

Laboratory Hindustan Lab Systems, #781/2, M. Ramaiah Building, SRS Road,
Peenya 1st Stage, Bangalore, Karnataka

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2600 (in lieu of C-1338)

Page 1 of 5

Validity 01.03.2018 to 28.02.2020

Last Amended on 05.03.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)				
1.	Calipers [§] (Dial, Vernier, Digital) L.C.: 0.05 mm L.C.: 0.05 mm L.C.: 0.02 mm L.C.: 0.02 mm L.C.: 0.02 mm L.C.: 0.01 mm L.C.: 0.01 mm L.C.: 0.01 mm	Upto 600 mm Upto 1000 mm Upto 300 mm Upto 600 mm Upto 1000 mm Upto 300 mm Upto 600 mm Upto 1000 mm	20.4 μ m 24.2 μ m 11.5 μ m 13.7 μ m 15.2 μ m 9.2 μ m 10.2 μ m 11.1 μ m	Using Caliper checker and Gauge Block Comparison Method based on IS: 3651 (Part 1, 2 & 3)
2.	Depth Caliper [§] (Dial, Vernier, Digital) L.C.: 0.02 mm L.C.: 0.01 mm	Upto 600 mm Upto 300 mm	13.5 μ m 8.5 μ m	Using Gauge block By Comparison Method based on IS: 4213
3.	Height Gauge (Dial, Vernier, Digital) [§] L.C.: 0.02 mm L.C.: 0.02 mm L.C.: 0.01 mm L.C.: 0.01 mm	Upto 600 mm Upto 1000 mm Upto 600 mm Upto 1000 mm	13.6 μ m 15.2 μ m 9.5 μ m 11.0 μ m	Using Gauge block and Master Dial By Comparison Method based on IS: 2921
4.	External Micrometer [§] (Analogue & Digital) L.C.: 0.01 mm L.C.: 0.01 mm L.C.: 0.01 mm L.C.: 0.001 mm L.C.: 0.001 mm	Upto 100 mm Upto 300 mm Upto 600 mm Upto 300 mm Upto 600 mm	4.2 μ m 5.1 μ m 6.5 μ m 3.6 μ m 4.5 μ m	Using Gauge block By Comparison Method based on IS: 2967

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Page 2 of 5

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5.	Depth Micrometer ^s (Analogue & Digital) L.C.: 0.01 mm	Upto 300 mm	6.5 μ m	Using Gauge block By Comparison Method based on BS: 6468
6.	Stick Micrometer ^s L.C.: 0.01 mm L.C.: 0.01 mm	12.5 mm to 500 mm 500 mm to 1000 mm	7.0 μ m 8.7 μ m	Using Gauge block and Gauge Block Accessories By Comparison Method based on IS: 2966
7.	Internal Micrometer ^s L.C.: 0.01 mm	5 mm to 200 mm	5.0 μ m	Using Gauge block and Gauge Block Accessories By Comparison Method based on IS: 2966
8.	Bore Gauge ^s (Analogue & Digital) transmission only L.C.: 0.001 mm	\varnothing 6-500mm Probing Range upto 2mm	3.2 μ m	Using Electronic Dial Calibration tester By Comparison Method based on JIS B: 7515
9.	Thread Plug Gauge ^s	\varnothing 2 to 100 mm	3.5 μ m	Using Electronic Floating Carriage Diameter Measuring M/c By Comparison Method Based on IS:2334, IS:4218
10.	Taper Thread Plug Gauge ^s	\varnothing 3 to 100 mm	4.0 μ m	Using Electronic floating carriage diameter measuring M/c By Comparison Method based on IS:8999& ANSI/ASME B1.20.1

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Page 3 of 5

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11.	Plain Plug Gauge ^s	\varnothing 2 to 100 mm	2.5 μ m	Using Electronic floating carriage diameter measuring M/c By Comparison Method based on IS: 3455
12.	Cylindrical Measuring Pin ^s	Upto \varnothing 20 mm	1.2 μ m	Using Electronic floating carriage diameter measuring M/c By Comparison Method based on IS: 11103
13.	Plunger Dial Gauge ^s (Analogue & Digital) L.C.: 0.01 mm L.C.: 0.001 mm	Upto 25 mm Upto 25 mm	5.8 μ m 2.5 μ m	Using Electronic Dial Calibration tester By Comparison Method based on IS: 2092
14.	Lever Dial Gauge ^s (Analogue & Digital) L.C.: 0.01 mm L.C.: 0.001 mm	Upto 2 mm Upto 2 mm	4.8 μ m 1.7 μ m	Using Electronic Dial Calibration tester By Comparison Method based on IS: 11498
15.	Feeler Gauge ^s	0.01 mm to 1 mm	2.0 μ m	Using Electronic Floating Carriage Diameter Measuring M/c By Comparison Method based on IS: 3179
16.	Engineers Parallel ^s (Parallelism)	Upto 500 mm	5.5 μ m	Using Master Dial indicator By Comparison Method based on IS: 4241
17.	Micrometer Setting Rods ^s	12.5 mm to 600 mm	6.0 μ m	Using Gauge block and Comparator By Comparison Method

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Page 4 of 5

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18.	Leg Caliper [§] L.C.: 0.01 mm	5 mm to 150 mm	5.0 μ m	Using Gauge block and Gauge Block Accessories By Comparison
19.	Precision Dial Gauge/Electronic Indicator/LVDT [§] L.C.: 0.0005 mm	Upto 0.2 mm	2.0 μ m	Using Electronic Dial Calibration tester By Comparison
20.	Dial Thickness Gauge [§] L.C.: 0.001 mm	Upto 12.7 mm	2.5 μ m	Using Gauge Block By Comparison based on IS: 2092
21.	Master Foils [§]	Upto 1 mm	1.8 μ m	Using Digital Micrometer By Comparison
22.	Dial Snap Gauge [§] L.C.: 0.001 mm	Upto 200 mm	4.0 μ m	Using Gauge Block By Comparison based on IS: 14271
23.	Snap Gauge [§] (Gap/Slot/Width)	2.5 mm to 150 mm	3.0 μ m	Using Gauge Block By Comparison based on IS: 3455
24.	V-Block (Parallelism, Symmetry & Squareness) [§]	Upto 200 mm	6.4 μ m	Using Cylindrical Mandrel and Master Dial By Comparison based on IS: 2949
25.	Comparator Stand (Flatness of Base)	400 mm X 400 mm	4.0 μ m	Using Master dial By Comparison based on IS: 7599
26.	Coating Thickness Gauge [§] L.C.: 0.0001 mm	Upto 1 mm	2.0 μ m	Using Standard Foils By Comparison based on IS: 6012

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27.	Electronic Height Measuring System [§] L.C.: 0.0001mm	Upto 600 mm	5.1 μ m	Using Gauge block By Comparison Method based on IS: 2921
28.	Pistol Caliper [§] L.C.: 0.1mm	0 to 50 mm	40.3 μ m	Using Gauge block By Comparison Method

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

[§]Only in Permanent Laboratory

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