

Laboratory Vimtech Calibration Laboratory, "Sangmeshwar", 418/7/4, Gajanan Colony, Jyotibanagar, Kalewadi, Pimpri, Pune, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2411

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Validity 18.01.2018 to 17.01.2020

Last Amended on 16.03.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. DIMENSION(BASIC MEASURING INSTRUMENT,GAUGE etc)				
1.	Calipers ^s (Vernier / Dial / Digital) L.C.: 0.01mm	0 to 600 mm 0 to 1000 mm	15 μ m 22 μ m	Using Caliper Checker, Slip Gauge, Length Bar & External Micrometer by Comparison Method as per IS 3651
2.	Depth Gauge ^s (Vernier / Dial / Digital) L.C.: 0.01mm	0 to 300 mm	15 μ m	Using Slip Gauge Block Set, Surface Plate by Comparison Method as per IS 4213
3.	Height Gauge ^s (Vernier / Dial / Digital) L.C.: 0.01mm	0 to 600 mm 0 to 1000 mm	15 μ m 20 μ m	Using Surface Plate, Caliper Checker & Length Bar by Comparison Method as per IS 2921

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4.	External Micrometer ^s (Analog / Dial / Digital) L.C.: 0.001mm L.C.: 0.01mm	0 to 300 mm 300 mm to 1000 mm	3.4 μ m 11 μ m	Using Slip Gauge Block Set & Length bar set by Comparison Method as per IS 2967
5.	Micrometer Setting Sticks ^s	0 to 275 mm 275 mm to 975	3.6 μ m 10 μ m	Using Slip Gauge Block Set, Long gauge Block, Electronic Comparator with Stand & Length Bar by Comparison Method as per IS 2967
6.	Depth Micrometer ^s (Analog / Dial / Digital) L.C.: 0.01mm	0 to 300 mm	7.9 μ m	Using Slip Gauge Block Set & Surface Plate by Comparison Method
7.	Inside Micrometer/ Stick Micrometer ^s L.C.: 0.01mm A. Basic Travel of Micrometer Head. B. Overall Length Accuracy With Extension Rod (stick)	50 mm to 63 mm 63mm to 300 mm	6.6 μ m 7.2 μ m	Using Slip Gauge Block Set, Long Gauge Block, Electronic Probe with DRO & Surface Plate by Comparison Method as per IS 2966

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8.	Plunger Dial Gauge ^{\$} L.C.: 0.001mm	Upto 25 mm Upto 50 mm	3.4 μ m 1.5 μ m	Using Electronic Dial Calibration Tester, Gauge Block set by Comparison Method as per IS 2092
9.	Lever Dial Gauge ^{\$} L.C.: 0.001mm L.C.: 0.01mm	Upto 0.14 mm Upto 1.5 mm	3.0 μ m 4.3 μ m	Using Electronic Dial Calibration Tester by Comparison Method as per IS 11498
10.	Bore Gauge ^{\$} Transmission Error L. C. 0.001mm	Upto 1 mm	4.5 μ m	Using Electronic Dial Calibration Tester by Comparison Method
11.	Micrometer Head/Dial Calibration Tester ^{\$} L. C. 0.001mm	Upto 25 mm	2.5 μ m	Using Gauge Block Set & Electronic Probe by Comparison Method
12.	Dial Thickness Gauge ^{\$} L. C. 0.001mm	Upto 10 mm	1.5 μ m	Using Gauge Block Set by Comparison Method
13.	Dial Snap Gauge ^{\$}	Upto 200 mm	2.5 μ m	Using Gauge Block Set & Electronic Probe with Stand by Comparison Method as per IS 14271

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
14.	Plain Plug Gauge / OD Master / Width Gauge ^{\$}	Upto 200 mm	2.8 μ m	Using Gauge Block Set & Electronic Probe with Stand by Comparison Method as per IS 3455
15.	Cylindrical Measuring Pin ^{\$}	0.5 mm to 2.0 mm	2.4 μ m	Using Gauge Block sets & Electronic Probe with Stand by Comparison Method as per IS 11103
16.	Cylindrical Setting Master ^{\$} Diameter Variation Circularity	0.5 mm to 2.0 mm	2.6 μ m 2.4 μ m	Using Gauge Block sets, Electronic Probe with Stand & FCDM by Comparison Method as per IS 4349
17.	Plain Snap Gauge ^{\$}	3.0 mm to 200 mm	2.0 μ m	Using Gauge Block Set by Comparison Method as per IS 3477
18.	Electronic Probe ^{\$} L.C. 0.001mm	Upto 25 mm	1.0 μ m	Using Slip Gauge Block Set & Electronic Comparator Stand by Comparison Method
19.	Thread Plug Gauge ^{\$} Major Diameter Effective Diameter	3 mm to 100 mm	4.6 μ m	Using FCDM, Cylindrical Setting Master & Thread Measuring Wires by Comparison Method as per IS 2334, IS 4218, IS 14962

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
20.	Taper Thread Plug Gauge [§] Major Diameter Effective Diameter	3 mm to 100 mm	5.1 μ m	Using FCDM, Cylindrical Setting Master & Thread Measuring Wires by Comparison Method as per ANSI/ASME B1.20.5, IS 8999, IS 9121
21.	Bevel Protractor L.C. 5' [§] L.C. 1' [§]	0° – 90°- 0°	5.0 arcmin 1.5 arcmin	Using Angle Gauge Set by Comparison Method as per IS 4239
22.	Combination Set / Angle Protractor L.C. 1° [§]	0° – 90°- 0°	37 arcmin	Using Angle Gauge Set by Comparison Method
23.	V-Block [§] Parallelism of Faces & V-Axis. Symmetry	Up to 300 mm	5.0 μ m 6.9 μ m	Using Holder with Plunger Dial, Test Mandrel & Surface Plate by Comparison Method as per IS 2949
24.	Feeler Gauge / Coating Thickness Foils [§]	Upto 1 mm	2.5 μ m	Using Electronic Probe by Comparison Method as per IS 3179
25.	Pistol Caliper [§] L.C. 0.1 mm	0 to 50 mm	71.0 μ m	Using Gauge Block Sets by Comparison Method
26.	Inside Dial Caliper [§] L.C.:0.01 mm	Upto 200mm	7.0 μ m	Using Gauge Block Set & Slip Gauge Accessories set by Comparison Method

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27.	Electronic Height Gauge #	0 to 600 mm	10 μ m	Using Gauge Block Sets & Length Bar sets by Comparison Method as per S 2921
28.	Surface Plate*	2000mm x 2000mm	$2.4 \sqrt{\frac{L+W}{120}}$ L & W in mm	Using Sprit Level with L.C.: 10 μ m/m by Comparison Method as per IS 12937

* 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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