

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
I. DIMENSION			
1. CALIPERS^s (Vernier, Dial, Digimatic) L.C. 10 μm^{Φ}	Upto 600 mm	14.0 μm	Using Caliper Checker By Comparison Method
2. DEPTH VERNIER CALIPER^s (Vernier, Dial, Digimatic) L.C. 20 μm	Upto 300 mm	19.0 μm	Using Caliper Checker & Gauge Block Set by Comparison Method
3. HEIGHT GAUGE^s (Vernier/Digimatic) L.C. 10 μm^{Φ}	Upto 600 mm	16.0 μm	Using Caliper Checker By Comparison Method
4. EXTERNAL MICROMETER^s (All Types) L.C. 1 μm L.C. 10 μm	Upto 300 mm Upto 600 mm	2.0 μm 7.3 μm	Using Gauge Block & Setting Rod By Comparison Method
5. INTERNAL MICROMETER^s 2- Point L.C. 10 μm	Upto 300 mm	6.4 μm	Using Gauge Block & Slip Gauge Accessories by Comparison Method

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Convenor

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

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

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19. PLAIN RING GAUGES [§]	Upto 200 mm	3.4 μ m	Using LMM & Master Ring Gauges by Comparison Method
20. SURFACE PLATE [†]	4000 mm x 4000 mm	$2.5 \sqrt{\frac{L+W}{100}}$ μ m	Using Spirit Level By Comparison Method
II. PRESSURE & VACUUM			
1. HYDRAULIC PRESSURE [§] (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%

[§]Only in Permanent Laboratory

[†]Only for Site Calibration

^Φ 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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