

Laboratory	J. B. Calibrators, 389/13, Shreyas Soc, Shankar Sheth Road, Gultekdi, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025:2005		
Discipline	Mechanical Calibration	Issue Date	31.03.2015
Certificate Number	C-0227	Valid Until	30.03.2017
Last Amended on	05.06.2015	Page	1 of 6

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
DIMENSION			
1. Calipers Vernier / Dial / Digital			
L.C. : 0.01mm ^Φ	Upto 600 mm	19.3 μ m	Caliper Checker & Slip Gauge Using Caliper Checker & Slip Gauges. by Comparison Method as per IS 3651 (Part –II)-1985
Pistol Caliper L.C. : 0.01mm	Upto 100 mm	19.3 μ m	Slip Gauge by Comparison Method
2. External Micrometer			
L.C. : 0.001mm	0 to 25 mm 25 mm to 150 mm	0.90 μ m 1.75 μ m	Slip Gauge. Using Slip Gauges by Comparison Method
L.C. : 0.01mm	Upto 300 mm	6.4 μ m	as per IS 2967-1983
3. Height Gauge (All Type)			
L.C. : 0.001mm	Upto 600mm	6.9 μ m	Using Caliper Checker & Slip Gauge
L.C. : 0.01mm	Upto 600mm	19.0 μ m	by Comparison Method
L.C. : 0.02mm	Upto 600mm	22.0 μ m	as per IS 2921-1988
4. Plunger Dial Gauges			
L.C. : 0.0005 mm	0.1 mm	0.6 μ m	Slip Gauge with Comparator Stand Comparison Method as per IS 2092-1983.

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Program Manager

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L.C. : 0.001 mm^Φ	Upto 50 mm	2.6 μ m	Dial Calibration Tester & Slip Gauge. Comparison Method as per IS 2092-1983.
Lever Type Dial Gauge.			
L.C. : 0.001mm^Φ	Upto 3 mm	2.6 μ m	Dial Calibration Tester & Slip Gauge. Comparison Method IS 11498-1985.
5. Bore Gauges (Only for Transmission accuracy : 2mm)	Transmission Upto 2 mm	6.60 μ m	Dial Calibration Tester Comparison Method as per JIS B 7515
6. Plain Plug Gauge / Width Gauge / Depth Gauge.	Upto 100 mm 100 mm to 300 mm	1.80 μ m 3.20 μ m	Slip Gauge & Electronic Comparator With Stand Comparison Method as per IS 3455-1971.
Cylindrical Setting Masters / O D Masters.	1mm to 100 mm 100 mm to 300 mm	1.80 μ m 3.20 μ m	Comparison Method as per IS 4349-1987.
Pin Gauge	Upto 20 mm	1.80 μ m	Comparison Method as per IS 11103-1984.
7. Snap Gauges / Gap Gauges	Upto 300 mm	1.80 μ m	Slip Gauges. Comparison Method as per IS 3455-1971.
8. Feeler Gauges	Upto 1 mm	2.60 μ m	External Micrometer. Comparison Method as per IS 3179-1990.

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9.	Dial Snap Gauge (Parallelism Check between Gauging Faces)	Upto 200 mm	2.00 μ m	Slip Gauge & Electronic Comparator Comparison Method as per IS 14271-1995.
10	Micrometer Setting Standards / Length Bar / Height Setting Masters	Upto 100 mm 100 mm to 300 mm	1.80 μ m 3.20 μ m	Slip Gauge & Electronic Comparator With Stand Comparison Method
11	Inside Micrometer (2 Point Type) LC : 0.01mm	5 mm to 300 mm	8.0 μ m	Slip Gauges & Slip Gauge Accessories. Comparison Method as per IS 2966-1964
12	Dial Thickness Gauge (L. C. 0.001 / 0.01mm)	Upto 50 mm	5.80 μ m	Slip Gauges. Comparison Method
13	Vernier Depth Gauge. L C 0.01 mm ^Φ	Upto 300 mm	14.00 μ m	Long Slip / Slip Gauges. Comparison Method as per IS 4213-1991
	Depth Micrometer L C 0.01mm	Upto 300 mm	14.00 μ m	Long Slip / Slip Gauges. Comparison Method as per JIS B 7544
14	Dial Calibration Tester	Upto 25 mm	1.80 μ m	Slip Gauge & Electronic Comparator Comparison Method

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15	Plain Ring Gauge	4 mm to 150 mm	1.80 μ m	Length Measuring Machine. Comparison Method as per IS 3485-1993
16	Bevel Protractor / Degree Protractor (L C : 5')	0 ° to 360 °	3' 47"	Sine Bar & Slip Gauges. Comparison Method as per IS 4239-1970
17	Parallel Thread Plug Gauge	0 to 100 mm	4.30 μ m	Floating Carriage Micrometer. Comparison Method as per IS 2334-2001
	Taper Thread Plug Gauge	0 to 100 mm	4.30 μ m	Floating Carriage Micrometer. Comparison Method
18	Straight Edge	Upto 750 mm Long	6.0 μ m	Micro Indicator & Surface Plate. Comparison Method as per IS 12937-1990
19	Thread Ring Gauge	3 mm to 100 mm	2.40 μ m	Length Measuring Machine. Comparison Method as per IS 2334-2001

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20	Thread Pitch Gauge	For Pitch	25.0 μ m	Vision Measuring System Comparison Method as per IS 4211-1993
21	Radius Gauge	For Radius	25.0 μ m	Vision Measuring System Comparison Method as per IS 5273-1969.
22	Electronic Height Gauge* L C : 0.001 mm	Upto 600 mm	10.90 μ m	Caliper Checker, Slip Gauge & Long Slip Gauge. Comparison Method
23	Profile Projector *			
	a. Angular Measurement	Upto 360 °	2' 5"	Angle Gauge Block. Comparison Method as per JIS B 7184
	b. Linear Measurement (X & Y Axis)	Upto 100 mm	7.40 μ m	Slip Gauge. Comparison Method as per JIS B 7184
	c. Magnification Accuracy	Upto 100 x	0.80 %	Slip Gauge & Dial Caliper. Comparison Method as per JIS B 7184

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24	Surface Plate *	Upto 3000 mm x 3000 mm	6.9 x \bar{O} (L+W) μ m (L & W in mm)	Sprit Level (Precision Level.) Comparison Method as per IS : 7327-2003 & IS : 2285-2003
25	Vee Block \$ a. Parallelism / b. Squareness c. Symmetry	Upto 150 mm	7.00 μ m 11.60 μ m 7.00 μ m	Micro Indicator, Squareness Cylinder & Surface Plate by Comparison Method as per IS 4960-1968

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

*Only for Site Calibration

\$Only in Permanent Laboratory

^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.