

Laboratory Orient Equipment & Services Calibration Centre, No. 97, Sastri Road,
 Ram Nagar, Coimbatore, Tamil Nadu
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number CC-2154 **Page** 1 of 4
Validity 22.04.2018 to 21.04.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
<u>MECHANICAL CALIBRATION</u>				
1.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Calipers ^s (Vernier/Digital/Dial) L.C.: 0.01 mm	Upto 300 mm 300 mm to 600 mm	9.0 μ m 12.6 μ m	Using Gauge Blocks/ Long Gauge Blocks
2.	Height Gauge ^s (vernier/Digital/Dial) L.C.: 0.01 mm	Upto 300 mm 300 mm to 600 mm	9.5 μ m 13.5 μ m	Using Gauge Blocks/ Long Gauge Blocks
3.	Depth Gauge ^s (vernier/Digital/Dial) L.C.: 0.01 mm	Upto 300 mm	9.8 μ m	Using Gauge Blocks/ Long Gauge Blocks
4.	External Micrometer ^s L.C.: 0.001 mm L.C.: 0.01 mm	Upto 100 mm 100 mm to 300 mm 300 mm to 600 mm	2.5 μ m 4.0 μ m 9.5 μ m	Using Gauge Blocks/ Long Gauge Blocks
5.	Internal/Stick Micrometer ^s L.C.: 0.01 mm	Upto 200 mm 200 mm to 500 mm	7.0 μ m 9.0 μ m	Using Gauge Blocks
6.	Depth Micrometer ^s L.C.: 0.01mm	Upto 300 mm	9.5 μ m	Using Gauge Blocks/ Long Gauge Blocks
7.	Dial Gauge ^s (Plunger/digital) L.C.: 0.001 mm L.C.: 0.01 mm	Upto 12 mm Upto 50 mm	2.0 μ m 5.9 μ m	Using ULM

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8.	Lever Dial Gauges ^{\$} L.C.: 0.001 mm L.C.: 0.01 mm	Upto 0.2 mm Upto 2 mm	2.0 μ m 3.1 μ m	Using ULM
9.	Dial bore Gauge ^{\$} (Transmission Error) L.C.: 0.001 mm	Upto 1 mm	2.0 μ m	Using ULM
10.	Dial Thickness Gauge ^{\$} L.C.: 0.01 mm	Upto 25 mm	6.7 μ m	Using ULM / Slip Gauge
11.	Snap Gauges/Gap Gauge ^{\$}	2 mm to 100 mm	2.5 μ m	Using ULM
12.	Feeler Gauge ^{\$}	0.05 mm to 1 mm	3.0 μ m	Using ULM
13.	Coating Thickness Foils ^{\$}	0.01mm to 2 mm	3.3 μ m	Using ULM
14.	Cylinder Measuring Pins/Wires ^{\$} (Grade 2)	0.1 mm to 20 mm	1.5 μ m	Using ULM
15.	Micrometer Setting Rods ^{\$}	25 mm to 100 mm >100 mm to 200 mm >200 mm to 300 mm	3.4 μ m 3.6 μ m 5.2 μ m	Using Long Gauge Blocks/ Electronic Height Master
16.	Plain Plug Gauge ^{\$}	3 mm to 100 mm 100 mm to 200 mm	1.8 μ m 2.6 μ m	Using ULM
17.	Plain / Setting Ring Gauge ^{\$}	8 mm to 100 mm 100 mm to 200 mm	3.0 μ m 3.5 μ m	Using ULM & Master Ring gauge
18.	Thread Plug Gauge ^{\$}	3 mm to 100 mm	2.7 μ m	Using ULM

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19.	Pistol Caliper ^s L.C.: 0.1 mm	Upto 150 mm	63.6 μ m	Using Gauge Blocks
20.	Inside / Groove Dial Gauge ^s L.C.: 0.01mm	Upto 50 mm	3.5 μ m	Using ULM
21.	Pitch Gauge ^s	0.4 mm to 6 mm	6.0 μ m	Using Profile Projector
22.	Radius Gauge ^s	0.6 mm to 25 mm	8.0 μ m	Using Profile Projector
23.	Taper Plug Gauge ^s	2.5 mm to 100 mm	3.0 μ m	Using ULM
24.	Steel Scale ^s	Upto 600 mm	60 $\sqrt{L/100}$ (L in mm)	Using Profile Projector
25.	Hook Depth Gauge ^s L.C.: 0.01 mm	Upto 300 mm	14.0 μ m	Using Gauge Blocks
26.	Bevel Protractor/ Combination Set ^s L.C.: 5' of Arc	0 to 360 °	8.4 min. of arc	Using Profile Projector
27.	Universal Length Measuring System [*] L.C.: 0.0001 mm	Upto 100 mm	0.7 μ m	Using Gauge Blocks

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II.	PRESSURE INDICATING DEVICES			
1.	Hydraulic Digital / Analogue Pressure Gauges, Pressure Indicator With Transducer [#]	0 to 200 kg/cm ² 0 to 700 kg/cm ²	0.67 % rdg 0.88 % rdg	Using Digital Pressure Calibrator & Hydraulic (Oil Based) Comparator Pump

* Measurement Capability is expressed as an uncertainty ($\pm$) at a confidence probability of 95%

^s 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.