

Laboratory R.P. Calibration Laboratory, No. 26, First Floor, Kuppu Swamy Street,  
Balaji Nagar, Padi, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2651

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Validity 26.04.2018 to 25.04.2020

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>MECHANICAL CALIBRATION</u></b>				
<b>1.</b>	<b>DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>			
1.	Calipers <sup>§</sup> (Vernier / Digital / Dial) L.C.: 0.01 mm	0 to 1000 mm	16 $\mu$ m	Using Caliper Checker by Comparison Method
2.	Depth Vernier <sup>§</sup> L.C.: 0.01 mm	0 to 300 mm	8.8 $\mu$ m	Using Depth Microchecker by Comparison Method
3.	Height Gauge <sup>§</sup> (Dial/Digital /Analog) L.C.: 0.01 mm	0 to 600 mm	13.0 $\mu$ m	Using Caliper Checker / Slip Gauge by Comparison Method
4.	External Micrometer <sup>§</sup> L.C.: 0.001 mm L.C.: 0.01 mm	0 to 100 mm 100 mm to 600 mm	1.4 $\mu$ m 9.6 $\mu$ m	Using Micrometer Check Set , Long Gauge Block Set by Comparison Method
5.	Micrometer Setting Standard <sup>§</sup>	25 mm to 475 mm	6.0 $\mu$ m	Using Gauge Block Set / Electronic Comparator by Comparison Method
6.	Depth Micrometer <sup>§</sup> L.C.: 0.001 mm	0 to 300	6 $\mu$ m	Using Depth Microchecker by Comparison Method

**Shally Sharma**  
Convenor

**Avijit Das**  
Program Director

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7.	Internal Micrometer <sup>§</sup> L.C.: 0.01 mm Head Overall Length	50 mm to 63 mm Up to 1000mm	5.6 $\mu$ m 18 $\mu$ m	Using Gauge Block Set , Electronic Probe by Comparison Method
8.	Dial Snap Gauge <sup>§</sup>	Up to 300 mm	4.8 $\mu$ m	Using Gauge Block Set by Comparison Method
9.	Three Point Micrometer <sup>§</sup> L.C.: 0.001 mm	20 mm to 40 mm	2.2 $\mu$ m	Using Setting Ring Gauge Set by Comparison Method
10.	Electronic Probe <sup>§</sup> L.C.: 0.001 mm	0 to 5 mm	1 $\mu$ m	Using LMM 300 by Comparison Method
11.	Plunger Dial Gauge <sup>§</sup> L.C.: 0.001 mm L.C.: 0.01 mm	0 to 25 mm 0 to 50 mm	1 $\mu$ m 5.9 $\mu$ m	Using LMM 300 by Comparison Method
12.	Lever Dial Gauge <sup>§</sup> L.C.: 0.001 mm L.C.: 0.002 mm L.C.: 0.01 mm	0 to 0.14 mm 0 to 0.2 mm 0 to 0.8 mm	1 $\mu$ m 1.4 $\mu$ m 6 $\mu$ m	Using LMM 300 by Comparison Method
13.	Bore Gauge <sup>§</sup> (Transmission Error ) L.C. 0.001 mm	Up to 1 mm	2.7 $\mu$ m	Using LMM 300 by Comparison Method

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14.	Groove Dial Gauge/ External Dial Caliper Gauge <sup>s</sup> L.C. 0.01 mm	5 mm to 100 mm	8.1 $\mu$ m	Using Slip Gauge Accessory, Slip Gauge Set by Comparison Method
15.	Dial Thickness Gauge <sup>s</sup> L.C. 0.001 mm	0 to 25 mm	1.6 $\mu$ m	Using Slip Gauge Set by Comparison Method
16.	Pistol Caliper <sup>s</sup> L.C. 0.1 mm	0 to 50 mm	58 $\mu$ m	Using Slip Gauge Set by Comparison Method
17.	Thread Measuring Wire Set <sup>s</sup>	0.170mm to 6.35 mm	0.8 $\mu$ m	Using LMM 300 by Comparison Method
18.	Measuring Pins <sup>s</sup>	Up to 20 mm	0.8 $\mu$ m	Using LMM 300 by Comparison Method
19.	Thickness Foils <sup>s</sup>	Up to 5 mm	0.8 $\mu$ m	Using LMM 300 by Comparison Method
20.	Feeler Gauge <sup>s</sup>	Up to 1 mm	2.4 $\mu$ m	Using Digital Micrometer by Comparison Method
21.	Snap Gauge <sup>s</sup>	3 mm to 200 mm	6.8 $\mu$ m	Using Slip Gauge Set by Comparison Method
22.	Plain Plug Gauge <sup>s</sup>	Up to 200 mm	4 $\mu$ m	Using LMM 300 by Comparison Method

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23.	Plain Ring Gauge <sup>§</sup>	3 mm to 200 mm	3.5 $\mu$ m	Using LMM 300 by Comparison Method
24.	Thread Plug Gauge <sup>§</sup>	3 mm to 200 mm	3.4 $\mu$ m	Using LMM 300, Thread Measuring Wire by Comparison Method
25.	Thread Ring Gauge <sup>§</sup> (Effective Diameter)	3 mm to 100 mm	2 $\mu$ m	Using LMM 300 , Master Ring Gauge by Comparison Method
26.	Taper Thread Plug Gauge <sup>§</sup>	3 mm to 100 mm	2.8 $\mu$ m	Using LMM 300 by Comparison Method
27.	Taper Thread Ring Gauge <sup>§</sup>	3mm to 100mm	2.8 $\mu$ m	Using LMM 300 by Comparison Method
28.	Flush Pin Gauge / Depth Gauge <sup>§</sup>	3mm to 300mm	6.2 $\mu$ m	Using Electronic Height Gauge by Comparison Method
29.	Taper Plug Gauge <sup>§</sup> Major Dia. Angle	2mm to 100 mm	8.1 $\mu$ m 15 min.	Using CMM by Comparison Method
30.	Taper Ring Gauge <sup>§</sup> Major Dia. Angle	2mm to 100mm	8.2 $\mu$ m 15 min.	Using CMM by Comparison Method
31.	Thread Pitch <sup>§</sup> Gauge (Pitch)	0.35mm to 7mm	6.80 $\mu$ m	Using Video Measuring Machine By Comparison Method

