

**Laboratory** Ideal Instruments, 8/7, Shanti Nagar, Landewadi, Bhosari, Pune, Maharashtra  
Location 1: 8/7, Shanti Nagar, Landewadi, Bhosari, Pune, Maharashtra  
Location 2: S. No. 62/1, Building No. A-6, Flat No. 8, Morya Nagari, Kondhwa Bk., Pune, Maharashtra

**Accreditation Standard** ISO/IEC 17025: 2005

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**Validity** 18.05.2018 to 17.05.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
<b><u>MECHANICAL CALIBRATION</u></b>				
<b>LOCATION : 1</b>				
<b>I.</b>	<b>DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>			
<b>1.</b>	Calipers <sup>s</sup> L.C.: 0.01 mm	Up to 600 mm Up to 1000 mm	13 $\mu$ m 20 $\mu$ m	Using Caliper Checker/ Long Slip Gauge by Comparison Method IS 3651(Part-II) 1985
<b>2.</b>	Height Gauge <sup>s</sup> L.C.: 0.01 mm	0 to 600 mm 0 to 1000 mm	17 $\mu$ m 18 $\mu$ m	Using Caliper Checker/ Long Slip Gauge by Comparison Method IS 2921
<b>3.</b>	Depth Gauge <sup>s</sup> L.C.: 0.01 mm	0 to 300 mm	17 $\mu$ m	Using Caliper Checker & Slip Gauge by Comparison Method IS 4213
<b>4.</b>	External Micrometer <sup>s</sup> L.C.: 0.001 mm	Up to 50 mm 50 mm to 300 mm	1.8 $\mu$ m 3.3 $\mu$ m	Using Slip Gauges by Comparison Method IS 2967
<b>5.</b>	Micrometer Setting Rods <sup>s</sup>	Up to 125 mm >125 mm to 275 mm	1.8 $\mu$ m 5.0 $\mu$ m	Using Slip Gauges & Electronic Probe by Comparison Method IS 3179
<b>6.</b>	Depth Micrometer <sup>s</sup> L.C.: 0.001 mm	Up to 300 mm	5.5 $\mu$ m	Using Slip Gauges by Comparison IS 2967

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
7.	Dial Gauge <sup>s</sup> All Plunger Type L.C.: 0.001	0 to 10 mm 0 to 50 mm	3.2 $\mu$ m 3.4 $\mu$ m	Using Dial Calibration Tester, Slip Gauges comparator Stand by Comparison Method IS 2092
8.	Dial Gauge <sup>s</sup> All Lever Type L.C.: 0.001	Up to 2 mm	2 $\mu$ m	Using Dial Calibration Tester by Comparison Method IS 11498
9.	Bore Gauge <sup>s</sup> (For Transmission)	Up to 2 mm	3.9 $\mu$ m	Using Dial Calibration Tester by Comparison Method
10.	Dial Thickness Gauge <sup>s</sup> L.C.: 0.001	Up to 25 mm	2.0 $\mu$ m	Using Slip Gauges by Comparison Method IS 2092
11.	Plain Plug Gauges <sup>s</sup> OD Master / Height Gauge	Up to 60 mm >60 mm to 300 mm	3.0 $\mu$ m 5.8 $\mu$ m	Using Slip Gauges & Electronic Probe by Comparison Method IS 3455
12.	Measuring Pins <sup>s</sup>	Up to 60 mm	1.2 $\mu$ m	Using Slip Gauges & Electronic Probe by Comparison Method IS 11103
13.	Thread Measuring Wire <sup>s</sup>	0.17 mm to 6.35 mm	1.1 $\mu$ m	Using Slip Gauges & Electronic Probe by Comparison Method IS 6311

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14.	Snap Gauges <sup>s</sup>	Up to 150 mm >150 mm to 300 mm	2.0 $\mu$ m 4.5 $\mu$ m	Using Slip Gauges by Comparison Method IS 3455
15.	Dial Snap Gauge <sup>s</sup>	Up to 200 mm	3.0 $\mu$ m	Using Slip Gauges by Comparison Method IS 14271
16.	Dial Calibration Tester <sup>s</sup> Analog/Digital/ Electronic	Up to 25 mm	1.1 $\mu$ m	Using Slip Gauges & Electronic Probe by Comparison Method Comparison IS 9463
17.	Bevel Protractor <sup>s</sup> Angle Protractor L.C.: 5'	0 to 360 °	4 min.	Using Angle Gauges by Comparison Method IS 4239
18.	Combination Square Set <sup>s</sup> L.C.: 5°	0 to 360 °	35 min.	Using Angle Gauges by Comparison Method IS 4239
19.	Thread Plug Gauge <sup>s</sup>	Up to 100 mm	4.5 $\mu$ m	Using FCDM with Electronic Probe Cylindrical Setting Master & Thread Measuring Wires by Comparison Method IS-2334, IS- 4218, IS-14962
20.	Taper Thread Plug Gauge <sup>s</sup>	Up to 100 mm	5.3 $\mu$ m	Using FCDM with Electronic Probe Cylindrical Setting Master & Thread

