Laboratory	**Aditya Engineering Co. Calibration Laboratory, A/P: Khalad, Tal.: Purandhar, Dist: Pune, Maharashtra**
Accreditation Standard	**ISO/IEC 17025: 2005**
Certificate Number	**CC-2433** ***(In lieu of C-1266)*** **Page 1 of 4**
Validity	**11.09.2017 to 10.09.2019** **Last Amended on 30.10.2017**

MECHANICAL CALIBRATION

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
I.	**DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)**			
1.	Long Gauge Blocks[$]	>100 mm to 200 mm >200 mm to 400 mm > 400mm to 800 mm > 800 mm to 1000 mm	1.1 µm 1.2 µm 1.8 µm 2.2 µm	Using Gauge Block Set 'K' Grade & Gauge Block Calibrator by Comparison Method
2.	Electronic Height Gauge[$] L.C.: 0.1µm	0 to 600 mm	6.1 µm	Using Gauge Block Long Gauge Block & Surface Plate by Comparison Method
3.	Check Master[$]	0 to 600 mm	8.7 µm	Using Check Master; Electronic Probe & Surface Plate by Comparison Method
4.	Internal Micro Checker[$]	0 to 600 mm	8.1 µm	Using Electronic Height Gauge (2D) & Gauge Block by Comparison Method
5.	Depth Micro Checker[$]	0 to 300 mm	6.6 µm	Using Electronic Height Gauge (2D) & Setting Master by Comparison Method

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
6.	Height Master Micrometer Head Screw Error[$] L.C: 1 µm Pitch Block Accuracy Error[$]	 0 to 25 mm 5 mm to 300 mm	 3.1 µm 3.8 µm	Using Block Sets; Long Gauge Block; Electronic Probe & Surface Plate by Comparison Method
7.	Riser Block[$]	Upto 300 mm	4.0 µm	Using Block Sets; Long Gauge Block; Electronic Probe & Surface Plate by Comparison Method
8.	Cylindrical Setting Master[$] Diameter Variation Run out	 Upto 100 mm Upto 100 mm	 1.3 µm 3.2 µm	Using Block Sets; Electronic Probe & Surface Plate by Comparison Method
9.	Plain Plug Gauge[$]	Upto 100 mm > 100 mm to 200 mm > 200 mm to 300 mm > 300 mm to 400 mm	1.6 µm 2.7 µm 3.5 µm 4.2 µm	Using ULM by Comparison Method
10.	Plain Ring Gauge[$]	Upto 100 mm >100 mm to 200 mm >200 mm to 300 mm	1.8 µm 2.4 µm 3.1 µm	Using Master Ring Gauges & ULM by Comparison Method
11.	Cylindrical Measuring Pin[$]	0.5 mm to 20 mm	1.8 µm	Using ULM by Comparison Method
12.	Thread Plug Gauge[$]	Upto 100 mm	5.2 µm	Using FCDM; Cylindrical Setting Master & Thread Measuring Wire by Comparison Method

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
		>100 mm to 200 mm	2.9 µm	Using ULM & Thread Measuring Wire by Comparison Method
13.	Thread Measuring Wires[$]	0.17 mm to 6.35 mm	1.2 µm	Using ULM by Comparison Method
14.	Thread Measuring Prism [$] (A, B,C,D)	0 to 5mm	0.8 µm	Using Gauge Block Sets; Electronic Probe & Surface Plate by Comparison Method
15.	Thread Ring Gauge[$]	Upto 100 mm	1.8 µm	Using ULM by Comparison Method
16.	Dial Snap Gauge[$]	0 to 300 mm	4.0 µm	Using Gauge Block Sets; Electronic Probe by Comparison Method
17.	Adjustable Snap Gauge[$]	0 to 300 mm	4.0 µm	Using Granite Surface Plate; Parallel Block; Electronic Micro Indicator by Comparison Method
18.	Dial Calibration Tester[$]	0 to 25 mm	0.8 µm	Using Electronic Probe by Comparison Method
19.	Roundness Testing Machine[$] Roundness Straightness	 Ø 300 mm Upto 300 mm	 0.1 µm 1.9 µm	 Using Hemisphere by Comparison Method Using Master Cylinder by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (±)	Remarks
II.	**DIMENSION (PRECISION INSTRUMENTS)**			
1.	Single Axis Measuring Machine[$] L. C: 0.1 µm	0 to 100 mm	1.0 µm	Using Gauge Block Sets using Comparison Method
2.	Caliper Checker[$]	0 to 600 mm	8.1 µm	Using Electronic Height Gauge (2D) & Surface Plate by Comparison Method
3.	Floating Carriage Diameter Measuring Machine up to 175mm Micrometer Head[$] L.C: 0.1 µm Alignment of Centre of Axis to Guide Ways	0 to 25 mm Up to 300 mm	2.6 µm 3.8 µm	Using Mic Check Gauge Block by Comparison Method Using Electronic Probe; Plain Mandrel & Surface Plate by Comparison Method
4.	Gauge Block Set[$]	Upto 25 mm >25 mm to 50 mm > 50 mm to 100 mm	0.11 µm 0.15 µm 0.23 µm	Using Gauge Block Set 'K' Grade & Gauge Block Calibrator by Comparison Method

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

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