

Laboratory **CLICK-IN Calibration Laboratory, S. No. 44/3, Flat No. 11, Satyam Plaza,
Sinhagad College Campus, Vadgaon Bk., Pune, Maharashtra**

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

Discipline **Mechanical Calibration** Issue Date **19.07.2014**

Certificate Number **C-0840** Valid Until **18.07.2016**

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. DIMENSION			
1. Plain Plug/Width/ Depth Gauges/ High Gauges ^{\$}	0 to 100 mm	2.0 μ m	Using Electronic Comparator/Slip Gauges/ Long Slip Gauges by Comparison Method IS 3455
	100 mm to 200 mm	3.1 μ m	
	200 mm to 300 mm	4.4 μ m	
2. Plain Snap Gauge/ Gap Gauges ^{\$}	0 to 100 mm	2.0 μ m	Using Slip Gauges/Long Slip Gauges by Comparison Method IS 3455
	100 mm to 300 mm	4.4 μ m	
3. Feeler Gauges/ Thickness Foils ^{\$}	Upto 5 mm	1.7 μ m	Using Electronic Comparator/Slip Gauges by Comparison Method IS 3179
4. Plain OD Master	0 to 100 mm	2.5 μ m	Using Electronic Comparator/Slip Gauges by Comparison Method
	100mm to 200 mm	3.1 μ m	
	200 mm to 300 mm	4.4 μ m	
5. Measuring Pins/ Thread Measuring Wires ^{\$}	0.3 mm to 20 mm	1.5 μ m	Using Electronic Comparator/Slip Gauges by Comparison Method

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6. Micrometer Setting Rod/ Length Bar^s	0 to 150 mm	2.5 μ m	Using Electronic Comparator/ Slip Gauges/Long Slip Gauges Box by Comparison Method
	150 mm to 300 mm	4.4 μ m	
	300 mm to 500 mm	7.1 μ m	
	500 mm to 1000 mm	14.0 μ m	
7. Riser Block^s	150 mm	2.5 μ m	Using Electronic Comparator/ Slip Gauges/Long Slip Gauges Box by Comparison Method
	300 mm	4.4 μ m	
	600 mm	8.4 μ m	
8. Plain Ring Gauges^s	6 mm to 100 mm	3.0 μ m	Using Electronic Probe/ Slip Gauges/Slip Accessories by Comparison Method
	100 mm to 250 mm	5.0 μ m	
9. Vernier Calipers^s (Dial /Digital) L.C. 0.01 mm^{phi}	0 to 600 mm	13.0 μ m	Using Caliper Checker/ Slip Gauge / Long Slip Gauges by Direct Method IS 2921
	0 to 1000 mm	16.0 μ m	

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10. Vernier Height Gauges^{\$} (Dial /Digital)			
L.C. 0.001 mm ^ϕ	0 to 600 mm	8.7 μ m	Using Caliper Checker/ Slip Gauge / Long Slip Gauges by Direct Method IS 2921
	0 to 1000 mm	14.0 μ m	
L.C. 0.02 mm	0 to 1500 mm	25.6 μ m	
11. Depth Gauges^{\$} (Dial /Digital)			
L.C. 0.01 mm ^ϕ	0 to 600 mm	14.0 μ m	Using Caliper Checker/ Slip Gauge / Long Slip Gauges by Direct Method
12. External Micrometer^{\$} L.C. 0.01 mm	500 mm to 1000 mm	15.0 μ m	Using Slip Gauge/ Micrometer Check Set / Long Slip Gauges by Comparison Method IS 2967
	500 mm to 1500 mm	22.0 μ m	
L.C. 0.001 mm ^ϕ	0 to 100 mm	2.0 μ m	
	100 mm to 300 mm	4.3 μ m	
	300 mm to 500 mm	7.0 μ m	
13. Depth Micrometer/ Dial Depth Gauge^{\$} L.C. 0.01 mm	0 to 300 mm	7.2 μ m	Using Slip Gauge/ Micrometer Check Set/ Long Slip Gauges by Comparison Method