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ( $\pm$ )	Remarks
				Measuring Wires by Comparison Method ANSI/ASME B1 205 IS 8999 IS 9121
21.	Internal Caliper <sup>\$</sup> L.C.: 10 $\mu$ m	Up to 200 mm	7.0 $\mu$ m	Using Slip Gauges by Comparison Method
22.	Feeler Gauge/ Coating Thickness Foil (Shims) <sup>\$</sup>	Up to 1 mm	3.0 $\mu$ m	Using Digital Micrometer by Comparison Method IS 3179
23.	Coating Thickness Gauge <sup>\$</sup>	0 to 1000 $\mu$ m	5.0 $\mu$ m	Using Coating Thickness Foils by Comparison Method IS 3179
24.	Comparator Stand <sup>\$</sup> (Only Flatness)	Up to 100 mm >100 mm to 300 mm	1.6 $\mu$ m 2.5 $\mu$ m	Using Electronic Probe by Comparison Method IS 7599
25.	Pistol Caliper <sup>\$</sup> L.C.: 0.01 mm	Up to 50 mm	71.0 $\mu$ m	Using Slip Gauges by Comparison Method IS 2092
26.	V-Block <sup>\$</sup> Parallelism, Squareness, Symmetry	Up to 150 mm	9.6 $\mu$ m	Using Mandrels, Surface Plate & Plunger Dial by Comparison Method IS – 2948/IS-2103
27.	Surface Roughness Tester <sup>\$</sup>	Ra up to 3 $\mu$ m R max, Rz: Up to 10 $\mu$ m	8.8 %	Using Surface Roughness Master by Comparison Method

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28.	Spirit Level <sup>s</sup> L.C.: 10 $\mu$ m/mtr.	$\pm$ 120 $\mu$ m/mtr.	9.7 $\mu$ m/mtr.	Using Electronic Probe by Comparison Method IS 5706
29.	Angle Plate <sup>s</sup> Parallelism, Squareness	Up to 300 mm	5.0 $\mu$ m 11.0 $\mu$ m	Using Surface Plate & Plunger Dial by Comparison Method IS-4960, 6232
30.	Engineers Square <sup>s</sup> Parallelism Squareness	Up to 300 mm	5.0 $\mu$ m 11.0 $\mu$ m	Using Surface Plate & Plunger Dial by Comparison Method IS-2103
31.	Electronic Height Gauge <sup>*</sup> L.C.: 0.01 $\mu$ m	0 to 1000 mm	10.0 $\mu$ m	Using Slip Gauges by Comparison Method
32.	Surface Plate <sup>*</sup>	3000 mm x 2000 mm	$2.1 \sqrt{\frac{L+W}{125}} \mu$ m	Using Precision Spirit Level by Comparison Method IS - 12937
II.	<b>DIMENSION (PRECISION INSTRUMENTS)</b>			
1.	Profile Projector <sup>*</sup> Linear Scale Angular Scale Magnification	Up to 200 mm Up to 360° 10 x to 1000 x	12 $\mu$ m 2.0 min 1.0 %	Using Glass Scale Angle Gauges & Slip Gauge & Dial Vernier by Comparison Method

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<b><u>MECHANICAL CALIBRATION</u></b>				
<b>LOCATION : 2</b>				
<b>I.</b>	<b>DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)</b>			
<b>1.</b>	Calipers <sup>s</sup> All Type L.C.: 0.01 mm	0 to 600 mm 0 to 1000 mm 0 to 2000 mm	12 $\mu$ m 20 $\mu$ m 31 $\mu$ m	Using Caliper Checker, Slip Gauges, Long Slip Gauge by Comparison Method IS 3651(Part-II) 1985
<b>2.</b>	Height Gauge <sup>s</sup> All Type L.C.: 0.01 mm	0 to 600 mm 0 to 1000 mm	17 $\mu$ m 18 $\mu$ m	Using Caliper Checker & Slip Gauges by Comparison Method IS 2921
<b>3.</b>	Depth Gauge <sup>s</sup> L.C.: 0.01 mm	0 to 300 mm 0 to 600 mm 0 to 1000 mm	17 $\mu$ m 22 $\mu$ m 24 $\mu$ m	Using Long Slip Gauge, Caliper Checker & Slip Gauges by Comparison Method IS 4213
<b>4.</b>	External Micrometer <sup>s</sup> L.C.: 0.001 mm  L.C.: 0.01 mm	Up to 100 mm >100 mm to 300 mm >300 mm to 500 mm >500 mm to 1500 mm	1.8 $\mu$ m 3.3 $\mu$ m 10.0 $\mu$ m 20.0 $\mu$ m	Using Slip Gauges, Long Slip Gauges by Comparison Method IS 2967
<b>5.</b>	V-anvil Micrometer <sup>s</sup> L.C.: 0.001 mm	0 to 100 mm	3.9 $\mu$ m	Using Setting Master/ Pin by Comparison Method

