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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	MECHANICAL CALIBRATION			
I.	**DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC)**			
1.	Caliper[$] (Vernier / Dial / Digital) L.C.10µm [Φ]	0 to 600 mm	17.0 µm	Using Gauge Block Set, Caliper Checker & External Micrometer By Comparison Method
2.	Depth Gauge[$] (Vernier / Dial / Digital) L.C.10µm [Φ] L.C.20µm	Up to 300 mm Up to 500 mm	14.0 µm 20.0 µm	Using Gauge Block Set, & Surface Plate By Comparison Method
3.	Height Gauge[$] (Vernier / Dial / Digital) L.C.10µm [Φ]	0 to 600 mm	14.0 µm	Using Gauge Block Set, Caliper Checker, & Surface Plate By Comparison Method
4.	External Micrometer[$] L.C.1µm L.C.10µm	 0 to 100 mm 0 to 200 mm >200 mm to 600 mm	 2.1 µm 6.7 µm 12.0 µm	Using Gauge Block Set, Length bar By Comparison Method

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5.	Micrometer Setting Rod,Width Gauge, Height Setting Master[$]	Up to 600 mm	6.3 µm	Using Gauge Block Set, Electronic Dial Gauge By Comparison Method
6.	Depth Micrometer [$] L.C. 10µm	Upto 300 mm	11.0 µm	Using Gauge Block Set & Comparator Stand By Comparison Method
7.	Dial Gauge [$] (Plunger Type) L.C. 0.001mm L.C. 0.01mm	 0 to1 mm 0 to 10 mm	 1.3 µm 6.0 µm	 Using U L M By Comparison Method
8.	Dial Gauge[$] (Lever Type) L.C. 1 µm L.C. 10 µm	 0 to 0.20 mm 0 to 1.0 mm	 1.3 µm 6.0 µm	 Using U L M By Comparison Method
9.	Bore Gauge For Transmission Accuracy [$]	Up to 1.0 mm	3.9 µm	Using U L M By Comparison Method
10.	Plain Plug Gauge [$]	Up to 100 mm > 100 mm to 250 mm	1.9 µm 3.7 µm	Using U L M By Comparison Method
11.	Plain Ring Gauge [$]	6mm to 100 mm > 100 mm to 250 mm	2.9 µm 3.8 µm	Using U L M & Master Ring By Comparison Method
12.	Snap Gauge [$]	Up to 100 mm >100 mm to 300 mm	2.4 µm 5.7 µm	Using Gauge Block Set (Carbide) By Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
13.	Thread Plug Gauge $ (Effective Diameter)	Up to 300 mm	3.0 µm	Using U L M, Cylindrical Setting Master & Thread Measuring Wires By Comparison Method
14.	Taper Thread Plug Gauge $ (For Effective Diameter)	Up to 100 mm	3.0 µm	Using U L M, Cylindrical Setting Master & Thread Measuring Wires By Comparison Method
15.	Pistol Caliper $ L.C.: 100µm	Up to 100 mm	71.0 µm	Using Gauge Block Set By Comparison Method
16.	Feeler Gauge $	Up to 1 mm	3.0 µm	Using Digital Micrometer By Comparison Method
17.	OD Master $	Up to 100 mm Up to 250 mm	1.9 µm 4.2 µm	Using U.L.M By Comparison Method
18.	Plain Taper Plug Gauge $ (Diameter at End, Half Incl. Angle)	Up to 100 mm	3.7 µm 70 Sec	Using U.L.M By Comparison Method
19.	Inside Dial Caliper $ (2 Point) L. C.: 0.01 mm	Working Range 2.5 mm	5.8 µm	Using U.L.M By Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
20.	Surface Plate#	4000*4000	$3.0\sqrt{\frac{L+W}{100}}$ µm	Using Sprit Level as per is 7327, 12937& 2285

*** Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%**
$Only in Permanent Laboratory
 # The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.
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.

Vishal Shukla
Convenor

Avijit Das
Program Director