Laboratory	**Shriniwas Calibration Laboratory, Plot No. 2, R.S. No. 586/1, MIDC Shiroli, Kolhapur, Maharashtra**
Accreditation Standard	**ISO/IEC 17025: 2005**
Certificate Number	**CC-2744** **Page 1 of 4**
Validity	**22.06.2018 to 21.06.2020** **Last Amended on -**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	MECHANICAL CALIBRATION			
I.	**DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)**			
1.	Calipers[$] (Vernier, Dial, Digital) L.C.: 10 µm L.C.: 20 µm	 0 to 600 mm 0 to 600 mm	 16.0 µm 19.41 µm	Using Caliper Checker as per IS 3651 Part 2 by Comparison Method
2.	Depth Caliper[$] (Vernier, Dial, Digital) L.C.: 10 µm [Φ]	 0 to 300 mm	 11.0 µm	Using Gauge Blocks & Surface Plate as per IS 4213 by Comparison Method
3.	Height Gauge[$] (Vernier, Dial, Digital) L.C.: 10 µm [Φ]	 0 to 600 mm	 16.61 µm	Using Caliper Checker, Surface Plate as per IS 2921 by Comparison Method
4.	External Micrometer[$] (All type) L.C.: 1 µm [Φ]	 0 to 100 mm 100 mm to 400 mm	 1.5 µm 5.23 µm	Using Gauge Blocks as per IS 2967 by Comparison Method
5.	Internal Micrometer[$] L.C. 10 µm 2 Points Overall Length Accuracy with Extension Rod	 0 to 300 mm	 5.46 µm	Using Gauge Blocks & Slip Accessory Set as per IS 2966 by Comparison Method

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
6.	Depth Micrometer[$] L.C.: 1 µm [Φ]	0 to 300 mm	7.41 µm	Using Gauge Blocks by Comparison Method
7.	Dial Indicator [$] (Plunger Type) L.C.: 1 µm L.C.: 10 µm	 0 to 10 mm 0 to 25 mm	 2.6 µm 3.9 µm	 Using Dial Calibration Tester as per IS 2092 for Plunger Dial by Comparison Method
8.	Dial Indicator[$] (Lever Type) L.C.: 1 µm L.C.: 10 µm	 0 to 0.14 mm 0 to 1.0 mm	 2.6 µm 3.15 µm	 Using Dial Calibration Tester as IS 11498 by Comparison Method
9.	Bore Gauge[$] (For Transmission Accuracy)	0 to 1 mm	3.0 µm	Using Dial Calibration Tester by Comparison Method
10.	Plain Plug Gauge/ Width Gauge O.D. Master / Flush Pin Gauge Paddle Gauge[$]	0.5 mm to 100 mm 100 mm to 300 mm 300 mm to 500 mm	2.09 µm 5.03 µm 7.20 µm	Using ULM by Comparison method Using Comparator Stand & Gauge Blocks as per IS 3455 by Comparison Method
11.	Plain Ring Gauge[$]	3 mm to 150 mm 150 mm to 300 mm	3.48 µm 5.84 µm	Using ULM & Gauge Blocks by Comparison Method as per IS 3485
12.	Micrometer Setting Standard Setting Piece / Setting Master[$]	0 to 100 mm 100 mm to 400 mm 400 mm to 500 mm	2.08 µm 5.02 µm 7.22 µm	Using Comparator Stand & Gauge Blocks by Comparison Method

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
13.	Cylindrical Measuring Pin[$]	0.5 mm to 20 mm	1.79 µm	Using Comparator Stand, Electronic Probe & Gauge Blocks by Comparison Method
14.	Thread Measuring Wires[$]	0.5 mm to 6.5 mm	1.78 µm	Using Comparator Stand, Electronic Probe & Gauge Blocks by Comparison Method
15.	Cylindrical Setting Master[$]	1 mm to 100 mm 100 mm to 500 mm	2.08 µm 6.52 µm	Using Comparator Stand, Electronic Probe & Gauge Blocks by Comparison Method
16.	Snap Gauge[$]	1 mm to 100 mm 100 mm to 500 mm	1.3 µm 6.05 µm	Using Gauge Blocks as per IS 3455 by Comparison Method
17.	Dial Snap Gauge[$]	Up to 300 mm	3.36 µm	Using Gauge Blocks & Plunger Dial as per IS 14271 by Comparison Method
18.	Feeler Gauge[$]	0.01 mm to 1 mm	4.38 µm	Using Digital Micrometer as per IS 3179 by Comparison Method
19.	Pistol Caliper[$] L.C.: 100 µm	0 to 100 mm	36.0 µm	Using Gauge Blocks Comparison Method
20.	Inside Caliper[$] L.C.: 10 µm [Φ]	0 to 150 mm	5.0 µm	Using Gauge Blocks & Slip Accessory Set by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
21.	Thread Plug Gauge[$] (Effective Diameter) 3 Wire Method	1.25 mm to 100 mm	2.44 µm	Using ULM and Thread measuring wire as per IS 2334 by Comparison Method
22.	Thread Ring Gauge [$] (Effective Diameter)	3 mm to100 mm	2.91 µm	Using ULM & Setting Master Ring by Comparison Method
23.	Taper Thread Ring Gauge [$] (Effective Diameter)	3 mm to100 mm	2.91 µm	Using ULM & Setting Master Ring by Comparison Method
24.	Taper Thread Plug Gauge [$] (Effective Diameter)	Up to 100 mm	2.93 µm	Using ULM & Setting Master Ring by Comparison Method
25.	Taper Plug Gauge [$]	Up to 100 mm	3 µm	Using ULM & Setting Master Ring by Comparison Method
26.	Taper Ring Gauge [$]	Up to 100 mm	2.92 µm	Using ULM & Setting Master Ring by Comparison Method
27.	Surface Plate[♣]	1000 mm x1600 mm	4 µm $\sqrt{\frac{L+W}{200}}$ L & W in mm	Using Level Bottle as per IS 12937

*** Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%**
[$]Only in Permanent Laboratory
[♣]Only for Site Calibration
[Φ] 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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