

Laboratory Quality Instrument Services, Plot No. G-53, M.I.D.C. Gokul Shirgaon,  
Kolhapur, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2630

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Validity 22.03.2018 to 21.03.2020

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>MECHANICAL CALIBRATION</u></b>				
<b>I.</b>	<b>DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>			
1.	Plunger Type Dial Indicator <sup>s</sup> L.C. 0.001 mm	0 to 25 mm	3.8 $\mu$ m	Using Electronic Dial Calibration Tester
2.	Leaver Type Dial Indicator <sup>s</sup> L.C. 0.001 mm	0 to 1mm	3.0 $\mu$ m	Using Electronic Dial Calibration Tester
3.	Bore Gauge <sup>s</sup> (Only Transmission Error)	Up to 2.00mm	3.3 $\mu$ m	Using Electronic Dial Calibration Tester & Dial Indicator
4.	Extenal Micrometer <sup>s</sup> L.C 0.001mm L.C 0.01mm	0 to 100 mm 0 to 1000 mm	4.0 $\mu$ m 8.32 $\mu$ m	Using Micrometer Calibration Set, & Extra Long Slip Gauge set.
5.	Internal Micrometer <sup>s</sup> L.C.0.01	5mm to 600mm	8.46 $\mu$ m	Using ULM & Accessories & Extra Long Slip Gauge Set

**Dheeraj Chawla**  
Convenor

**Avijit Das**  
Program Director

**Laboratory**                      **Quality Instrument Services, Plot No. G-53, M.I.D.C. Gokul Shirgaon, Kolhapur, Maharashtra**

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6.	Vernier Caliper <sup>s</sup> ( Dial ,Digital ,Vernier) L.C 0.010mm	0 to600mm	12.0 $\mu$ m	Using Caliper Checker ,Slip Gauge Box (Grade K)
	L.C 0.020mm	0 to1500mm	20.0 $\mu$ m	Using Caliper Checker ,Slip Gauge Box (Grade K)
7.	Height Gauge <sup>s</sup> L.C 0.01 mm L.C 0.02 mm	0 to 600mm	16.0 $\mu$ m	Using Caliper Checker ,& Extra Long Slip Gauge Set.
		0 to1000mm	17.0 $\mu$ m	
8.	Depth Micrometer <sup>s</sup> L.C 0.001mm	0 to150mm	5.0 $\mu$ m	Using Slip Gauge Box (Grade K) & Extra Long Slip Gauge Set.
9.	Depth Vernier <sup>s</sup> L.C 0.01	0 to600mm	14.0 $\mu$ m	Using Slip Gauge Box (Grade K) & Extra long slip gauge set.
10.	Plain Plug Gauge / Width Gauge/ Paddle Gauge/Flush Pin Gauge <sup>s</sup>	1mm to150mm 150 mm to 300mm	3.0 $\mu$ m 4.0 $\mu$ m	Using Electronic Probe & DRO, Dial Gauge Stand, Slip Gauge Box, Extra Long Slip
11.	Micrometer Setting Rod/ Height Master/O.D.Master/ Setting Master <sup>s</sup>	0 to 150mm 150mm to 800mm	2.0 $\mu$ m 7.80 $\mu$ m	Using Electronic Probe & DRO, Dial Gauge Stand, Slip Gauge Box(Grade K)& Extra Long Slip
12.	Snap Gauge <sup>s</sup>	0 to 200mm 200mm to 500mm	2.5 $\mu$ m 3.5 $\mu$ m	Using Slip Gauge Box(Grade K)& Extra Long Slip

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13.	Pistol Caliper /Dial Thickness Gauge L.C. – 0.10 mm <sup>s</sup>	0 to 50mm	64.00 $\mu$ m	Using Slip Gauge Box(Grade K)
14.	Cylindrical Measuring Pin's/ Feeler Gauge/Thread Measuring Wire & Three Wire Unit /Foil's Of Coating Thickness Gauge <sup>s</sup>	0.17mm to 20.00mm	3.50 $\mu$ m	Using Electronic Probe & DRO, Dial Gauge Stand, Slip Gauge Box ( Grade K)
15.	Thread Plug Gauge <sup>s</sup> (Only Effective Dia.)	M3 to M300	2.4 $\mu$ m	Using Three wire Unit & ULM
16.	Thread Ring Gauge <sup>s</sup> (Only Effective Dia.)	M6-M100	3.3 $\mu$ m	Using Accessories & ULM
17.	Plain Ring Gauge <sup>s</sup>	3mm to 100mm 100mm to 380mm	3.3 $\mu$ m 3.4 $\mu$ m	Using Master Ring & ULM
18.	Bevel Protractor / Combination Set/ Degree Protector <sup>s</sup> L.C. - 5 minute	Upto 360 °	8.7 minute	Using Profile Projector
19.	Angle Templates <sup>s</sup> (Pitch Gauge)	Upto 90 °	9.2 minute	Using Profile Projector
20.	Radius Gauges <sup>s</sup>	Up to 25mm	22.0 $\mu$ m	Using Profile Projector IS 5273

