Laboratory	**Dodi Instruments, Sr. No. 1/9/14, Khandve Nagar, Kharadi, Pune, Maharashtra**		
Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**CC-2583**	**Page**	**1 of 4**
Validity	**19.11.2018 to 13.02.2020**	**Last Amended on**	**-**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
	MECHANICAL CALIBRATION			
I.	**DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)**			
1.	Caliper [$] Vernier/Dial/Digital) L.C.: 10.0 µm [Φ]	0 to 300 mm 0 to 600 mm	8.20 µm 10.80 µm	Using Caliper Checker & Slip Gauges
2.	Depth Vernier Caliper[$] (Vernier/Dial/Digital) L.C.: 10.0 µm [Φ]	Up to 300 mm	6.50 µm	Using Slip Gauges Set
3.	Height Gauge[$] (Vernier/Dial/ Digital) L.C.: 10.0 µm [Φ]	Up to 600 mm	9.60 µm	Using Caliper Checker & Slip Gauges
4.	External Micrometer[$] (Flange, Blade, Point) L.C.: 1.0 µm L.C.: 10.0 µm	0 to 75 mm 0 to 150 mm > 150 mm to 600 mm	1.50 µm 4.80 µm 6.50 µm	Using Mic-Check Set , Slip Gauge Set & Length Bar
5.	Internal Micrometer[$] L.C.: 10.0 µm	50 mm to 600 mm	10.70 µm	Using Length Bar & Electronic Comparator
6.	Depth Micrometer[$] L.C.: 10 µm	Up to 150 mm	3.60 µm	Using Mic Check Set, Slip Gauge Set
7.	Pistol Caliper [$] L.C.: 100.0 µm	0 to100 mm	37.00 µm	Using Slip Gauge Set

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Accreditation Standard	**ISO/IEC 17025: 2005**		
Certificate Number	**CC-2583**	**Page**	**2 of 4**
Validity	**19.11.2018 to 13.02.2020**	**Last Amended on**	**-**

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8.	Dial Gauge[$] (Plunger Type) L.C.: 1 µm L.C.: 10 µm	 0 to 25 mm 0 to 80 mm	 2.0 µm 4.0 µm	Using Dial Gauge Calibrator & Slip Gauge Set
9.	Dial Gauge[$] (Lever Type) L.C.: 1.0 µm	 0 to 1.0 mm	 1.90 µm	Using Dial Gauge Calibrator
10.	Bore Gauge with Dial[$] (Transmission Accuracy)	Up to 1.6 mm	1.80 µm	Using Dial Gauge Calibrator
11.	Dial Gauge Calibrator[$] L.C.: 0.1 µm	 Up to 25 mm	 1.0 µm	Using Electronic Probe, Slip Gauge Set
12.	Comparator Stand[$] (Base Flatness)	Upto 300 mm	0.66 µm	Using Optical Flats
13.	Electronic Probe[$] L.C.: 0.1 µm	 0 to 25 mm	 0.40 µm	Using Comparator Stand & Slip Gauge Set
14.	Bevel Protractor/ Degree Protractor / Inclinometer [$] L.C.: 5'	 0° - 90°- 0°	 2.90 min. arc	Using Angle Gauge Set
15.	Combination Set[$] L.C.: 1°	 0° - 90°- 0°	 35 min. arc	Using Angle Gauge Set
16.	Plain Plug Gauge/ Measuring Pin[$]	0 to 100 mm	1.0 µm	Using Electronic Probe, Slip Gauge Set
17.	Snap Gauge[$]	1.5 mm to 100 mm > 100 mm to 200 mm	1.10 µm 6.30 µm	Using Slip Gauge Set

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
18.	Micrometer Setting Rod[$]	25 mm to 500 mm	10.90 µm	Using Length Bar, Electronic Probe
19.	Plain Ring Gauge/ Setting Ring Gauge[$]	2.5 mm to 200 mm	2.10 µm	Using Length Measuring Machine & Setting Ring Gauge
20.	Thread Plug Gauge[$] (For Effective Dia.)	2 mm to 200 mm	2.80 µm	Using Length Measuring Machine & Thread Measuring Wire
21.	Thread Ring Gauge[$] (For Effective Dia.)	3 mm to 100 mm	1.86 µm	Using Length Measuring Machine & Setting Ring Gauge
22.	Spline Plug Gauge[$] (Over Pin Dia.)	5 mm to 200 mm	4.50 µm	Using Length Measuring Machine & Measuring Pin
23.	Spline Ring Gauge[$] (Under Pin Dia.)	12 mm to 150 mm	1.60 µm	Using Length Measuring Machine& Slip Gauge Set, Measuring Pin
24.	Feeler Gauge[$] (Thickness)	0.01 mm to 1.0 mm	2.0 µm	Using Comparator Stand & Electronic Probe
25.	V-Block [$] Parallelism Symmetricity Squareness	Up to 150 mm	5.80 µm	Using Cylindrical Masters & Electronic Probe/Plunger Dial
26.	Surface[$] (Flatness)	1000 mm x 1000 mm	$3.0\sqrt{\frac{L+W}{125}}$ µm (L& W in mm)	Using Spirit Level

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Accreditation Standard	**ISO/IEC 17025: 2005**
Certificate Number	**CC-2583** **Page 4 of 4**
Validity	**19.11.2018 to 13.02.2020** **Last Amended on -**

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
27.	Surface Plate[♣] (Flatness)	2000 mm x 1000 mm	$3.0\sqrt{\frac{L+W}{125}}$ µm (L& W in mm)	Using Spirit Level
28.	Electronic Height Gauge[$] L.C.: 0.1 µm	0 to 600 mm 600 mm to 800 mm	6.10 µm 9.10 µm	Using Length Bar, Slip Gauge Set
29.	Electronic Height Gauge[♣] L.C.: 0.1 µm	Upto 600 mm 600 mm to 1000 mm	11.00 µm 12.00 µm	Using Length Bar, Slip Gauge Set
II.	**DIMENSION (PRECISION INSTRUMENTS)**			
1.	Profile Projector[♣] Linear (X-Y Travel) L.C.: 0.001 mm Angular (0°-360°) Magnification	 0 to 300 mm 0°-360° Up to 100 X	 7.0 µm 40 Sec. of Arc 0.8 %	Using Glass Scale, Slip Gauge Set, Angle Block, Vernier Caliper

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