Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2621 1 of 5 Page

Validity 26.09.2018 to 25.09.2020 Last Amended on -

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks		
	MECHANICAL CALIBRATION					
I.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)					
1.	Vernier Calipers ^{\$} (Dial / Digital / Vernier) L.C.:0.01mm	Up to 600 mm 0 to 1000 mm	17 μm 25 μm	Using Caliper Checker/Long Slip Gauge Block By Comparison Method		
2.	Height Gauge [®] (Dial / Digital / Vernier) L.C.:0.01mm L.C.:0.02mm	Up to 600 mm 0 to 100 mm	17 μm 19 μm	Using Caliper Checker/Long Slip Gauge Block By Comparison Method		
3.	Depth Gauge ^{\$} (Dial / Digital / Vernier) L.C.:0.01mm	0 to 300 mm	17 μm	Using Caliper Checker/Long Slip Gauge Block By Comparison Method		
4.	External Micrometer ^{\$} L.C.:0.001mm	0 to 300 mm 300 mm to 1000mm	3 μm 10.5 μm	Using Caliper Checker/Long Slip Gauge Block By Comparison Method		
5.	Depth Micrometer ^s L.C.:0.001mm	0 to 150 mm	8.5 µm	Using Caliper Checker/Slip Gauge Block By Comparison Method		

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2621 Page 2 of 5

Validity 26.09.2018 to 25.09.2020 Last Amended on -

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
6.	Internal Micrometer ^{\$} L.C.:0.01mm	50 mm to 350 mm	8 μm	Using Dial Electronics Probe, Slip gauge Set, Long Slip Gauge By Comparison Method
7.	Dial Thickness Gauge [®] L.C.:0.001mm	0 to 25 mm	6 μm	Using Slip Gauge Set By Comparison Method
8.	Pistol Caliper [®] L.C.:0.1mm	0 to 50 mm	65 µm	Using Slip Gauge Set By Comparison Method
9.	Dial Snap Gauge [®] (Parallelism) L.C.:0.001mm	5 mm to 200 mm	3.1 μm	Using Slip Gauge Set By Direct measurement
10.	Plain Plug Gauge / Width Gauge ^{\$}	Up to 100 mm 100 mm to 300 mm 300 mm to 500 mm	2.5 μm 4 μm 5.5 μm	Using digital Dial, Slip Gauge Set By Comparison
11.	Micrometer Setting Standard ^{\$}	Up to 100 mm 100 mm to 300 mm 300 mm to 775 mm	2.5 μm 4 μm 23 μm	Using Digital Dial/Electronic Probe, Slip gauge Set, Comparator Stand Digital / Dial , Slip Gauge Set By Comparison Method
12.	Measuring Pins ^{\$}	Up to 6 mm	2.5 μm	Using Digital dial, slip Gauge Set By Comparison

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Avijit Das Program Manager

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2621 Page 3 of 5

Validity 26.09.2018 to 25.09.2020 Last Amended on -

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
13.	Feeler Gauge Set/ Coating Thickness Foils \$	0 to 1mm	4.8 μm	Using Digital Dial Slip Gauge Set By Comparison
14.	Coating Thickness Gauge [§]	0 to 1mm	2.9 µm	Using Coating Thickness Foils & Slip Gauge By Comparison Method
15.	Snap Gauge/ Gap Gauge ^{\$}	2 mm to 100 mm 100 mm to 200 mm 200 mm to 500 mm	3 μm 3.5 μm 4.54 μm	Using Slip Gauge Block By Comparison Method
16.	Plunger Dial Gauge ^{\$} L.C.: 0.001mm L. C.: 0.01mm	0 to 1 mm 0 to 10 mm	3 μm 6.5 μm	Using Dial calibration Tester By Comparison Method
17.	Lever Dial Gauge [®] L.C.: 0.001mm L. C.: 0.01mm	0.014 mm 0 to 0.8 mm		Using Dial calibration Tester By Comparison Method
18.	Bore Gauge [®] (Transmission Error)	0 to 1 mm	5.6 μm	Using Dial calibration Tester By Comparison Method
19.	Inside Dial Caliper Two Pin Dial ^{\$} L.C.: 0.01mm	Travel Up to 2 mm & Total Range Up to 75	10 μm	Using Digital Micrometer By Comparison Method
20.	Bevel Protractor [®] L.C.: 5 Min	0-90°	4.1 Min	Using Angle Gauge By Comparison Method

Vishal Shukla Convenor

Avijit Das Program Manager

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

Certificate Number CC-2621 Page 4 of 5

Validity 26.09.2018 to 25.09.2020 Last Amended on -

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
21.	Combination Set Angle Protector \$ L. C.: 1°	0 180°		Using Angle Gauge Angle By Comparison Method
23.	Ultrasonic Thickness Gauge ^{\$} L.C.: 0.1mm	0 to 100mm		Using Slip Gauge Set By Comparison Method
24.	V Block ^{\$} Parallel Block Parallelism/ Symmetricity Perpendicularity	Upto 300 mm		Using Surface Plate, Master Square Dial by Comparison Method
25.	Thread Plug Gauge*	Upto 100 mm		Using FCDM with Dial, CSM, Thread Measuring wire by Comparison Method
26.	Taper Thread Plug Gauge	Upto 100 mm		Using FCDM with Dial, CSM, Thread Measuring wire by Comparison Method
27.	Cylindrical Setting Master	Upto 100 mm	·	Using Slip Gauge, & Electronic Comparator with Stand by Comparison Method
28.	Surface Plate/ Comparator Stand Base [*] (Flatness)	3000 mm x 3000 mm	L & W is in mm	Using Spirit Level By Comparison Method (IS 12937)

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number CC-2621 Page 5 of 5

Validity 26.09.2018 to 25.09.2020 Last Amended on -

SI.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
29.	Electronic Height Gauge [*] L. C.: 0.0001 mm	0 to 600 mm	8.3 µm	Using Slip Gauge /Long Slip Gauge Block By Comparison Method
II.	DIMENSION (PRECISION INSTRUMENTS)			
1.	Profile Projector* Linear Scale L. C.: 0.1 mm Angular Scale L. C.: 1 sec, 1 min/ 5min Magnification	Upto 200 mm Upto 360 Upto 100X	11.0 2.5 1.3 %	Using Slip Gauge, Length Bars, Angle Gauge & Digital Caliper by Comparison Method
III.	PRESSURE INDICATING DEVICES			
1.	Hydraulic Pressure Dial /Digital Pressure Gauge and Calibrator*	0 to 700 bar	6.5 bar	Using Digital Pressure Calibrator by Comparison Method as per DKD R6-01

^{*} Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%

Vishal Shukla Avijit Das
Convenor Program Manager

Sonly 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.