

Laboratory **Measurewel Technologies, Unit No. 6, H-Building, Udyog Bharti Estate, C Sector, MIDC Waluj, Aurangabad, Maharashtra**

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

Discipline **Mechanical Calibration** **Issue Date** **14.05.2015**

Certificate Number **C-0923** **Valid Until** **13.05.2017**

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. DIMENSION			
1. External Micrometer \$ L.C.0.001 mm L.C.0.01 mm	0 to 100 mm 0 to 200 mm	1.2 μ m 3.8 μ m	Using 'Grade 0' Micrometer checking Gauge Blocks & Gauge block set by Comparison Method
2. Vernier Caliper \$ (Plain/Dial/Digital) L.C.0.01 mm Φ	0 to 600 mm	11.0 μ m	Using Caliper Checker by Comparison Method
3. Vernier Height Gauge \$ (Plain/Dial/Digital) L.C. 0.01 mm Φ	0 to 600 mm	11.1 μ m	Using Caliper Checker by Comparison Method
4. Plunger Dial Gauge \$ L.C. 0.001 mm Φ	0 to 25 mm	2.5 μ m	Using Electronic Dial Calibration Tester by Comparison Method
5. Lever Dial Gauge \$ L.C.0.001 mm L.C.0.002 mm L.C.0.01 mm	0 to 0.1 mm 0 to 0.2 mm 0 to 1 mm	2.5 μ m 2.6 μ m 3.3 μ m	Using Electronic Dial Calibration Tester by Comparison Method

Neeraj Verma
Convenor

Avijit Das
Program Manager

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
6. Dial Thickness Gauge \$ L.C.0.001 mm L.C. 0.01 mm	0 to 10 mm 0 to 20 mm	1.0 μ m 7.6 μ m	Using 'Gr. 0' Gauge Blocks by Comparison Method
7. Bore Gauge (only for transmission error) \$	0 to 1 mm	3.2 μ m	Using Electronic Dial Calibration Tester by Comparison Method
8. Plain Plug Gauge \$	0 to 100 mm 100 to 200 mm	2.3 μ m 2.7 μ m	Using Comparator Stand with Plunger Dial & Grade 0 Slip Gauges by Comparison Method
9. Measuring Pins \$	0 to 20 mm	2.4 μ m	Using Comparator Stand with Plunger Dial & Grade 0 Slip gauges by Comparison Method
10. Plain Gap/Snap Gauges \$	0 to 100 mm 100 mm to 200 mm	1.4 μ m 1.7 μ m	Using 'Gr. 0' Gauge Blocks By Comparison Method
11. Setting Rod \$	0 to 175 mm	2.5 μ m	Using Comparator Stand with Plunger Dial & 'Grade 0' Slip gauges by Comparison Method
12. Feeler Gauge	0 to 2 mm	3.0 μ m	Using Digital Micrometer L.C.0.001 mm by Comparison Method

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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
13. Bevel Protractor ^{\$} L.C. 5'	0°-90°-0°	5' of Arc	Using Angle Gauge Set by Comparison Method
II. PRESSURE & VACUUM			
1. Vacuum Gauges [#]	-0.8 to 0 bar	0.03 bar	Using Digital master Vacuum Gauge by Comparison Method
2. Pressure Gauge [#] (Pneumatics)	0 to 20 bar	0.60 bar	Using Digital master Pressure Gauge by Comparison Method
3. Pressure Gauge [#] (Hydraulics)	0 to 60 bar 60 bar to 500 bar	0.07 bar 1.35 bar	Using Digital master pressure gauge by Comparison Method

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

^{\$}Only in Permanent Laboratory

^Ø 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.

[#] 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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