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6.	Depth Micrometer <sup>s</sup> L.C.: 0.001 mm	Up to 300 mm	5.5 $\mu$ m	Using Long Slip & Slip Gauges by Comparison Method IS 2967
7.	Internal Micrometer <sup>s</sup> L.C.: 0.001 mm	50 mm to 1350 mm	17 $\mu$ m	Using Slip Gauges, Long Slip Gauges, Plunger Dial by Comparison Method IS 2966
8.	Three Point Internal Micrometer / Bore Gauge <sup>s</sup> L.C.: 0.001 mm	3 mm to 200 mm	5.0 $\mu$ m	Using Master Ring Gauge by Comparison Method
9.	Dial Gauge <sup>s</sup> All Plunger type L.C.: 0.001 mm L.C.: 0.01 mm	0 to 1 mm 0 to 50 mm 0 to 100 mm	1.6 $\mu$ m 3.0 $\mu$ m 9.9 $\mu$ m	Using Dial Calibration Tester, ULM by Comparison Method IS 2092
10.	Dial Gauge <sup>s</sup> All Lever Type L.C.: 0.001 mm	Up to 2 mm	2.0 $\mu$ m	Using Dial Calibration Tester by Comparison Method IS 11498
11.	Bore Gauge <sup>s</sup>	Transmission only	3.2 $\mu$ m	Using Dial Calibration Tester by Comparison Method IS 2092
12.	Dial Thickness Gauge <sup>s</sup> L.C.: 0.001 mm	0 to 25 mm	2.0 $\mu$ m	Using Slip Gauges by Comparison Method IS 2092

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13.	Internal Caliper <sup>s</sup> L.C.: 0.01 mm	0 to 200 mm	7.0 $\mu$ m	Using Slip Gauges ULM by Comparison Method
14.	Pistol Caliper <sup>s</sup> L.C.: 0.1 mm	0 to 50 mm	60.0 $\mu$ m	Using Slip Gauges by Comparison Method IS 2092
15.	Dial Snap Gauge <sup>s</sup>	Up to 200 mm	3.0 $\mu$ m	Using Slip Gauges by Comparison Method IS 14271
16.	Steel Scale <sup>s</sup> L.C.: 1 mm	0 to 1 m	130 $\mu$ m	Using Tape-Scale Calibration Machine by Comparison Method IS 1481
17.	Measuring Tape <sup>s</sup> L.C.: 1 mm	Up to 50 m	130 $\sqrt{L}$ (L is in m)	Using Tape-Scale Calibration Machine by Comparison Method
18.	Taper Scale <sup>s</sup>	0 to 30 mm	125	Using Tape-Scale Calibration Machine by Comparison Method
19.	PI Tape <sup>s</sup> L.C.: 1 mm	Up to 10 m	390 $\sqrt{L}$ (L is in m)	Using Tape-Scale Calibration Machine by Comparison Method
20.	Coating Thickness Gauge <sup>s</sup>	0 to 750 $\mu$ m	3.9 $\mu$ m	Using Coating Thickness Foils by Comparison Method IS 4213

