

**Laboratory** Hi-Tech Services Calibration Laboratory, 204 KH, E Ward, G-3, Sharda Chambers, New Shahupuri, Kolhapur, Maharashtra

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

**Discipline** Mechanical Calibration

**Issue Date** 24.04.2015

**Certificate Number** C-0330

**Valid Until** 23.04.2017

**Last Amended on** -

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability ( $\pm$ )	Remarks
<b>I DIMENSION</b>			
1. CALIPERS <sup>\$</sup> (Verniers/Dial/ Digital) L.C. :- 10 $\mu\text{m}$ <sup>Φ</sup>	0 to 300 mm	20 $\mu\text{m}$	Using Caliper Checker By Comparison Method
2. DEPTH GAUGE <sup>\$</sup> (Vernier/Dial/Digital) L.C. :- 20 $\mu\text{m}$	Upto 200 mm	18 $\mu\text{m}$	Using Gauge Block & Surface Plate By Comparison Method
3. HEIGHT GAUGE <sup>\$</sup> (Verniers/Dial/ Digital) L.C. :- 10 $\mu\text{m}$ <sup>\$</sup>	0 to 300 mm	23 $\mu\text{m}$	Using Caliper Checker & Surface Plate By Comparison Method
4. EXTERNAL MICROMETER <sup>\$</sup> L.C. :- 1 $\mu\text{m}$ <sup>\$</sup>	0 to 50 mm	2.8 $\mu\text{m}$	Using Gauge Block By Comparison Method
5. MICROMETER SETTING ROD <sup>\$</sup>	Upto 125 mm	2.3 $\mu\text{m}$	Using Gauge Block & Dial Comparator With Stand By Comparison Method
6. DIAL GAUGE <sup>\$</sup> (Plunger Type) L.C. :- 1 $\mu\text{m}$ <sup>\$</sup>	0 to 1.0 mm	2.5 $\mu\text{m}$	Using Dial Calibration Tester By Comparison Method

**Shally Sharma**  
Convenor

**Avijit Das**  
Program Manager

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7. DIAL GAUGE <sup>\$</sup> (Lever Type) L.C. :- 1 $\mu\text{m}$ <sup><math>\Phi</math></sup>	0 to 0.14 mm	2.5 $\mu\text{m}$	Using Dial Calibration Tester by Comparison Method
8. BORE GAUGE WITH DIAL FOR TRANSMISSION ACCURACY <sup>\$</sup>	Upto 1.0 mm	7.2 $\mu\text{m}$	Using Dial Calibration Tester by Comparison Method
9. PLAIN PLUG GAUGE <sup>\$</sup>	Upto 150 mm	2 $\mu\text{m}$	Using Slip Gauge Block & Dial Comparator With Stand by Comparison Method
10. CYLINDRICAL MEASURING PIN <sup>\$</sup>	Upto 20 mm	2.0 $\mu\text{m}$	Using Gauge Block & Dial Comparator With Stand by Comparison Method
11. SNAP GAUGES <sup>\$</sup>	Upto 100 mm	1.4 $\mu\text{m}$	Using Gauge Block by Comparison Method
12. FEELER GAUGE <sup>\$</sup>	Upto 1.0 mm	3.2 $\mu\text{m}$	Using Gauge Block & Dial Comparator With Stand by Comparison Method
13. PISTOL CALIPER <sup>\$</sup> L.C. :- 100 $\mu\text{m}$	Upto 50 mm	76 $\mu\text{m}$	Using Gauge Block by Comparison Method

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14. SURFACE PLATE*	1000 mm x 3000 mm	$5.3 \sqrt{\frac{L+W}{150}} \mu\text{m}$ <p>Where L is Length in mm &amp; W is Width in mm</p>	Using Spirit Level L. C.: 10 $\mu\text{m}/\text{mm}$ 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

<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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