

Laboratory

Shree Trading Company, Calibration Division, Saturna, Badnera Road, Amravati, Maharashtra

Accreditation Standard

ISO/IEC 17025: 2017

Certificate Number

CC-2192

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Validity

03.12.2018 to 02.12.2020

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)				
1.	Vernier Caliper ^s L.C.: 0.01 mm	0 to 300 mm	11.4 μ m	Using Caliper Checker By Comparison Method
2.	Micrometer ^s L.C.: 0.001 mm L.C.: 0.01 mm	0 to 25 mm 0 to 100 mm	1.35 μ m 6 μ m	Using Slip Gauge Set By Comparison Method
3.	Height Gauge ^s L.C.: 0.02 mm	0 to 300 mm	15 μ m	Using Caliper Checker By Comparison Method
4.	Feeler Gauge ^s	Upto 1 mm	2 μ m	Using Micrometer By Comparison Method
5.	Snap Gauge ^s	Upto 50 mm	1.19 μ m	Using Slip Gauge Set By Comparison Method
6.	Fine Sieves ^s	38 μ m to 2 mm	4.7 μ m	Using Profiloscope Universal Microscope With Software
7.	Sieves [#]	2.36 mm to 125 mm	20 μ m	Using Digital Vernier Caliper By Comparison Method
II. PRESSURE INDICATING DEVICES				
1.	Digital/Analogue Pressure Gauges [#]	0 to 100 kg/cm ²	0.15 %	Using Digital Pressure Gauge & Pressure Comparator By Comparison Method

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Avijit Das
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III.	UTM, TENSION CREEP AND TORSION TESTING MACHINE			
1.	Uniaxial Static Testing Machines (UTM, CTM, TTM)* Compression Tension	200 N to 2000 KN 250 N to 400 KN	0.29 % 0.46 %	Using Force Proving Instruments
IV.	VOLUME			
1.	Glassware Measuring Cylinder/ Jar, Volumetric Flask, Beaker, Glass Pipette, Dispenser & Burette [§]	1 ml to 50 ml 50 ml to 200 ml 100 ml to 200 ml 200 ml to 1000 ml	17 μ l to 25 μ l 17 μ l to 25 μ L 17 μ L to 25 μ L 30 μ L to 50 μ L	Using Digital Balance with F1 Class Weight (Gravimetric Method)
2.	Micro Pipette [§]	100 μ L to 1000 μ L	17 μ L to 25 μ L	Using Digital Balance with F1 Class Weight (Gravimetric Method)
V.	WEIGHING SCALE AND BALANCE			
1.	Weighing Balance* Readability 0.1 mg 0.01 g 0.1 g 0.5 g	0 to 200g 200 g to 2 kg 2 kg to 10 kg 10 kg to 30 kg	0.15 mg 0.05 g 0.2 g 0.8 g	Using F1 Class Weights as per OIML-R-76
VI.	WEIGHTS			
1.	Mass (Weights) [§] Using F2 & Coarser	1 mg 2 mg 5 mg 10 mg 20 mg	0.16 mg 0.15 mg 0.091 mg 0.16mg 0.14 mg	Using F1 Class Weights & Weighing Balance as per Readability 0.1mg

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		50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g	0.16 mg 0.15 mg 0.15 mg 0.15 mg 0.15 mg 0.14 mg 0.17 mg 0.15 mg 0.16 mg 0.16 mg 0.16 mg 0.19 mg	
		500 g 1 kg 2 kg	10.71 mg 12 mg 15 mg	Using F1 Class Weights & Weighing Balance as per Readability 0.01g
		5 kg 10 kg	0.14 g 0.17 g	Using F1 Class Weights & Weighing Balance as per Readability 0.1g
		20 kg	0.6 g	Using F1 Class Weights & Weighing Balance as per Readability 0.5g

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<u>THERMAL CALIBRATION</u>				
1.	TEMPERATURE			
1.	Indicator/Oven/ Water Bath/Furnace BOD/Temperature Controller Indicator*	5 °C to 50 °C	0.48 °C	Using Process Calibrator, RTD by Comparison Method Single Position
2.	Digital Temperature Controller/Indicator/ Oven/BOD Incubator (for Non-Medical Applications)/ Furnace *	50 °C to 300 °C	1.50 °C	Using Process Calibrator, RTD, Thermocouple S-Type by Comparison Method Single Position
3.	Thermometer, RTD Sensors with or without Indicator*	50 °C to 250 °C	1.40 °C	Using RTD (Pt-100) Using Process Calibrator, Using Oil Bath
4.	Digital Temperature Controller/Indicator/ Oven/Furnace Single Position*	300 °C to 1100 °C	3.44 °C	Using Process Calibrator, RTD, Thermocouple S-Type by Comparison Method Single Position
5.	Thermometer, RTD/ Thermocouple/ Sensors with or without Indicator*	300 °C to 1100 °C	3.44 °C	Using Process Calibrator, RTD, Thermocouple S-Type, Dry Block Bath
6.	Calibration of Liquid in Glass Thermometer, RTD Sensors	(-) 20 °C to 50 °C	0.64 °C	Using RTD (Pt-100) & Dual Display 5½ Digital Multimeter Using Low Temp. Liquid Bath by

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
	with or without Indicator Data Logger/ Digital Thermometer [§]			Comparison method
7.	Calibration of Liquid in Glass Thermometer, RTD Sensors with or without Indicator Data Logger/ Digital Thermometer [§]	50 °C to 250 °C	0.72 °C	Using RTD (Pt-100) & Dual Display 5½ Digital Multimeter Using Silicon Oil Bath
8.	Calibration of RTD/Thermocouple Sensor with or without Indicator or Data Logger Digital Thermometer [§]	250 °C to 1100 °C	2.88 °C	Using RTD (Pt-100), Dual Display 5½ Digital Multimeter & S-Type Thermocouple, and Dry Block Bath 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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