

Laboratory Shree Furba Dolma Services, Vikas Colony, Landewadi, Bhosari, Pune, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2623

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Validity 22.03.2018 to 21.03.2020

Last Amended on -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I. DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)				
1.	Height Gauge* L C: 0.001 mm	Up to 1000 mm	5.2 μ m	Using Slip Gauge & Length Bars
2.	Surface Plates* Cast Iron & Granite (Flatness)	Length 3000 X Width 2000 mm	(3.6 * $\sqrt{L+W}$ / 100) μ m, L & W in mm	Using Spirit Level 20 μ m/m
3.	Box Angle Plate* Squareness Parallelism	1 to 6 (600 mm)	11.7 μ m 8.4 μ m	Using Square Master & Plunger Dials Using Plunger Dial Gauge
4.	Angle Plate* Squareness Parallelism	Sizes 1 – 6 (600 mm)	11.7 μ m 8.4 μ m	Using Square Master & Plunger Dials Plunger Dial Gauge
5.	Straight Edge*	length L: 5000 mm	3.6 * \sqrt{L} /100 μ m	Using Spirit Level 20 μ m/m
6.	Bench Centers* Parallelism Co – Axiality	For 300 mm Emax up to 500 mm	6.3 μ m 7.8 μ m	Using Test Mandrel 300 mm, Plunger Dial Plain Mandrel 500 mm, Plunger Dial

Rajeshwar Kumar
Convenor

Avijit Das
Program Director

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
7.	Profile Projector, Optical Microscope & Vision Measuring Machine*	Screen \emptyset / breadth 150 – 1000 mm		
	Magnification	10X to 2000X,	0.22 %	Using Glass master & Digital Caliper, Plain Taper Plug Gauges & Glass scale,
	Angular 0–360° Measurement	0° to 360 °	6.7 Min	
	X & Y Axis stage Travel	Travel: 0 to 200 mm	10.5 μ m	

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

* Only for Site Calibration

Rajeshwar Kumar
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