

Laboratory Unical Lab, 101, Shubh Mangal Avenue, National Highway No. 8, Nandawala, Gundlav Char Rasta, Valsad, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2775

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Validity 25.07.2018 to 24.07.2020

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>ELECTRO TECHNICAL CALIBRATION</u>				
I.	SOURCE			
1.	Temperature Simulation [#]			
	RTD (PT-100)	(-)200°C to 850°C	0.21°C	Using Multifunction Calibrator by Direct Method
	R Type Thermocouple	200°C to 1750°C	0.83°C	
	S Type Thermocouple	0°C to 1750°C	0.83°C	
	K Type Thermocouple	0°C to 1370°C	0.69°C	
	J Type Thermocouple	0°C to 760°C	0.68°C	
	E Type Thermocouple	(-)100°C to 1000°C	0.69°C	
	B Type Thermocouple	450°C to 1750°C	0.84°C	
	N Type Thermocouple	(-)200°C to 990°C	0.91°C	
	T Type Thermocouple	(-)160°C to 400°C	0.69°C	
2.	Stop Watch [#]	10 min to 15 hr	2.8 sec to 14.15 sec	Using Digital Stop Watch By Comparison Method
II.	MEASURE			
1.	Temperature Simulation [#]			
	RTD (PT-100)	(-)200°C to 850°C	0.21°C	Using Multifunction Calibrator by Direct Method
	R Type Thermocouple	200°C to 1750°C	0.84°C	
	S Type Thermocouple	0°C to 1750°C	0.84°C	
	K Type Thermocouple	0°C to 1370°C	0.73°C	
	J Type Thermocouple	0°C to 760°C	0.70°C	
	E Type Thermocouple	(-)100°C to 1000°C	0.70°C	
	B Type Thermocouple	450°C to 1750°C	0.84°C	
	N Type Thermocouple	(-)200°C to 1300°C	0.73°C	
	T Type Thermocouple	(-)160°C to 400°C	0.69°C	

Shally Sharma
Convenor

Anuja Anand
Program Manager

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<u>MECHANICAL CALIBRATION</u>				
I.	PRESSURE INDICATING DEVICES			
1.	Pressure-Pneumatic [#] (Digital & Analog) Vacuum Gauges Pressure Gauges	(-)0.9 to 0 bar(g) 0 to 30 bar (g)	0.6 kPa 0.9 kPa	Using Digital Compound Pressure Gauge By Comparison Method As per DKD-R 6-1 & 2.
2.	Pressure-Pneumatic Pressure / Manometer, Magnehelic Gauge [#] (Digital & Analog)	0 to 20 mbar (g)	1.7 Pa	Using Digital Pressure Calibrator By Comparison Method As per DKD-R 6-1.
3.	Pressure-Hydraulic Pressure Gauges [#] (Digital & Analog)	0 to 350 bar (g)	17.0 kPa	Using Digital Pressure Gauge By Comparison Method As per DKD-R 6-1.

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<u>THERMAL CALIBRATION</u>				
I.	TEMPERATURE			
1.	RTD, Thermocouple With & Without Indicator/Controller/Temp. Gauge [#]	50°C to 400°C	1.01°C	Using Temperature Indicator With Sensor by Comparison Method
2.	Temperature Indicator of equipments like Freezer, Cold Chamber, Oven, Environment Chamber, Liquid Bath, Dry Block Calibrator [*]	(-) 10°C to 400°C	1.2°C	Using Temperature Indicator With Sensor by Comparison Method Single Point Calibration
4.	Freezer, Refrigerator, Oven, Cold Chamber, Environment Chamber, Liquid Bath, Dry Block Calibrator [*]	(-) 10°C to 230°C	4.4°C	Using Multichannel Data logger With "T" Type Thermocouples by Direct Method Multi Point Calibration
5.	Stability Chamber / Humidity Generator [*]	30%RH to 80%RH ~ @ 25°C	10.8 % RH	Using Wireless Data loggers by Direct Method Multi Point 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.

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