single Position Calibration)
6.	Temperature Indicator with Sensor of Oven, Furnace, Chamber#	100 °C to 250 °C	0.65 °C	Using RTD Sensor with 6 ½ DMM (Single Position Calibration)
7.	Temperature Indicator with Sensor of Furnace#	250 °C to 1200 °C	3.6 °C	Using "S" type Thermocouples with 6 ½ DMM (Single Position Calibration)
8.	Calibration of Freezer, Incubator, Environmental Chambers and Room#	(-) 40 °C to 100 °C	3.7 °C	Using RTD Sensors (Minimum nine) with data logger (Multi Position Calibration)
9.	Calibration of Oven, Chambers, Furnaces#	100 °C to 250 °C	4.0 °C	Using RTD Sensors and K type thermocouples (Minimum nine) with data logger (Multi Position Calibration)
10.	Thermo–Hygrometer, Data logger, Humidity Transmitter, Dry and wet Bulb Thermometer, Humidity Meter with Sensor, Humidity Transmitter / Transducer#	10 % Rh to 95 % Rh At 25 °C	1.92 % Rh At 25 °C	Using Temperature and Humidity Indicator with Sensor and Humidity Generator with Chamber and Temperature and Humidity Calibrator by Comparison Calibration
		10 °C to 50 °C At 50 % Rh	0.64 °C At 50 % Rh	

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
11.	Data Logger with Inbuilt temperature Sensor # (Wireless type)	(-) 25 °C to 10 °C	0.60 °C	Using RTD Sensor with 6 ½ DMM and Temperature and Humidity Calibrator by Comparison Method
12.	Temperature Indicator with sensor of Liquid Bath, Dry Block Calibrator#	(-) 80 °C to 50 °C	0.71 °C	Using RTD sensor with 6 ½ DMM Single Position Calibration
		50 °C to 250 °C	0.18 °C	
		250 °C to 1200 °C	3.9 °C	Using "S" type Thermocouple with 6 ½ DMM (Single Position Calibration)
13.	Furnaces♣	250 °C to 1200 °C	6.4 °C	Using "K" Type Thermocouples (Minimum Nine) With Data Logger (Multi Position Calibration)
II.	**SPECIFIC HEAT & HUMIDITY**			
1.	Humidity and Temperature Indicator with sensor of Chamber, Generator♣	10 % Rh to 95 % Rh At 25 °C	1.9 % Rh At 25 °C	Using Temperature and humidity meter with Sensor (Single position calibration)
		0 °C to 50 °C At 50 % Rh	0.27 °C At 50 % Rh	
2.	Temperature and Humidity Chamber / Environmental Chamber♣	10 % Rh to 95 % Rh At 25 °C	10.4 % Rh At 25 °C	Using Temperature and humidity data loggers (Minimum nine) (Multi position calibration)

*** Measurement Capability is expressed as an uncertainty (±) 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.
Φ 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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