

Laboratory Ray Engineering, Shop No. 7&8, 1st Floor, Plot No. 487, Vishal Chowk, G.I.D.C. Phase-2, Jamnagar, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2932 **Page** 1 of 3

Validity 21.1.2019 to 20.01.2021 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
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"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

MECHANICAL CALIBRATION				
I.	PRESSURE INDICATING DEVICES			
1.	Vacuum[#] (Dial, Digital Pressure Gauges/ Indicators, Indicator of Pressure Switch and Pressure Transmitter)	(-) 0.85 bar to 0 bar	0.0058 bar	Using Pneumatic Pump & Digital Pressure Calibrator based on DKD-R 6-1 and IS 3624
2.	Pressure-Pneumatic[#] (Dial, Digital Pressure Gauges/ Indicators, Indicator of Pressure Switch and Pressure Transmitter)	0 to 35 bar	0.013 bar	Using Pneumatic Pump & Digital Pressure Calibrator based on DKD-R 6-1 and IS 3624
3.	Pressure-Hydraulic[#] (Dial, Digital Pressure Gauges/ Indicators, Indicator of Pressure Switch and Pressure Transmitter)	0 to 700 bar	0.22 bar	Using Hydraulic Comparator & Digital Pressure Calibrator based on DKD-R 6-1 and IS 3624
II.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Calipers ^s (Dial/Digital/Vernier) L.C.: 0.01 mm	0 to 600 mm	13 μ m	Using Caliper Checker
2.	Height Gauges ^s (Dial/Digital/Vernier) L.C.: 0.01 mm	0 to 600 mm	13 μ m	Using Caliper Checker

Shally Sharma
Convenor

Avijit Das
Program Manager

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3.	Depth Gauges ^s (Dial/Digital/Vernier) L.C.: 0.01 mm	0 to 300 mm	13 μ m	Using Caliper Checker & Slip Gauge Set
4.	Micrometers ^s (External) L.C.: 0.01 mm	0 to 150 mm	8 μ m	Using Slip Gauge Set
5.	Steel Scale ^s L.C.: 1 mm	0 to 1000 mm	338 μ m	Using Steel Tape Calibrator
6.	Plunger Dial Gauge ^s L.C.: 0.01 mm	0 to 25 mm	8 μ m	Using Micrometer Head

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THERMAL CALIBRATION

<u>THERMAL CALIBRATION</u>				
I.	TEMPERATURE			
1.	RTD, Thermocouple with and without Indicators, Temperature Transmitters [#]	(-)10°C to 100°C 100°C to 600°C	0.55°C 0.64°C	Using RTD PT-100 & Multifunction Calibrator & Dry Block Temperature Bath by Comparison Method
2.	Thermocouple with and without Indicators, Temperature Transmitters [#]	600°C to 1100°C	2.2°C	Using Thermocouple S-type & Multifunction Calibrator & Dry block Temperature Bath by Comparison method
3.	Temperature Indicator of Temperature Bath and Oven [#]	(-)10°C to 600°C	0.64°C	Using RTD PT-100 & Multifunction Calibrator by Comparison Method
		600°C to 1100°C	2.2°C	Using Thermocouple S-Type & Multifunction Calibrator by Comparison Method

* 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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