

Laboratory Trio Metrological Laboratory, B-101,106,109, Vora Plaza, Navghar, Vasai Road (East), Dist. Palghar, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2289

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Validity 16.06.2018 to 15.06.2020

Last Amended on 25.07.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Dial Gauge Length - Lever Type L.C. 0.01 mm	0 to 0.8 mm	9.67 μ m	Using Height Micrometer
2.	Dial Gauge Length - Plunger Type L.C. 0.01 mm	0 to 10 mm	7.2 μ m	Using Height Micrometer
3.	External Micrometer L.C. 0.001 mm L.C. 0.01 mm	0 to 100 mm 0 to 150 mm	2.60 μ m 7.40 μ m	Using Slip Gauge Block & Optical Flat
4.	Vernier Caliper L.C. 0.01 mm L.C. 0.02 mm	Upto 300 mm Upto 600 mm	12.40 μ m 19.60 μ m	Using Caliper Checker
5.	Micrometer Setting Rod	Upto 125 mm	6.0 μ m	Using Slip Gauge Block & Optical Flat
6.	Length-External Micrometer L.C. 0.01 mm	150 mm to 300 mm	8.8 μ m	Using Slip Gauge Block & Optical Flat
7.	Length-Depth Micrometer L.C. 0.01 mm	0 to 300 mm	12.5 μ m	Using Riser Block & Slip Gauge Block

Abhinav Thakur
Convenor

Avijit Das
Program Director

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
8.	Length–Depth Caliper (Dial / Vernier) L.C. :- 0.02 mm	0 to 300 mm	18.0 μ m	Using Riser block & Slip gauge block
9.	Length– Vernier Height Gauge L.C. :- 0.02 mm	0 to 600 mm	18.5 μ m	Using Caliper Checker, Slip Gauge Block
10.	Length–Micrometer Setting Rod	25 mm to 300 mm	4.2 μ m	Using LMM
11.	Length–Internal Micrometer (Stick Type) L.C. :- 0.010 mm Extension Rod	Upto 275 mm	11.6 μ m	Using Height Micrometer
12.	Length–Lever Dial L.C. :- 0.001 mm	Upto 0.20 mm	1.42 μ m	Using LMM
13.	Length–Plunger Dial L.C.:-0.001 mm	Upto 1 mm	1.42 μ m	Using LMM
14.	Length–Bore Gauges	Upto 1 mm	1.9 μ m	Using LMM
15.	Dia. - Plain Plug Gauges	Upto 100 mm	3.3 μ m	Using LMM
16.	Setting / Plain Ring Gauges Dia.	Upto 100 mm	2.3 μ m	Using LMM

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
17.	Thread Plug Gauge Eff. Dia.	Upto M100 mm	3.4 μ m	Using LMM & Thread Measuring Wire
18.	Thread Ring Gauge Eff. Dia.	Upto M100 mm & Pitch upto 2 mm	2.8 μ m	Using LMM & Master Setting Ring
19.	Feeler Gauge	0.01mm to 1 mm	3.0 μ m	Using External Micrometer
20.	Snap Gauge	Upto 150 mm	3.3 μ m	Using LMM
21.	Radius Gauge	Upto 15 mm	16.0 μ m	Using Profile Projector
22.	Measuring Scale	Upto 1000 mm	119.0 μ m	Using Measuring Scale and Tape Machine
23.	Measuring Tape	Upto 10000 mm	119 \sqrt{L} μ m L in Mtr.	Using Measuring Scale and Tape Machine
24.	Test Sieves	38 μ m to 4.0 mm	13 μ m	Using Profile Projector
II.	PRESSURE INDICATING DEVICES			
1.	Pressure Gauge [#]	0 kg/cm ² to 250 kg/cm ²	1.23 kg/cm ²	Using Digital Pressure indicator as per DKD R-6-1 By Comparison Method
2.	Vacuum Gauge [#]	(-)0.9 bar to 0 bar	0.010 bar	Using Digital Pressure indicator as per DKD R-6-1 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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