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SI. Quantity Measured / Range/Frequency \*Calibration Measurement Remarks Instrument Capability (±) **MECHANICAL CALIBRATION** DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.) Ι. 1. Cylindrical Measuring 0.1 mm to 20 mm Using Electronic Probe 0.84 μm Pins (Grade 1 & & Slip Gauge Blocks by Coarser)<sup>\$</sup> Comparison Method 2. Setting Standard<sup>\$</sup> Upto 100 mm Using Gauge Blocks, 1.2 μm 100 mm to 600 mm Electronic Probe and Long 9.3 µm Gauge Block by Comparison Method Feeler Gauges<sup>\$</sup> 3. 0.01mm to 2 mm Using Digital Micrometer by 2.4 μm Comparison Method 4. Plain Plug Gauges<sup>\$</sup> 0.1 mm to 100 mm Using Electronic Probe & 1.8 μm 100 mm to 200mm Slip Gauge by Comparison 4.4 μm Method Snap/ Gap Gauges<sup>\$</sup> 5. Upto 100 mm 2.5 μm Using Gauge Blocks, 100 mm to 400 mm Long Gauge Blocks by 6.1 μm Comparison Method V – Blocks<sup>\$</sup> 6. Upto 300 mm Flatness Using Lever Dial & 3.3 µm Parallelism Mandrel, Square Master & 4.9 μm Surface Plate by Symmetricity 4.9 μm Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
7.	Width Gauge <sup>\$</sup>	Upto 50 mm	2.6 μm	Using Electronic Probe & Gauge Blocks by Comparison Method
8.	Thread Measuring Wires / Three Wire Set <sup>\$</sup>	0.17 mm to 20 mm	0.5 μm	Using Electronic Probe & Gauge Blocks by Comparison Method
9.	Cylindrical Setting / Masters <sup>\$</sup> (Only Diameter)	0.1 mm to 100 mm	1.5 μm	Using Electronic Probe & Gauge Blocks by Comparison Method
10.	Flush Pin Gauge <sup>\$</sup>	0.1 mm to 100 mm	2.0 μm	Using Electronic Probe & Gauge Blocks by Comparison Method
11.	Calipers <sup>≸</sup> Vernier / Dial / Electronic L. C. 0.001mm <sup>¢</sup>	Upto 600 mm	11.1 μm	Using Caliper Checker/ Gauge Blocks/ Long Gauge Blocks by Comparison Method
12.	Height Gauge <sup>≸</sup> Vernier / Dial / Electronic L. C. 0.01mm <sup>Φ</sup>	Upto 600 mm	12.0µm	Using Caliper Checker/ Gauge Blocks/ Long Gauge Blocks by Comparison Method
13.	Depth Gauges <sup>\$</sup> Vernier / Dial / Electronic L. C. 0.01mm <sup>¢</sup>	Upto 300 mm	7.9 μm	Using Gauge Blocks/ Long Gauge Blocks by Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
14.	External Micrometer <sup>\$</sup> L. C. 0.001mm <sup>Φ</sup>	Upto 600 mm	6.4 μm	Using Caliper Checker/ Gauge Blocks/ Long Gauge Blocks by Comparison Method
15.	Depth Micrometer <sup>s</sup> L. C. 0.001mm <sup>Φ</sup>	Upto 300 mm	2.7µm	Using Gauge Blocks by Comparison Method
16.	Plunger Dial Gauge <sup>\$</sup> L. C. 0.001mm <sup>Φ</sup> L. C. 0.01 mm	Upto 5 mm Upto 50 mm	2.2 μm 6.2 μm	Using Dial Calibration Tester/ Gauge Blocks by Comparison Method
17.	Lever Type Dial Gauge <sup>\$</sup> L. C. 0.001 mm L. C. 0.001 mm L. C. 0.01 mm	Upto 0.14 mm Upto 0.2 mm Upto 2 mm	2.2 μm 2.4 μm 6.2 μm	Using Dial Calibration Tester by Comparison Method
18.	Electronic Indicator <sup>s</sup> L. C. 0.001mm <sup>¢</sup>	Upto 50 mm	1.5µm	Using Slip Gauge by Comparison Method