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21.	Steel Rule <sup>s</sup>	0 to 1000 mm	119 $\mu$ m	Using Profile Projector
22.	Steel Rule/Measuring Tape/Fiber Glass Tape <sup>s</sup>	0 to 50M	119+ $\sqrt{(L)}$ L In M	Using Tape & scale Measuring Instrument IS 1481/IS 1259
23.	Comparator With Stand & Dial Comparator <sup>s</sup> L.C. 0.001 mm	Upto 200mm	2.4 $\mu$ m	Using Slip gauges by Comparison Method (IS 7599)
24.	Comparator Stand Flatness Of Working Table <sup>s</sup>	Upto 200 mm	1.3 $\mu$ m	Using Surface Plate Electronic Comparator IS 7522/IS 7599
25.	Dial Snap Gauge <sup>s</sup>	5mm to 200 mm	2.7 $\mu$ m	Using Slip gauges by Comparison Method (IS 14271)/Plunger Dial
26.	V-Block Parallelism, Symmetry, Squareness <sup>s</sup>	Upto 150 mm	5.3 $\mu$ m	Using Master Square Cylinder & Plunger Dial Gauge as per IS 2949
27.	Coating Thickness Gauge & Foil <sup>s</sup> (Thickness)	Up to 0.69mm	5.2 $\mu$ m	Using Master Coating Thickness Foils
28.	Two point Bore Gauge <sup>s</sup> Transmission Only	Upto 2.00mm	2.9 $\mu$ m	Using ULM & Master Dial

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29.	Inside Dial Caliper / Groove Caliper Transmission only <sup>§</sup>	Upto 1.5mm	16.0 $\mu$ m	Using Slip Gauges by Comparison Method
30.	Surface Roughness Tester <sup>§</sup>	Up to Ra @ 6.37 $\mu$ m	6.8%	Using Master Specimen
31.	Surface Roughness Specimen <sup>§</sup>	Up to Ra @ 6.37 $\mu$ m	12.2%	Using Portable Surface Roughness Tester
32.	Electronic Dial Tester <sup>§</sup> L.C.0.1 $\mu$ m	0 to 25 mm	1.7 $\mu$ m	Using Electronic Probe & Slip Gauge ( K Garad)
33.	Dial Tester <sup>§</sup>	0 to 25 mm	1.7 $\mu$ m	Using Probe
37.	Electronic Probe <sup>§</sup> L.C.0.1 $\mu$ m	Up to 25mm	1.2 $\mu$ m	Using Slip Gauges
39.	Cast Iron Granite Angle Plate & Box Cast Iron Angel Plate, Engineering Square <sup>§</sup> (for flatness & parallelism, Squareness)	L-500 , W-500,H-500	9.4 $\mu$ m	Using plunger dial & square master
40.	Bench Center <sup>§</sup> (for co - axially parameter parallity)	Upto 300 mm	3.8 $\mu$ m	Using ISO MANDRIL Plunger Dial Master (Parallel & Tapper Mandril)
41.	Thread Plug Gauge <sup>§</sup> (Taper)	Upto 50mm	5.0 $\mu$ m	Using Two wire unit & ULM

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42.	Tape & Scale calibrator Machine <sup>§</sup> L.C.0.001 mm	Upto 1000mm	38.0 $\mu$ m	Using Extra long Slip Gauge
43	Surface Plate <sup>§</sup>	2500mm x2500mm	$3.30\sqrt{(L+W)/100}$ L&W In M	Using Spirit Laval 10 $\mu$ m/m
44.	Electronic Height Gauge <sup>§</sup> L.C. 0.0001	0 to 600mm	6.0 $\mu$ m	Using Extra long Slip Gauge
45.	Straight Edge <sup>§</sup> (Straightness)	Up to 1000mm	9.4 $\mu$ m	Using Slip Gauge & Surface Plate
46	Profile Projector/OpticalMicro scope/Tool makers microscope <sup>#</sup> LC 0.001, 1 sec	Up to 300 mm Up to 360°	19.9 $\mu$ m 6.5' of arc	Using Linear Glass Scale, Round glass graticule
<b>II.</b>	<b>PRESSURE INDICATING DEVICES</b>			
1.	Analogue Pressure Gauge <sup>§</sup> (Pneumatic)	0 to 20 bar	0.08 bar	Using Digital Pressure Gauge & Test pump as per IS 3624
2.	Analogue Pressure Gauge <sup>§</sup> (Hydraulic)	0 to 600 bar	4.68 bar	Using DMM as per IS 3624 DKD R6-1 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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