Shweta Instruments, 1, Vedkiran Apartment, Kamatwada, Ambad Link Road, Ambad, Nashik, Maharashtra Laboratory

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

**Certificate Number** Page 1 of 4 CC-2324 (In lieu of C-0960)

Validity 01.08.2017 to 31.07.2019 Last Amended on 04.09.2017

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks				
	MECHANICAL CALIBRATION							
I.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)							
1.	Caliper <sup>\$</sup> (Vernier, Dial, Electronic)			Using Caliper Checker By Comparison Method				
	L.C: : 0.01mm <sup>¢</sup>	Up to 600 mm	18.0 μm					
2.	Height Gauge <sup>\$</sup> (Vernier, Dial & Electronic) L.C:: 0.01 mm <sup>‡</sup>	Up to 600 mm	16.0 µm	Using Caliper Checker and Slip Gauge By Comparison Method				
3.	Vernier Depth Gauge <sup>s</sup> L.C: : 0.01 mm	Up to 300 mm	15.0 µm	Using Caliper Checker and Slip Gauge By Comparison Method				
4.	External Micrometer <sup>\$</sup> (Vernier, Dial, Electronic) L.C:: 0.01 mm L.C:: 0.001 mm	Up to 400 mm Up to 300 mm	6.5 µm 3.0 µm	Using Slip Gauge Set By Comparison Method				
5.	Micrometer Setting Standard <sup>\$</sup>	Up to 375 mm	7.1 µm	Using Slip Gauge Set & Comparator With Stand By Comparison Method				
6.	Internal Micrometer-2 Points <sup>\$</sup> L.C:: 0.01 mm	Up to 250 mm	3.7 µm	Using ULM				

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
7.	Depth Micrometer <sup>\$</sup> L.C: : 0.001 mm	Up to 300 mm	3.0 µm	Using Slip Gauge Set By Comparison Method
8.	Dial Gauge - Plunger Type <sup>\$</sup> L.C: 0.001 mm	Up to 25 mm	3.0 µm	Using Dial Caliper Tester By Comparison Method
9.	Dial Gauge – Lever Type <sup>\$</sup> L.C: 0.001 mm	Up to 2.0 mm	2.6 µm	Using Dial Calibration Tester By Comparison Method
10.	Bore Gauge <sup>\$</sup> (For Transmission Accuracy) L.C: 0.001 mm	Up to 1.0 mm	4.0 μm	Using Dial Calibration Tester by Comparison Method
11.	Inside Micrometer <sup>\$</sup> L.C: 0.01 mm	5 mm to 30 mm	3.9 µm	Using Slip Gauge Set & Accessories Set by Comparison Method
12.	Dial Thickness Gauge <sup>\$</sup> L.C: 0.001 mm <sup>\$</sup>	Up to 25 mm	1.0 μm	Using Slip Gauge Set by Direct Comparison Method
13.	Pistol Caliper <sup>s</sup> L.C: 0.01mm	Up to 200 mm	6.0 µm	Using Slip Gauge Set by Direct/Comparison Method
14.	Dial Snap Gauge <sup>\$</sup> L.C: 0.001mm	Up to 150 mm	4.4 μm	Using Slip Gauge Set By Comparison Method
15.	Bevel Protractor <sup>\$</sup> L.C: 5 min	0°-90°-0°	4.6 min	Using Angle Gauge Block Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
16.	Degree Protractor <sup>\$</sup> L.C: 1°C	0°- 90°- 0°	35 min	Using Angle Gauge Block By Comparison Method
17.	Combination Set <sup>\$</sup> L.C: 1°C	0°-90°-0°	35 min	Using Angle Gauge Block By Comparison Method
18.	Engineer's Square <sup>\$</sup> (Squareness)	Up to 150 mm	11.0 μm	Using Slip Gauge Set & Cylindrical Square By Comparison Method
19.	Feeler Gauge/ Shims (Foils) Of Coating Thickness Gauge <sup>\$</sup>	Up to 2 mm	3.0 µm	Using Digital Micrometer By Comparison Method
20.	Plain Plug Gauge/ Measuring Pin /Width Gauge/Length Gauge <sup>s</sup>	Up to 300 mm	2.0 µm	Using ULM
21.	Thread Measuring Wires <sup>\$</sup>	0.17 mm to 6.350 mm	1.5 µm	Using ULM
22.	Plain Snap Gauge <sup>\$</sup>	Up to 2.0 mm > 2.0 mm to 300 mm	2.0 μm 2.0 μm	Using ULM
23.	Thread Plug Gauge <sup>\$</sup> (Effective Diameter Only)	Up to 100 mm	4.0 µm	Using FCDM, Cylindrical Setting Master & Thread Measuring Wire
24.	V-Block <sup>\$</sup> Parallelism Symmetricity Squareness	Up to 150 mm	9.0 μm 9.0 μm 10.0 μm	Using Master Cylinders Square/ Slip Gauge Set & Comparator
25.	Internal Plain Ring Gauge <sup>\$</sup>	3 mm to 300 mm	2.0 µm	Using ULM

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
26.	Internal Thread Ring Gauge <sup>\$</sup>	3 mm to 100 mm	1.5 μm	Using ULM
27.	Holtest /Three Point Micrometer <sup>\$</sup> L.C: 0.001 mm	Up to 100 mm	4.5 μm	Using Setting Ring Set
28.	Cylindrical Setting Master <sup>\$</sup>	Up to 100 mm	1.6 μm	Using ULM
29.	Inside Caliper – Dial Type <sup>\$</sup> L.C: 0.01 mm	Up to 200 mm	5.0 μm	Using Caliper Checker, Slip Gauge & Accessories Set By Comparison Method
30.	Surface Plate*	3000 mm X 3000 mm	$4.6\sqrt{rac{L+W}{100}}$ µm	Using Precision Spirit Level of L.C: 0.01 mm/m
31.	Electronic Height Gauge* L.C: 0.1µm	Up to 600 mm	3.0 µm	Using Slip Gauge
II.	PRESSURE INDICATING DEVICES			
1.	Pressure Gauge#	Up to 0 to 700 kg/cm <sup>2</sup> Up to 0 to 30 kg/cm <sup>2</sup>	6.3 kg/cm <sup>2</sup> 0.6 kg/cm <sup>2</sup>	Using Digital Pressure Gauge by Comparison Method as per DKD R6-1

<sup>\*</sup> Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%

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<sup>\$</sup>Only in Permanent Laboratory

<sup>\*</sup>Only for Site Calibration

<sup>\*</sup>The laboratory is also capable for site calibration however, the uncertainty at site depends on the

prevailing actual environmental conditions and master equipment used.

<sup>o</sup> 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.