

Laboratory **E Quality Measurement Services, No. 3/3, Mogappair West, Chennai, Tamil Nadu**

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

Certificate Number **CC-2833**

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Validity **26.09.2018 o 25.09.2020**

Last Amended on **-**

	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Calipers [§] L.C.: 0.01 mm	0 to 300 mm 0 to 1000 mm	11.0 μ m 18.0 μ m	Using Caliper Checker & Gauge Blocks
2.	External Micrometer [§] L.C.: 0.001 mm L.C.: 0.01 mm	0 to 25 mm 0 to 1000 mm	1.2 μ m 20.3 μ m	Using Gauge Blocks & Long slip gauge
3.	Plunger Dial Gauge [§] L.C.: 0.01mm	0 to 25 mm	3.0 μ m	Using Dial Calibration Tester
4.	Lever Type Dial Gauge [§] L.C.: 0.01 mm	0 to 1 mm	3.0 μ m	Using Dial Calibration Tester
5.	Bore Gauge [§] (Only Transmission error) L.C.: 0.001 mm	1.2 mm	6.2 μ m	Using Dial Calibration Tester
6.	Height Gauges / Electronic Height Gauge [§] L.C.: 0.001 mm	0 to 1000 mm	13.2 μ m	Using Caliper Checker, Long Slip & Gauge Blocks

Shally Sharma
Convenor

Anuja Anand
Program Manager

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7.	Depth Micrometer ^{\$} L.C.: 0.01 mm	0 to 150 mm	7.0 μ m	Using Gauge Blocks
8.	Depth Gauges ^{\$} L.C.: 0.01 mm	0 to 300 mm	19.0 μ m	Using Gauge Blocks
9.	Micrometer Setting Standard / Length Bars ^{\$}	25 mm to 600 mm	7.6 μ m	Using Gauge Blocks, Electronic Probe
10.	Feeler Gauge/ Width Gauge ^{\$}	0.04 mm to 2 mm	3.5 μ m	Using Digital Micrometer
11.	Internal Micrometer ^{\$} L.C.: 0.01 mm	50 mm to 1000 mm	14.7 μ m	Using Gauge Blocks
12.	Cylindrical Setting Master ^{\$} Size: 100 mm Runout	0 to 100 mm	3.8 μ m	Using Gauge Blocks & Electronic Probe, FCDMM, Lever Dial
13.	Plain Plug Gauge ^{\$}	1.5 mm to 75 mm	4.1 μ m	Using Gauge Blocks, Electronic Probe & Long Slip Gauge
14.	Snap Gauge ^{\$}	2.5 mm to 350 mm	5.3 μ m	Using Gauge Blocks, Long Slip Gauge & Comparator
15.	Dial Calibration Tester/Micrometer Head ^{\$} L.C.: 0.0002 mm	0 to 25 mm	1.3 μ m	Using Gauge Blocks & Electronic Probe
16.	Thread Plug Gauge / Wear Check Plug Gauge ^{\$}	2.5 mm to 100 mm	7.8 μ m	Using FCDMM, TMW, Cylindrical Setting Master

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17.	Electronic Probe/ LVDT with Probe [§] L.C.: 0.0001 mm	0 to 25 mm	1.8 μ m	Using Gauge Blocks & Comparator
18.	Thread Measuring Wire / Three Wire Set / Measuring Pin [§]	0.17 mm to 20 mm	2.4 μ m	Using Gauge Blocks & Electronic Probe
19.	Dial Caliper Gauge [§] L.C.: 0.01 mm	0 to 100mm	7.3 μ m	Using Gauge Blocks
20.	Test Foils [§]	0.009 mm to 2 mm	3.1 μ m	Using Electronic Probe
21.	Bevel Protractor/ Combination Set/ Digital Protector [§] L.C.: 5'	Up to 180°	3.3 Arc min.	Using Angle Gauge
22.	Coating Thickness Gauge [§]	0 to 1.5 mm	2.3 μ m	Using Foils
23.	Dial Snap Gauge [§] (Parallelism)	0 to 50 mm	1.7	Using Gauge blocks
24.	V Block [§] Parallelism Symmetry Flatness	100 mm X 70 mm	3.8 μ m 3.5 μ m 5.2 μ m	Using Gauge Blocks, Lever Dial Gauge & Surface Plate

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

[§] Only in Permanent Laboratory

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