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SI. Quantity Measured / Range/Frequency \*Calibration Measurement Remarks Instrument Capability (±) Bore Gauge -9. Using Dial Calibration Dia. Range: 6mm to Analog/Digital<sup>\$</sup> 4.0µm Tester by Comparison 400mm (Only Transmission Method Probing Range: Èrror) Upto 1.0mm Dial Thickness Gauge<sup>\$</sup> 20. L. C. 0.001mm<sup>¢</sup> Upto 2 mm Using Gauge Blocks by 1.0 μm L. C. 0.01mm Upto 50mm Comparison Method 6.0µm 21. Dial Snap Gauge<sup>\$</sup> L. C. 0.001mm<sup>4</sup> Upto 200 mm Using Gauge Blocks by 3.1µm Comparison Method 22. Micrometer Head<sup>\$</sup> L. C. 0.0001 mm<sup>¢</sup> Upto 25 mm Using Electronic Probe by 1.8 μm Comparison Method 23. Dial Caliper Gauge<sup>\$</sup> (External) L. C. 0.01mm<sup>¢</sup> Upto 500 mm Using Gauge Blocks 7.0 μm Accessories by Comparison Method 24. Internal Micrometer<sup>\$</sup> (Two Point) L. C. 0.001 mm<sup>¢</sup> 0 to 300mm Using Slip Gauge & 3.7µm Slip Gauge Accessories Set by Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
25.	Dial Calibration Tester <sup>\$</sup> L. C. 0.0001 <sup>¢</sup>	Upto 50 mm	1.5 μm	Using Slip Gauge & Slip Gauge Accessories Set by Comparison Method
26.	Dial Caliper Gauge <sup>\$</sup> (Internal) L. C. 0.01mm <sup>¢</sup>	5 mm to 300 mm	8.0µm	Using Slip Gauge Blocks & Slip Gauge Accessories by Comparison Method
27.	Electronic Probe <sup>®</sup> L.C.0.0001 <sup>¢</sup>	0 to 25 mm	0.34µm	Using Gauge Blocks by Comparison Method
28.	Comparator Stand / Dial Stand <sup>\$</sup>	Upto 300mm X 300mm	3.9 μm	Using Lever Gauge by Comparison Method
29.	Coating Thickness Gauge <sup>\$</sup>	0.01mm to 1 mm	2.5µm	Using Master Foils by Comparison Method
30.	Master Foils <sup>\$</sup>	0.01mm to 2 mm	1.2µm	Using Electronic Probe by Comparison Method
31.	Bevel Protractor / Combination Set <sup>\$</sup> L.C. 5 <sup>, †</sup>	Upto 360 º	6.5 min.	Using Profile Projector by Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
32.	Floating Carriage Diameter Machine <sup>\$</sup> L.C. 0.0001mm	Upto 175 mm	3.3µm	Using Cylindrical Setting master and Lever Dial by Comparison Method
33.	Steel Scale <sup>\$</sup> L.C. 1.0 mm	Upto 300 mm	150µm	Using Profile Projector by Comparison Method
34.	Thread Pitch Gauge <sup>⁵</sup>	Pitch: 0.6mm to 25mm Angle: 90°	7.4μm 10 arc min	Using Profile Projector by Comparison Method
35.	Taper Scale <sup>\$</sup>	1 mm to 45 mm	13.6 μm	Using Profile Projector by Comparison Method
36.	Three Point Internal Micrometer <sup>\$</sup> L.C 0.001 mm	4mm to 100 mm	5.3 μm	Using Setting Ring Gauge by Comparison Method
37.	Thread Plug Gauge/ Wear Check Plug Gauge <sup>\$</sup>	3 mm to 100 mm	3.5 μm	Using FCDM & Cylindrical Master and Thread Measuring Wire by Comparison Method
38.	Taper Thread Plug Gauge <sup>\$</sup>	3 mm to 100 mm	3.7 μm	Using FCDM & Cylindrical Master and Thread Measuring Wire by Comparison Method

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
39.	Radius Gauge <sup>\$</sup>	0.5 mm to 25 mm	7.5 μm	Using Profile Projector by Direct Method
40.	Surface Plate <sup>#</sup>	3000mm X 3000mm	1.7 { $\sqrt{(W+L)}/100$ }µm Where W & L are in mm	Using Electronic Level by Comparison Method
41.	Electronic Height Gauge <sup>#</sup> L.C. 0.1µm	Upto 600 mm	7.5 μm	Using Gauge Blocks/ Long Gauge Blocks by Comparison Method
42.	Bench Center <sup>#</sup>	Upto 600 mm	6.3 μm	Using Mandrel and Dial Indicator by Direct Method
II.	PRESSURE INDICATI	NG DEVICES		
1.	Pneumatic Pressure Gauge <sup>#</sup>	0 bar to 20 bar	0.14 %	Using Pressure Calibrator as per DKD-R-6-1
2.	Hydraulic Pressure Gauge <sup>#</sup>	0 bar to 700 bar	0.14 %	Using Pressure Calibrator as per DKD-R-6-1
3.	Vacuum Gauge <sup>#</sup>	(-)1 bar to 0.8 bar	0.91 %	Using Pressure Calibrator as per DKD-R-6-1

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SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
III.	WEIGHING SCALE AN	ID BALANCE		
1.	Electronics Weighing Balance <sup>*</sup>			
	Readability: 0.001g	100mg to 310g	1.6mg	Using F1 class standard
	0.01g	200mg to 2.1kg	18mg	weights for 1mg to 200g
	0.2g	100g to 6kg	0.16g	Using F2 class standard
	1g	500g to 15kg	0.78g	weights for 500g to 20kg
	10g	500g to 100kg	8.6g	as per OIML-R-76

\* Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95% <sup>\$</sup>Only in Permanent Laboratory

\*Only in Permanent Laboratory
\*Only for Site Calibration
\* The laboratory is also capable for site calibration however, the uncertainty at site depends on the prevailing actual environmental conditions and master equipment used.
\* 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.