



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

M.A. CALIBRATION, 1ST FLOOR, GUT NO 1327, A/P SHIRWAL, SATARA,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2924

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Validity

23/02/2021 to 22/02/2023

Last Amended on

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Inclinometer (L.C.: 1 min)	Using Angle Gauge Set by Comparison Method	0 to 90° to 0	4min of arc
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Length Bar & Gauge Block Set by Comparison Method	0 to 1000 mm	13.30µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Caliper Checker by Comparison Method	0 to 600 mm	11.50µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge / DFT Meter (L.C.: 0.0001 mm & coarser)	Using Thickness Foils by Comparison Method	0 to 2000 um	7µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set / Angle Protractor (L.C.: 1°)	Using Angle Gauge Set by Comparison Method	0 to 180° to 0	36 min of arc
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of Working Base)	Using Lever Dial & Surface Plate	Up to 300 mm	3.70µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Gauge Block Set & Surface Plate by Comparison Method	0 to 300 mm	11µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using length bar, Caliper Checker & Surface Plate by Comparison Method	0 to 600 mm	16µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm & coarser)	Using Gauge Block Set & Surface Plate by Comparison Method	0 to 300 mm	7.50µm



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge - transmission Mechanism (L.C.: 0.001 mm)	Using Electronic Dial Calibration Tester & Master Plunger Dial Gauge by Comparison Method	0 to 1 mm	3.00µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge (L.C.: 0.001 mm)	Using Gauge Blocks by Comparison Method	0 to 250 mm	3.60µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.001 mm)	Using Gauge Blocks by Comparison Method	0 to 25 mm	4.63µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Gauge (L.C. 0.0001 mm & coarser)	Using Length Bar & Gauge Block Set by Comparison Method	0 to 1000 mm	9.0µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Gauge (L.C. 0.0001 mm & coarser)	Using Length Bar & Gauge Block Set by Comparison Method	0 to 600 mm	7µm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe/ Dial with Comparator LC 0.1 µm	Using Gauge Block Set by Comparison Method	0 to 25 mm	2.8µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm & coarser)	Using Gauge Block Set by Comparison Method	0 to 100 mm	2.30µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm & coarser)	Using Gauge Block Set & Length Bar Set by Comparison Method	100 mm to 300 mm	5.50µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm & coarser)	Using Gauge Block Set & Length Bar Set by Comparison Method	300 mm to 500 mm	7.55µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm & coarser)	Using Gauge Block Set & Length Bar Set by Comparison Method	500 mm to 1000 mm	10.00µm



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic Comparator by Comparison Method	0 to 2 mm	1.52µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Caliper Checker, Length Bars & Surface Plate by Comparison Method	0 to 1000 mm	13.60µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Caliper Checker, Length Bars & Surface Plate by Comparison Method	0 to 600 mm	11.80µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer 2 Points Basic Travel of Micrometer L.C.: 10 µm	Using Gauge block Set, Electronic Comparator with Stand by Comparison Method	50 mm to 63 mm	3.4µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer 2 Points Overall Length Accuracy with Extension Rod (Stick) L.C 10 µm	Using Gauge Block Set, Length Bar & Comparator Stand by Comparison Method	Up to 300 mm	4.9µm



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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer 2 Points- Overall Length Accuracy with Extension Rod (Stick) L.C 10 µm	Using Gauge Block Set, Length Bar & Comparator Stand by Comparison Method	Up to 1000 mm	11.10µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.001 mm)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 0.14 mm	2.70µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.001 mm)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 0.20 mm	2.70µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever type Dial Gauge (L.C.: 0.01 mm)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 0.8 mm	3.90µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins	Using Electronic Comparator by Comparison Method	0 to 20 mm	1.50µm



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30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Electronic Comparator, Slip Gauge & Length Bar by Comparison Method	100 mm to 300 mm	6.00µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Electronic Comparator, Slip Gauge by Comparison Method	25 mm to 100 mm	2.50µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Electronic Comparator, Slip Gauge & Length Bar by Comparison Method	300 mm to 500 mm	9.00µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Electronic Comparator, Slip Gauge & Length Bar by Comparison Method	500 mm to 1000 mm	12.40µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.:0.1 mm)	Using Gauge Block Set by Comparison Method	0 to 100 mm	76µm



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35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Gap Gauge / Snap Gauge	Using Slip Gauges by Comparison Method	100 mm to 250 mm	4.30µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Gap Gauge / Snap Gauge	Using Slip Gauges by Comparison Method	3 mm to 100 mm	1.80µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width Gauge / Height Master	Using Electronic Comparator & Slip Gauge by Comparison Method	1 mm to 100 mm	2.20µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width Gauge / Height Master	Using Electronic Comparator & Slip Gauge by Comparison Method	100 mm to 250 mm	4.50µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial (L.C.: 0.001 mm & coarser)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 25 mm	2.60µm



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40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial (L.C.: 0.001 mm & coarser)	Using Electronic Dial Calibration Tester by Comparison Method	0 to 50 mm	3.90µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Right Angle / Engineers Square - Squareness	Using Granite Square & Gauge Blocks by Comparison Method	Up to 600 mm	13µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using Electronic Comparator by Comparison Method	0 to 2 mm	1.50µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.01 mm)	Using Height Master Set by Comparison Method	Up to 200 mm	90µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism)	Using Straight Mandrel & Lever Dial by Comparison Method	Up to 300 mm	5.2µm



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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Squareness)	Using Granite Square & Gauge Blocks by Comparison Method	Up to 300 mm	9.9µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Symetricity)	Using Straight Mandrel & Lever Dial by Comparison Method	Up to 300 mm	5.2µm
47	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Dial / Digital Pressure Gauges)	Digital Pressure gauge with hydraulic pumpComparison method	>350 bar to 700 bar	0.60bar
48	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Dial / Digital Pressure Gauges)	Digital Pressure Gauge with hydraulic pump Comparison method	0 to 350 bar	0.41bar
49	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Dial / Digital Pressure Gauges)	Digital Vacuum Gauge with vacuum pump Comparison method	0 to 25 bar	0.36bar
50	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Dial / Digital Gauges)	Digital Vacuum Gauge with vacuum pump Comparison method	-0.85 bar to 0	0.020bar



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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Gauge (L.C. 0.0001 mm & coarser)	Using Length Bar & Gauge Block Set by Comparison Method	0 to 1000 mm	9.0µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Gauge (L.C. 0.0001 mm & coarser)	Using Length Bar & Gauge Block Set by Comparison Method	0 to 600 mm	7µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite / Cast Iron)	Using Precision Spirit Level by Comparison Method	1500 mm to 1500 mm	3.7 x Sqrt { (L+W) / 150 } µm (where L & W are in mm)
4	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Dial / Digital Pressure Gauges)	Digital Pressure gauge with hydraulic pump Comparison method	>350 bar to 700 bar	0.60bar
5	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure (Dial / Digital Pressure Gauges)	Digital Pressure Gauge with hydraulic pump Comparison method	0 to 350 bar	0.41bar



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6	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Dial / Digital Pressure Gauges)	Digital Vacuum Gauge with vacuum pump Comparison method	0 to 25 bar	0.36bar
7	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Dial / Digital Gauges)	Digital Vacuum Gauge with vacuum pump Comparison method	-0.85 bar to 0	0.020bar

* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of k = 2.