Laboratory	Shweta Instruments, 1, Vedkiran Apartment, Kamatwada, Ambad Link Road, Ambad, Nashik, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Calibration	Issue Date	01.08.2015
Certificate Number	C-0960	Valid Until	31.07.2017
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Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
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## I. DIMENSION

1.	Caliper <sup>\$</sup> (Vernier/ Dial/ Electronic) L.C.: 0.01 mm <sup>Φ</sup>	0 to 600 mm	18.0 μm	Using Caliper Checker
2.	Height Gauge <sup>\$</sup> (Vernier/ Dial/ Electronic)			by comparison memor
	L.C.: 0.01 mm <sup>Φ</sup>	Upto 600 mm	16.0 μm	Using Caliper Checker & Slip Gauge Set by Comparison Method
3.	Vernier Depth Gauge <sup>\$</sup> L.C.: 0.01 mm <sup>Φ</sup>	Upto 300 mm	15.0 μm	Using Caliper Checker & Slip Gauge Set by Comparison Method
4.	External Micrometer <sup>\$</sup> (Vernier/ Dial/ Electronic)			
	L.C.: 0.01 mm L.C.: 0.001 mm	0 to 400 mm 0 to 300 mm	6.5 μm 3.0 μm	Using Gauge Block & Slip Gauge Set by Comparison Method
5.	Micrometer Setting Standard	Upto 375 mm	7.1 µm	Using Gauge Block, Slip Gauge Set & Comparator with Stand by Comparison Method

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6.	Internal Micrometer 2-Points <sup>\$</sup>					
	L.C.: 0.01 mm	Upto 200 mm	5.3 μm	Using Slip Gauge Set& Accessories Set, by Direct/Comparison Metho		
7.	Depth Micrometer <sup>\$</sup> L.C.: 0.001 mm <sup>Φ</sup>	Upto 300 mm	3.0 µm	Using Gauge Block & Slip Gauge Set by Comparison Method		
8.	Dial Gauge <sup>\$</sup> (Plunger Type) L.C.: 0.001 mm <sup>Φ</sup>	Upto 25 mm	2.6 µm	Using Dial Calibration Tester by Comparison Method		
9.	Dial Gauge <sup>\$</sup> (Lever Type) L.C.: 0.001 mm <sup>Φ</sup>	Upto 2.0 mm	2.6 µm	Using Dial by Com	Calibration Tester parison Method	
10.	Bore Gauge <sup>\$</sup> (For Transmission Accuracy check only)	Upto 1 mm	4.0 µm	Using Dial by Direct/C	Calibration Tester omparison Method	
11.	Inside Micrometer L.C.: 0.01 mm	5 mm to 30 mm	3.9 µm	Using SI Acces Direct/Co	ip Gauge Ste & sories Set by mparison Method	

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12.	Dial Thickness Gauge <sup>\$</sup> L.C.: 0.001 mm <sup>Φ</sup>	Upto 25 mm	1.0 µm	Using Slip Gauge Set by Direct/Comparison Method	
13.	Dial Snap Gauge <sup>\$</sup> L.C.: 0.001 mm	Upto 150 mm	2.9 µm	Using Gauge Block & Slip Gauge Set by Comparison Method	
14.	Bevel Protractor <sup>\$</sup> L.C.: 5 min	0°-90°-0°	4.0 min	Using Angle Gauge Block by Comparison Method	
15.	Degree Protractor <sup>\$</sup> L.C.: 1° C	0°-90°-0°	35 min	Using Angle Gauge Block by Comparison Method	
16.	Combination Protractor <sup>\$</sup> L.C.: 1° C	₿ 0°-90°-0°	35 min	Using Angle Gauge Block by Comparison Method	
17.	Engineer's Square <sup>\$</sup> (Squareness)	Upto 150 mm	11.0 µm	Using Indicating Square Cylindrical Square by Comparison Method	
18.	Feeler Gauge/Shims (Foils) of Coating Thickness Gauge <sup>\$</sup>	Upto 2 mm	3.0 µm	Using Digital Micrometer by Comparison Method	

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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (±)	Remarks
19.	Plain Plug Gauge/ Measuring Pin <sup>\$</sup>	Upto 300 mm	4.5 μm	Using Gauge Block, Slip Gauge Set & Comparator Stand with Digital Plunger by by Comparison Method
20.	Plain Snap Gauge <sup>\$</sup>	2.0 mm to 300 mm	5.0 µm	Using Gauge Block & Slip Gauge Set by Comparison Method
21.	Thread Plug Gauge <sup>\$</sup> (Effective Diameter Only)	Upto 100 mm	4.0 μm	Using FCDM/ Cylindrical Setting Master/ Thread Master Wires by Direct/Comparison Method
22.	V-Block <sup>\$</sup> Parallelism Symmetricity Squareness	Upto 150 mm Upto 150 mm Upto 150 mm	9.0 μm 9.0 μm 10.0 μm	Using Master Cylinders/ Master Square & Comparator by Direct/Comparison Method
23.	Holetest/Three Point Micrometer <sup>\$</sup> L.C.: 0.01 mm	Upto 100 mm	4.5 μm	Using Setting Ring Set by Direct/Comparison Method

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24.	Inside Caliper <sup>\$</sup> (Dial Type) L.C.: 0.01 mm	Upto 200 mm	5.0 µm	Using Caliper Checker, Slip Gauge & Accessories Set	
25.	Pistol Caliper <sup>\$</sup> L.C.: 0.01 mm $^{\Phi}$	Upto 200 mm	6.0 µm	Using Gauge Block Set by Comparison Method	
26.	Surface Plate *	2000 mm x 2000 mm	4.6 $\sqrt{\frac{L+W}{100}}$ µm Where L is in mm	Using Precision Spirit Level by Direct Comparison Method	
27.	Electronic Height Gauge *	Upto 600 mm	3.0 µm	Using Slip Compa	Gauge by Direct arison Method
II.	PRESSURE				
1.	Hydraulic Pressure <sup>#</sup> Dial & Digital Pressure Gauges	0 to 30 kg/cm <sup>2</sup> 30 kg/cm <sup>2</sup> to 700 kg/cm <sup>2</sup>	0.6 kg/cm <sup>2</sup> 6.3 kg/cm <sup>2</sup>	Digital Pr respective rat Pump by C as pe	essure Gauges of nges–with Hydraulic omparison method r DKD-R6-1

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

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

\*Only for Site Calibration

<sup>Ф</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.

<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.