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14. Internal Micrometer-2 Point^s (with Interchangeable setting Rod not more than 400 mm) L.C. 0.001 mm	0 to 300 mm 300 mm to 1000 mm 1000 mm to 1500 mm	11.3 μ m 16.0 μ m 22.0 μ m	Using Slip Gauge Set/ Long Slip Gauges & Accessories by Comparison Method IS 2966
15. Inside Dial Caliper^s L.C. 0.001 mm ^{phi}	0 to 150 mm	2.4 μ m	Using Slip Gauge Set/ Long Slip Gauges & Accessories by Comparison Method IS 2966
16. Height Micrometer^s L.C. 0.001 mm ^{phi}	0 to 300 mm	4.3 μ m	Using Slip Gauge/ Micrometer Check Set/ Long Slip Gauges by Comparison Method
17. Plunger Type Dial / Comparator Dial^s L.C. 0.0005 mm L.C. 0.0001 mm ^{phi} L.C. 0.001 mm	0 to 0.1 mm 0 to 5 mm 0 to 50 mm	0.8 μ m 0.7 μ m 1.7 μ m	Using Slip Gauges Set by Comparison Method IS 2092

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18. Lever Type Dial Indicator ^s L.C. 0.001 mm ^φ	Upto 2 mm	1.6 μ m	Using Slip Gauges by Comparison Method IS 11498
19. Bore Gauge ^s (for Transmission only)	Upto 2 mm	1.9 μ m	Using Slip Gauges and Electronic Comparator by Comparison Method IS 2092
20. Dial Snap Gauge ^s (Parallelism)	0 to 100 mm 100 mm to 300 mm	3.0 μ m 5.0 μ m	Using Slip Gauges/ Long Slip Gauges by Comparison Method IS 14271
21. Dial Thickness Gauge / Pistol Caliper ^s L.C. 0.001 mm ^φ	0 to 50 mm	1.7 μ m	Using Slip Gauges/ Micrometer Check Set by Comparison Method IS 2092
22. Comparator / DRO / Digital Probe with Comparator Stand ^s L.C. 0.0001 mm L.C. 0.001 mm Flatness of Base	0 to 25 mm 0 to 50mm 300mm x 300 mm	0.8 μ m 1.7 μ m 2.9 μ m	Using Slip Gauges by Comparison Method IS 2092

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23. Slip Gauge Accessory Set ^{\$} (Parallelism)	300 mm	2.1 μ m	Using Slip Gauges and Electronic Comparator by Comparison Method IS 4440
24. "V" Block ^{\$} (Parallelism, Symmetrycity)	150mm x150mmx100mm	2.6 μ m 7.8 μ m	Using Electronic Comparator/Angle Gauge/ Precision Mandrel by Comparison Method IS 4440
25. Coating Thickness Gauge ^{\$} L.C. 0.001 mm ^ϕ	0 to 1 mm	9.0 μ m	Using Master Foils by Comparison Method IS 8435
26. Bevel Protractor ^{\$} L.C. 1 min ^ϕ	0° to 360°	4'	Using Angle Gauges by Comparison Method IS 4239
27. Combination Set ^{\$}	0° to 360°	24'	Using Angle Gauges by Comparison Method

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
28. Angle Gauge ^{\$}	Upto 90°	4''	Using Sine Bar/Slip Gauge by Comparison Method IS 6231
29. Sine Bar ^{\$}	0 to 300 mm	4.6 for C.D. 5.7 arc sec. for angle	Using Sine Bar/Slip Gauge by Comparison Method IS 6231
30. Tri Square / Square Cylinder ^{\$}	Upto 300 mm	8.0 μ m	Using Granite Square / Slip Gauge by Comparison Method
31. Sprit Level ^{\$} L.C. 10 μ m/m ^φ	300 mm (base length)	9.5 μ m/m	Using Slip Gauge/Sine Bar by Comparison Method IS 5706
32. Surface Plate*	150 mm x 150mm to 3000 mm x 2000 mm	$3.9x \left[\sqrt{\left(\frac{L+W}{200} \right)} \right]$ Where L is Length & W is Width in mm	Using Precision Spirit Level by Comparison Method

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33. Bench Center* (Co-Axiality over 500 mm & Parallelism over 300 mm)	E max up to 300 mm	9.4 μ m	Using Dial Gauge/ Plain Mandrel by Comparison Method
34. Profile Projector*			
Linear L.C. : 0.001 mm ϕ	0 to 100 mm	3.0 μ m	Using Slip Gauges/ by Comparison Method IS 13011
Angular L.C. : 1 min ϕ	0° to 360°	47 sec.	Using Angle Gauges by Comparison Method IS 13011
Magnification	10x to 100x	0.10%	Using Slip Gauges and Digital Caliper by Comparison Method IS 13011

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35. Straight Edge*	Upto 3000 mm	$3.8x \left[\sqrt{\left(\frac{L}{200} \right)} \right]$ Where L is Length in mm	Using Precision Spirit Level & Slip Gauge by Comparison Method IS 2220 & IS 3512

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

φLaboratory 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.

\$Only in Permanent Laboratory

*Only for Site Calibration