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32.	Radius Gauge <sup>§</sup>	Up to 25 mm	6.50 $\mu$ m	Using Video Measuring M/c
33.	Taper Scale <sup>§</sup>	1 mm to 45 mm	6.50 $\mu$ m	Using Video Measuring M/c by Comparison Method
34.	Weld Fillet Gauge <sup>§</sup> L.C. 0.1mm	0 to 25mm Up to 60°	6.5 $\mu$ m 2"	Using Video Measuring M/c by Comparison Method
35.	Test Sieves <sup>§</sup>	0.020 mm to 50 mm	6.50 $\mu$ m	Using Video measuring machine by Comparison Method
36.	Measuring Scale <sup>§</sup> L.C. 0.1mm	Up to 300mm	$350 \sqrt{\frac{L}{100}}$ $\mu$ m	Using Video measuring machine by Comparison Method
37.	Engineers Parallel <sup>§</sup>	300 mm x 600 mm	8.2 $\mu$ m	Using CMM
38.	Engineers Square / Granite Square <sup>§</sup>	300 mm x 300 mm	8.2 $\mu$ m	Using CMM by Comparison Method
39.	Angle Plate <sup>§</sup>	250mm x 175mm x 150 mm	8.2 $\mu$ m	Using CMM by Comparison Method
40.	Bevel Protractor / Combination Set <sup>§</sup>	0 - 90°/5 Min 0 - 180 / 1°	3 Min/ 35 Min	Using Video Measuring M/c by Comparison Method
41.	Coating Thickness Gauge <sup>§</sup>	Up to 2 mm	5 $\mu$ m	Using Thickness Foils by Comparison Method
42.	Surface Roughness Specimen <sup>§</sup>	Ra 3.0 $\mu$ m	7.3%	Using Surface Roughness Master & Tester by Comparison Method

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43.	Surface Roughness Tester <sup>§</sup>	Ra 3.0 $\mu$ m	7.4%	Using Surface Roughness Specimen by Comparison Method
44.	Electronic Height Gauge <sup>#</sup> L.C. 0.0001mm	0 to 600 mm 0 to 1000 mm	6.8 $\mu$ m 10.5 $\mu$ m	Using Long Slip Gauge Set by Comparison Method
45.	Surface Plate*	3000 mm X 3000mm	$3.0 \sqrt{\frac{L+W}{100}}$ L & W is in mm	Using Spirit Level by Comparison Method
46.	Height Gauge * (Dial /Digital /Analog ) L.C. 0.01 mm	0 to 600 mm	12.6 $\mu$ m	Using Long Slip Gauge by Comparison Method
48.	Profile Projector / Optical Microscope / Video Measuring M/c*  Linear L.C. 0.001mm  Magnification  Angular	0 to 300 mm  10 X to 100 X  0 - 360°	6.6 $\mu$ m  1.50% $\mu$ m  37 sec	Using Glass Scale  Using Glass Scale / Digital Caliper Using Angle Graticule by Comparison Method
49.	Length Measuring Machine*	Up to 100 mm	0.90 $\mu$ m	Using Slip Gauge Set by Comparison Method

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50.	Co-Ordinate Measuring Machine* L.C. 0.0001mm	(1000 x 1000 x 1000) mm	$4.2 + 11.3 \frac{L}{1000}$ L is in mm	Using Long Slip Gauge Set by Comparison Method
<b>II.</b>	<b>PRESSURE INDICATING DEVICES</b>			
1.	Vacuum# Pneumatic (Pressure gauge / Pressure Indicator / Pressure Calibrators / Pressure Switches / Pressure Transmitters/ Pressure Transducer/ Pressure Recorder)	(-)0.9 bar to 0 bar	0.56 % of rdg.	Using Digital Pressure Gauge & Pressure Calibrator
2.	Pressure# Pneumatic (Pressure gauge / Pressure Indicator / Pressure Calibrators / Pressure Switches / Pressure Transmitters / Pressure Transducer / Pressure Recorder)	0.25 bar to 2.5 bar	0.56 % of rdg.	Using Digital Pressure Gauge & Pressure Calibrator

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3.	Pressure# Hydraulic (Pressure gauge / Pressure Indicator / Pressure Calibrators / Pressure Switches / Pressure Transmitters/ Pressure Transducer/ Pressure Recorder)	2.5 bar to 25 bar 25 bar to 250 bar 40 bar to 400 bar 70 bar to 700 bar	0.187 % of rdg. 0.119 % of rdg. 0.075 % of rdg. 0.05 % of rdg.	Using Digital Pressure Gauge & Pressure Calibrator
III.	<b>TORQUE GENERATING DEVICES</b>			
1.	Torque Wrenches & Torque Screw Drivers\$ ( Type I & II)	1 Nm to 10 Nm 10 Nm to 50 Nm 50 Nm to 200 Nm 200 Nm to 1000 Nm	0.8% rdg. 0.4% rdg. 0.7% rdg. 1.2% rdg	Using Torque Transducers as per ISO 6789

\* 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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