**Rajeshwar Kumar**  
Convenor

**Avijit Das**  
Program Manager



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21.	Ultrasonic Thickness <sup>s</sup> Gauge/D Meter	0 to 200 mm	115 $\mu$ m	Using Slip Gauges by Comparison Method
22.	Surface Roughness Tester <sup>s</sup>	Ra Up to 3 $\mu$ m R max Up to 10 $\mu$ m	8.8 %	Using Roughness Tester by Comparison Method
23.	Spirit Level <sup>s</sup> L.C.: 10 $\mu$ m/m	$\pm$ 120 $\mu$ m/m	9.7 $\mu$ m/m	Using Electronic Probe & Indexing Table with Sine Bar by Comparison Method IS 5706
24.	Comparator Stand <sup>s</sup> (Only Flatness)	Up to 100 mm >100 mm to 300 mm	1.6 $\mu$ m 2.5 $\mu$ m	Using Electronic Probe by Comparison Method IS 7599
25.	V-block <sup>s</sup> Parallelism Squareness Symmetricity	Up to 300 mm	7.0 $\mu$ m	Using Mandrels, Surface Plate & Plunger Dial, Height Gauge by Comparison Method IS 2948
26.	Parallel Blocks <sup>s</sup> Parallelism, Squareness	Up to 150 mm	7.0 $\mu$ m	Using Electronic Height Gauge, Surface Plate by Comparison Method IS 2103
27.	Engineers Square <sup>s</sup> Squareness, Parallelism	Up to 300 mm	11.0 $\mu$ m 4.3 $\mu$ m	Using Master Engineers Square, Height Gauge, Surface Plate by Comparison Method IS 2103

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28.	Dial Calibration Tester <sup>\$</sup>	0 to 25 mm	1.1 $\mu$ m	Using Slip Gauges, Electronic Probe by Comparison Method IS 9483
29.	Micrometer Head <sup>\$</sup> Analog/Digital/ Electronic L.C.: 0.1 $\mu$ m	0 to 50 mm	1.1 $\mu$ m	Using ULM by Comparison Method IS 9483
30.	Bevel Protractor <sup>\$</sup> Angle Protractor L.C.: 1'	0 to 360 °	4 min	Using Angle Gauges by Comparison Method IS 4239
31.	Combination Square Set <sup>\$</sup> L.C.: 1°	0 to 360 °	35 min	Using Angle Gauges by Comparison Method
32.	Tape Scale Calibration Machine <sup>\$</sup>	0 to 1000 mm	37	Using Long Slip Gauge by Comparison Method
33.	Micrometer Setting <sup>\$</sup> Rods/Length Bar	Up to 100 mm >100 mm to 300 mm >300 mm to 1000 mm >1000 mm to 1350 mm	1.0 $\mu$ m 2.0 $\mu$ m 4.0 $\mu$ m 16 $\mu$ m	Using Slip Gauges, Electronic Probe by Comparison Method IS 3179
34.	Plain Plug Gauge <sup>\$</sup> OD Master/Height Block	Up to 60 mm >60 mm to 300 mm >300 mm to 500 mm	1.5 $\mu$ m 3.0 $\mu$ m 7 $\mu$ m	Using ULM by Comparison Method IS 3455
35.	Cylindrical setting Pin <sup>\$</sup>	Up to 20 mm	1.2 $\mu$ m	Using FCDM, Electronic Probe, Slip Gauge by Comparison Method IS 11103

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36.	Thread Measuring Wire <sup>s</sup>	0.17 mm to 6.35 mm	1.1 $\mu$ m	Using Slip Gauges, Electronic Probe by Comparison Method IS 6311
37.	Snap Gauge <sup>s</sup>	Up to 150 mm >150 mm to 300 mm >300 mm to 500 mm	2.0 $\mu$ m 4.5 $\mu$ m 6.0 $\mu$ m	Using Slip Gauge by Comparison Method IS 3455
38.	Thread Plug Gauge <sup>s</sup>	Up to 100 mm >100 mm to 300 mm	2.5 $\mu$ m 3.5 $\mu$ m	Using ULM, Thread Measuring Wire by Comparison Method IS 2334, IS-4218, IS-14962
39.	Plain Ring Gauge <sup>s</sup>	Up to 100 mm >100 mm to 200 mm	2.0 $\mu$ m 4.0 $\mu$ m	Using ULM, Master Ring Gauge by Comparison Method
40.	Thread Ring Gauge <sup>s</sup>	Up to 100 mm >100 mm to 200 mm	2.0 $\mu$ m 4.0 $\mu$ m	Using ULM, Master Ring Gauge by Comparison Method
41.	Feeler Gauge <sup>s</sup>	Up to 2 mm	1.0 $\mu$ m	Using Electronic Probe by Comparison Method
42.	Coating Thickness Foils <sup>s</sup> (Shims)	Up to 2 mm	1.0 $\mu$ m	Using Electronic Probe by Comparison Method IS 3179

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43.	Surface Roughness <sup>\$</sup> Specimen	Ra up to 3 $\mu$ m R max Up to 10 $\mu$ m	9.4 %	Using Surface Roughness Tester by Comparison Method IS 4290-1992

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

<sup>\$</sup>Only in Permanent Laboratory

\*Only for Site Calibration

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Rajeshwar Kumar  
Convenor

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Avijit Das  
Program Manager