Laboratory	**Truthread Gauges & Tools Pvt. Ltd., T- 83, M.I.D.C. Bhosari, Pune, Maharashtra**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**CC-2842** ***(in lieu of C-0675)***	**Page**	**1 of 4**
Validity	**21.10.2018 to 20.10.2020**	**Last Amended on**	**-**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	MECHANICAL CALIBRATION			
I.	**DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)**			
1.	Calipers[$] (Digital, Dial, Vernier) L.C.: 10 µm [Φ]	Upto 600 mm	17.4 µm	Using Caliper Checker by Comparison Method
2.	Height Gauges[$] (Digital, Dial, Vernier) L.C.: 10 µm [Φ]	Upto 600 mm	18.7 µm	Using Caliper Checker & Surface Plate by Comparison Method
3.	Vernier Depth Caliper[$] L.C.: 20 µm	Upto 150 mm	15.3 µm	Using Gauge Block Sets by Comparison Method
4.	External Micrometer[$] (Digital, Dial, Vernier) L.C.: 1 µm L.C.: 10 µm	 0 to 100 mm 0 to 200 mm	 6.7 µm 6.7 µm	Using Gauge Blocks by Comparison Method
5.	Depth Micrometer[$] L.C.: 10 µm	0 to 50 mm	6.0 µm	Using Gauge Blocks by Comparison Method
6.	Plunger Type Dial Gauges[$] L.C.: 1 µm [Φ]	Upto 25 mm	1 µm	Using ULM & Dial Calibration Tester by Comparison Method
7.	Lever Type Dial Gauges[$] L.C.: 10 µm	Upto 10 mm	4.1 µm	Using Dial Calibration Tester by Comparison Method
8.	Thread Measuring Wire[$]	Upto Ø 6.35 mm	1.0 µm	Using Electronic Comparator by Comparison Method

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Convenor

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Program Manager

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
9.	Cylindrical Pin[$]	Upto Ø 20 mm	1.0 µm	Using Electronic Comparator by Comparison Method
10.	Thread Measuring Prisms[$] (Height of the Prism)	A, B,C & D Type	1.5 µm	Using ULM by Comparison Method
11.	Plain Plug Gauges/ Cylindrical Setting Master[$]	Upto Ø 100 mm Ø 100 mm to Ø 200 mm Ø 200 mm to Ø 350 mm	1.7 µm 2.5 µm 2.8 µm	Using Electronic Comparator by Comparison Method
12.	Plain Ring Gauge[$] (Internal Diameter)	Ø 2.5 mm to Ø 100 mm >Ø 100 mm to Ø 300 mm	1.6 µm 2.1 µm	Using ULM SIP by Comparison Method
13.	Plain Snap Gauge[$]	1 mm to 200 mm >200 mm to 300 mm	2.1 µm 3.0 µm	Using Gauge Block by Comparison Method
14.	Taper Plain Plug Gauge[$] (Diameter At Small End /Large End Taper Angle)	5 mm to 200 mm Upto 30º	4.0 µm 25.4" arc	Using ULM
15.	Taper Plain Ring Gauge[$] (Internal Taper Diameter) Taper Angle	>Ø 5 mm to Ø 100 mm	1.7 µm 59 " arc sec	Using UMM
16.	Thread Plug Gauge[$] Major/ Effective Diameter Minor Diameter Major/ Effective Diameter Minor Diameter	Ø 1 mm to Ø 100 mm >Ø 100 mm to Ø 300 mm	 1.7 µm 3.4 µm 2.6 µm 3.0 µm	Using FCDM, Cylindrical Setting Master & Thread Pin Gauge Using ULM by Comparison Method

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
17.	Thread Ring Gauge[$] (Effective & Minor Diameter) Effective Diameter	 Ø 3 mm to Ø 100 mm Ø 100 mm to Ø 300 mm	 1.8 µm 2.6 µm	Using ULM Using ULM by Comparison Method
18.	Taper Thread Plug Gauge[$] (Major & Effective Diameter Minor Diameter) (Major & Effective Diameter Minor Diameter)	 Ø5 mm to Ø 100 mm Ø 100 mm to Ø 300 mm	 2.0 µm 3.1 µm 3.6 µm	Using FCDM, Cylindrical Setting Master & Thread Pin Gauge Using ULM by Comparison Method
19.	Taper Thread Ring Gauge[$] (Effective Diameter)	 Ø 5 mm to Ø 100 mm	 2.0 µm	Using UMM by Comparison Method
20.	Bore Gauge[$] (Transmission)	Upto 2 mm	2.6 µm	Using Dial Calibration Tester by Comparison Method
21.	Feeler Gauge/ Thickness Gauge[$]	0.02 mm to 2 mm	1.3 µm	Using Electronic Comparator by Comparison Method
22.	Radius Gauge[$]	R 0.6 mm to R 25 mm	13.0 µm	Using Profile Projector by Comparison Method
23.	Thread Pitch Gauge[$] Angle Pitch	 55° & 60° 0.4 mm to 6 mm pitch	 17' arc 13 µm	Using Profile Projector by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
II.	**DIMENSION (PRECISION INSTRUMENTS)**			
1.	Length Bars[$]	Upto 100 mm 100 mm to 200 mm 200 mm to 350 mm	2.0 µm 2.4 µm 3.3 µm	Using Electronic Comparator, Master Length Bars or Gauge Blocks by Comparison Method
2.	Floating Carriage Diameter[$] Linear X-Axis Measurement Measuring Faces Parallelism	0 to 25 mm	 1.7 µm 1.2 µm	Using Gauge Blocks Using Thread Measuring Wire

*** Measurement Capability is expressed as an uncertainty (±) at a confidence probability of 95%**
[$]Only in Permanent Laboratory
[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.

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