

Laboratory Sri Sastha Metrology, No. 81-C, Robertson Road, R. S. Puram,
Coimbatore, Tamil Nadu

Accreditation Standard ISO/IEC 17025:2005

Discipline Mechanical Calibration **Issue Date** 16.12.2014

Certificate Number C-1171 **Valid Until** 15.12.2016

Last Amended on - **Page** 1 of 4

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. DIMENSION			
1. Vernier Caliper ^{\$} (Digital/Dial) L.C.: 0.01 mm ^{ϕ}	Up to 300 mm Up to 600 mm Up to 1000 mm	11.0 μ m 14.0 μ m 20.3 μ m	Using Grade 0 Gauge blocks and Length Bars by Comparison Method
2. Depth gauge^{\$} (Vernier/Digital) L.C.: 0.01 mm ^{ϕ}	Up to 300 mm Up to 600 mm	11.0 μ m 15.0 μ m	Using Grade 0 Gauge blocks and Length Bars by Comparison Method
3. External Micrometer^{\$} L.C.: 0.01 mm	100 mm to 500 mm 500 mm to 800 mm	8.2 μ m 12.1 μ m	Using Grade 0 Gauge blocks and Length Bars by Comparison Method
L.C.: 0.001 mm ^{ϕ}	Up to 100 mm	2.6 μ m	
4. Depth Micrometer^{\$} L.C.: 0.01 mm	Up to 300 mm	10.0 μ m	Using Grade 0 Gauge blocks and Length Bars by Comparison Method
5. Internal/ Stick /Tubular micrometers ^{\$} L.C.: 0.01 mm	5 mm to 100 mm 100 mm to 300 mm	4.8 μ m 6.6 μ m	Using Slip gauge accessory set, Gauge blocks Length Bars/ probe by Comparison Method

Neeraj Verma
Convenor

Avijit Das
Program Manager

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Last Amended on - **Page** 2 of 4

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6. Plunger Gauges ^{\$} (Digital Dial) L.C.: 0.001 mm ^ϕ	Up to 25 mm	4.4 μ m	Using Dial Calibration Tester by Comparison Method
7. Lever Dial Gauges ^{\$} L.C.: 0.001 mm L.C.: 0.002mm L.C.: 0.01mm	Up to 0.14 mm Up to 0.2 mm Up to 1 mm	4.4 μ m 4.4 μ m 5.2 μ m	Using Dial Calibration Tester by Comparison Method
8. Dial bore gauge ^{\$} (Transmission) L.C.: 0.01mm	Up to 2 mm	5.0 μ m	Using Dial Calibration Tester by Comparison Method
9. Vernier Height Gauge ^{\$} (Dial/Digital) L.C.: 0.01 mm ^ϕ	Up to 600 mm Up to 1000 mm	12.0 μ m 20.0 μ m	Using Grade 0 Gauge blocks & Length Bars by Comparison Method
10. Snap gauge ^{\$}	3 mm to 300 mm	5.2 μ m	Using Grade 0 Gauge blocks by Comparison Method
11. Feeler gauge ^{\$}	Up to 1 mm	4.0 μ m	Using Digital micrometer by Comparison Method

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Last Amended on - **Page** 3 of 4

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12. Thickness foils ^{\$}	Up to 1 mm	3.8 μ m	Using Gauge blocks and digital dial by Comparison Method
13. Cylindrical measuring pins/wires ^{\$}	Up to 20 mm	3.3 μ m	Using Gauge blocks and Electronic Probe DRO by Comparison Method
14. Inside Dial caliper/ Groove dial ^{\$} L.C.: 0.01mm	5 mm to 200 mm	8.0 μ m	Using Grade '0' gauge block and Slip gauge accessory set by Comparison Method
15. Plain plug gauge ^{\$}	Up to 100 \emptyset 100 \emptyset to 300 \emptyset	3.4 μ m 5.7 μ m	Using Gauge blocks, Length Bar & Electronic Probe by Comparison Method
16. Cylindrical setting Masters ^{\$} (Diameter)	Up to 100 \emptyset 100 \emptyset to 300 \emptyset	3.4 μ m 5.7 μ m	Using Gauge blocks & Length Bar Electronic Probe by Comparison Method
17. Comparator Stand ^{\$} Flatness	Up to 300 mm	8.3 μ m	Using Digital Dial by Comparison Method
18. Straight edge ^{\$}	Up to 1000 mm	7.1 μ m	Using Lever dial by Comparison Method

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Last Amended on - **Page** 4 of 4

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
19. Micrometer setting rods ^{\$}	Up to 100 mm 100 mm to 500 mm 500 mm to 800 mm	4.0 μ m 8.6 μ m 12.3 μ m	Using Gauge blocks Length bar & Digital dial by Comparison Method
20. 2 D Height Master*	Up to 1000 mm	20.0 μ m	Using Grade 0 Gauge blocks & Length Bars by Comparison Method
II. PRESSURE			
1. Pressure Gauge/ Pressure Transmitters # Hydraulic (Dial/ Digital)	0 to 40 bar 0 to 700 bar	1.65 % of rdg 0.92 % of rdg	Using Digital pressure calibrator by Comparison Method procedures based on DKD R-6-1

* 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.

^{phi}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.