

Laboratory Nitin Calibration Services, 1st Floor, Datta Park, Uchgaon, Kolhapur, Maharashtra
Accreditation Standard ISO/IEC 17025: 2017
Certificate Number CC-2915 (in lieu of C-0624) **Page** 1 of 4
Validity 09.12.2018 to 08.12.2020 **Last Amended on** 01.01.2019

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Angle Plate ^s Parallelism/ Squareness	Up to 500 mm	11.0 μ m	Using Surface Plate, 2D Height Gauge
2.	Bench Centre ^s	Up to 1000 mm	11.0 μ m	Using Test Mandrel, Dial Indicator
3.	Bore Gauge ^s L.C.: 1.0 μ m Φ	Up to 1 mm	3.0 μ m	Using ULM, Dial Indicator
4.	Caliper ^s (Vernier/Dial/Digital) L.C.: 10 μ m Φ	0 to 1000 mm	15.0 μ m	Using Caliper Checker
5.	Depth Gauge ^s (Vernier/Digital) L.C.: 10 μ m Φ	0 to 300 mm	11.0 μ m	Using Surface Plate, Gauge Block
6.	Depth Micrometer ^s L.C.: 1 μ m Φ	0 to 300 mm	7.7 μ m	Using Surface Plate, Gauge Blocks
7.	Dial Indicator-Lever ^s L.C.: 1 μ m Φ	0 to 1 mm	4.1 μ m	Using Dial Calibration Tester
8.	Dial Indicator- Plunger ^s L.C.: 0.5 μ m Φ L.C.: 1 μ m	+/-0.1 mm 0 to 15 mm	1.3 μ m 1.7 μ m	Using ULM
9.	Dial Snap Gauge ^s	0.5 mm to 200 mm	4.4 μ m	Using Gauge Block, Dial Indicator

Mamta Bharti
Convenor

Avijit Das
Program Manager

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10.	Electronic Height Gauge ^s L.C.: 0.1 μ m Φ	0 to 600 mm	5.5 μ m	Using Gauge Block, Surface Plate
11.	External Micrometer ^s L.C.: 1 μ m L.C.: 10 μ m	0 to 100 mm 0 to 500 mm	2.7 μ m 4.7 μ m	Using Gauge Block
12.	Feeler Gauge ^s	0.03 mm to 1.0 mm	3 μ m	Using Digital Micrometer
13.	Height Gauge ^s (Vernier/Dial/Digital) L.C.: 10 μ m Φ	0 to 1000 mm	18.0 μ m	Using Surface Plate, Caliper Checker
14.	Setting Master ^s	3 mm to 500 mm	4.0 μ m	Using ULM, Gauge Block & Gauge Block Accessories
15.	Inside Caliper ^s L.C.: 10 μ m Φ	10 mm to 150 mm	8.1 μ m	Using Gauge Block, Gauge Block Accessories
16.	Internal Micrometer ^s L.C.: 10 μ m Φ	50 mm to 300 mm	5.6 μ m	Using Gauge Block & Dial Comparator
17.	Lever Dial Gauge ^s L.C.: 10 μ m Φ	Upto 0.8 mm	4.2 μ m	
18.	Measuring Pin ^s	0.5 mm to 20 mm	1.4 μ m	Using Gauge Block Set & Dial Comparator
19.	Micrometer Setting Rod ^s	25 mm to 300 mm 300 mm to 475 mm	2.4 μ m 6.0 μ m	Using Gauge Block, Dial Comparator, ULM
20.	Pistol Caliper ^s L.C.: 100 μ m Φ	0 to 100 mm	67.0 μ m	Using Gauge Block

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21.	Plain Taper Plug Gauge ^{\$} Diameter Angle	Up to 100 mm	6.0 μ m 29 Second	Using ULM, Measuring Pin Set
22.	Plug Gauge/ Setting Master/ Flush Pin Gauge/ O.D. Master ^{\$}	0.2 mm to 150 mm 150 mm to 400 mm 400 mm to 600 mm	2.8 μ m 6.0 μ m 4.3 μ m	Using Gauge Block & Dial Comparator, ULM
23.	Setting Ring Gauge ^{\$}	3 mm to 100 mm 100 mm to 250 mm	1.8 μ m 4.0 μ m	Using ULM, Master Setting Ring, Gauge Block & Gauge Block Accessories
24.	Snap Gauge ^{\$}	1 mm to 100 mm 100 mm to 500 mm	2.1 μ m 4.0 μ m	Using Gauge Block, Long Gauge Block
25.	Surface Plate [*] (Cast Iron/Granite)	3000 mm x 3000 mm	2.5 ($\sqrt{(L+W)/120}$)	Using Level Bottle (10 μ m L.C.)
26.	Surface Roughness Master ^{\$}	Ra-Up to 6.3 Ra and Rz- Up to 25 Rz	11 %	Using Surface Roughness Tester
27.	Surface Roughness Tester ^{\$}	Ra-Up to 6.3 Ra	9 %	Using Surface Roughness Master
28.	Taper Thread Plug Gauge ^{\$}	Up to 50 mm	3.8 μ m	Using ULM, Thread Measuring Wires
29.	Thread Plug Gauge ^{\$}	2 mm to 150 mm	3.2 μ m	Using ULM, Gauge Block, Thread Measuring Wires
30.	Thread Ring Gauge ^{\$}	3 mm to 100 mm	2.0 μ m	Using ULM, Master Setting Ring, Thread Measuring T Stylus

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31.	V Block ^{\$}	Up to 200 mm	8.5 μ m	Using Test Mandrel, Dial Indicator, Surface Plate

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

^{\$}Only in Permanent Laboratory

^{*}Only for Site Calibration

^o 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.

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