

**Laboratory** Precision Calibration Laboratory, "Amrut Complex", Off. NH4, Shirol, Kolhapur, Maharashtra

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

**Discipline** Mechanical Calibration **Issue Date** 13.04.2015

**Certificate Number** C-0219 **Valid Until** 12.04.2017

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability ( $\pm$ )	Remarks
<b>I. DIMENSION</b>			
1. CALIPERS <sup>s</sup> (Vernier, Dial, Digimatic) L.C. 10 $\mu\text{m}^{\Phi}$	Upto 600 mm	14.0 $\mu\text{m}$	Using Caliper Checker By Comparison Method
2. DEPTH VERNIER CALIPER <sup>s</sup> (Vernier, Dial, Digimatic) L.C. 20 $\mu\text{m}$	Upto 300 mm	19.0 $\mu\text{m}$	Using Caliper Checker & Gauge Block Set by Comparison Method
3. HEIGHT GAUGE <sup>s</sup> (Vernier/Digimatic) L.C. 10 $\mu\text{m}^{\Phi}$	Upto 600 mm	16.0 $\mu\text{m}$	Using Caliper Checker By Comparison Method
4. EXTERNAL MICROMETER <sup>s</sup> (All Types) L.C. 1 $\mu\text{m}$ L.C. 10 $\mu\text{m}$	Upto 300 mm Upto 600 mm	2.0 $\mu\text{m}$ 7.3 $\mu\text{m}$	Using Gauge Block & Setting Rod By Comparison Method
5. INTERNAL MICROMETER <sup>s</sup> 2- Point L.C. 10 $\mu\text{m}$	Upto 300 mm	6.4 $\mu\text{m}$	Using Gauge Block & Slip Gauge Accessories by Comparison Method

**Ranjith Kumar**  
Convenor

**Avijit Das**  
Program Manager

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6. DEPTH MICROMETER <sup>S</sup> L.C. 10.0 $\mu$ m	Upto 300 mm	9.2 $\mu$ m	Using Gauge Block By Comparison Method
7. DIAL GAUGE <sup>S</sup> (Plunger Type) L.C. 0.5 $\mu$ m <sup>Φ</sup> L.C. 10 $\mu$ m	Upto 5.0 mm Upto 25 mm	4.3 $\mu$ m 7.2 $\mu$ m	Using Dial Calibration Tester By Comparison Method
(Lever Type) L.C. 1 $\mu$ m L.C.10 $\mu$ m	Upto 0.2 mm Upto 5.0 mm	4.3 $\mu$ m 7.2 $\mu$ m	Using Dial Calibration Tester By Comparison Method
8. BORE DIAL GAUGE <sup>S</sup> (For Transmission Accuracy)	Upto 1.2 mm	6.5 $\mu$ m	Using Dial Calibration Tester & Plunger Dial by Comparison Method
9. PLAIN PLUG GAUGE/ SETTING MASTER/ WIDTH GAUGE/ FLUSH PIN GAUGE <sup>S</sup>	Upto 300 mm	2.3 $\mu$ m	Using Gauge Block Set & Comparator Stand By Comparison Method
10. PLAIN SNAP GAUGE/ DIAL SNAP GAUGE <sup>S</sup>	Upto 300 mm	3.0 $\mu$ m	Using LMM, Gauge Block Set By Comparison Method
11. THREAD PLUG GAUGE <sup>S</sup>	Upto 100 mm	4.5 $\mu$ m	Using LMM & Thread Measuring Wire by Comparison Method

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12. TAPER THREAD PLUG GAUGE <sup>S</sup>	Upto 100 mm	5.2 $\mu$ m	Using FCDM & Thread Measuring Wire by Comparison Method
13. CYLINDRICAL MEASURING PIN <sup>S</sup>	Upto 20 mm	1.8 $\mu$ m	Using Gauge Block Set & Comparator Stand with Dial By Comparison Method
14. FEELER GAUGE <sup>S</sup>	0.02 mm to 2.0 mm	2.0 $\mu$ m	Using Gauge Block Set & Comparator Stand with Dial by Comparison Method
15. DIAL THICKNESS GAUGE <sup>S</sup>	Upto 10 mm	6.0 $\mu$ m	Using Gauge Block Set by Comparison Method
16. PISTOL CALIPER <sup>S</sup> L.C. 100 $\mu$ m	Upto 100 mm	71.0 $\mu$ m	Using Gauge Block Set by Comparison Method
17. COMPARATOR STAND <sup>S</sup>	200 mm x 200 mm	3.6 $\mu$ m	Using Probe with Comparator Stand
18. BEVEL PROTRACTOR <sup>S</sup>	0 to 360°	10 min of arc	Using Gauge Block Set & Sine Bar by Comparison Method

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19. PLAIN RING GAUGES <sup>§</sup>	Upto 200 mm	3.4 $\mu$ m	Using LMM & Master Ring Gauges by Comparison Method
20. SURFACE PLATE <sup>*</sup>	4000 mm x 4000 mm	$2.5 \sqrt{\frac{L+W}{100}}$ $\mu$ m	Using Spirit Level By Comparison Method
<b>II. PRESSURE &amp; VACUUM</b>			
1. HYDRAULIC PRESSURE <sup>§</sup> (Digital/Analog Pressure Gauges)	0 to 40 bar >40 bar to 400 bar	1.4 bar 1.52 bar	Using Digital Pressure Gauge By Compression Method as per DKD-R6-1

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

<sup>§</sup>Only in Permanent Laboratory

<sup>\*</sup>Only for Site Calibration

<sup>Φ</sup> Laboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.

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