

Laboratory Ameya Cal Tech Solutions, Sumangal Nagar Karve Naka, Goleshwar, Karad, Dist. Satara, Maharashtra
Accreditation Standard ISO/IEC 17025: 2005
Certificate Number CC-2740 **Page** 1 of 3
Validity 22.06.2018 to 21.06.2020 **Last Amended on** -

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
<u>MECHANICAL CALIBRATION</u>				
1.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Plain Plug Gauge/ Width Gauge / Setting Plug / Height Master ^{\$}	1 mm to 100 mm 100 mm to 300 mm	1.4 μ m 4.7 μ m	Using Universal Length Measuring Machine, Dial Comparator Stand & Gauge Block Set
2.	Plain Ring Gauges ^{\$}	3 mm to 150 mm 150 mm to 250 mm	2.0 μ m 3.3 μ m	Using Universal Length Measuring Machine & Master Ring Gauge
3.	Thread Plug Gauges/WCP/ Check Plug Gauge ^{\$} (Effective Diameter)	1 mm to 125 mm	2.5 μ m	Using Thread Measuring Wires & Universal Length Measuring Machine
4.	Thread Ring Gauges/WCR/Check Ring Gauges ^{\$} (Effective Diameter)	3 mm to 100 mm	2.0 μ m	Using Universal Length Measuring Machine & Master Ring Gauge
5.	Snap Gauge/ Gap Gauges ^{\$}	2 mm to 300 mm	2.8 μ m	Using Gauge Block / Long Gauge Block Set
6.	Vernier Caliper ^{\$} (Dial/Digital /Analog) L.C.: 0.01 mm	0 to 600 mm	16.2 μ m	Using Caliper Checker
7.	Depth Caliper ^{\$} (Dial/Digital/Analog) L.C.: 0.01 mm	0 to 300 mm	12.5 μ m	Using Caliper Checker, Long Gauge Blocks

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Convenor

Anuja Anand
Program Manager

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8.	Height Gauge ^{\$} (Dial/Digital/Analog) L.C.: 0.01 mm	0 to 600 mm	14.0 μ m	Using Caliper Checker, & Surface Plate
9.	External Micrometer ^{\$} L.C.: 0.001 mm L.C.: 0.01 mm	0 to 150 mm 150 mm to 300 mm	1.5 μ m 4 μ m	Using Gauge Block Set / Length Bar
10.	Plunger Dial Gauge ^{\$} L.C.: 0.001 mm	0 to 25 mm	1 μ m	Using Universal Length Measuring Machine
11.	Lever Dial Gauge ^{\$} L.C.: 0.01 mm L.C.: 0.002 mm L.C.: 0.001 mm	0 to 0.8 mm 0 to 0.2 mm 0 to 0.14 mm	3 μ m 1 μ m 1 μ m	Using Universal Length Measuring Machine
12.	Bore Gauge / Two Pin Dial ^{\$} (Transmission Error) L.C.: 0.001 mm	0.01 mm to 1 mm	2.8 μ m	Using Universal Length Measuring Machine
13.	Micrometer Setting Standard ^{\$}	25 mm to 275 mm	4.7 μ m	Using Comparator Stand with Dial & Gauge Block Set
14.	Measuring Pin ^{\$}	0.1 mm to 20 mm	4.1 μ m	Using Comparator Stand with Dial & Gauge Block Set
15.	Feeler Gauge ^{\$}	0.05 mm to 1 mm	4.2 μ m	Using Comparator Stand with Dial & Gauge Block Set
16.	Dial Thickness Gauge ^{\$} L.C.: 0.01 mm	0 to 10 mm	8.0 μ m	Using Gauge Blocks Set

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability ($\pm$)	Remarks
17.	Pistol Caliper [§] L.C.: 0.1 mm	0 to 50 mm	78 μ m	Using Gauge Blocks Set
18.	Dial Snap Gauges [§] L.C.: 0.001 mm	0 to 100 mm	2.5 μ m	Using Gauge Block Set

* Measurement Capability is expressed as an uncertainty ($\pm$) at a confidence probability of 95%

[§]Only in Permanent Laboratory

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