National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : NAB GAUGE PVT.LTD, B-96,MIDC, AHMEDNAGAR, MAHARASHTRA, INDIA
Accreditation Standard ISO/IEC 17025:2017
Certificate Number CC-3653 **Page No** 1 of 6
Validity 25/07/2023 to 24/07/2025 **Last Amended on** 02/08/2023

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.)	Calipers - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 600 mm	10.33µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Length Bar by Comparison Method	0 to 1000 mm	13.7 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.01 mm)	Using Slip Gauge and Surface Plate by Comparison Method	0 to 50 mm	6µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier (L.C.: 0.02 mm)	Using Slip Gauge, Caliper Checker and Surface Plate by Comparison Method	0 to 300 mm	13.20µm

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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge by Comparison Method	0 to 150 mm	2.63µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Slip Gauge by Comparison Method	150 mm to 300 mm	4.7µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 600 mm	10µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using ULM by Comparison Method	2 mm to 20 mm	0.91µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width Gauge	Using Comparator Stand with Dial Indicator and Slip Gauge by Comparison Method	2 mm to 300 mm	6.16µm

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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM Measuring Machine, Master Ring Gauge by Comparison Method	2 mm to 300 mm	4µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C.: 1 µm)	Using ULM by Comparison Method	0 to 25 mm	0.92µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C.: 10 µm)	Using ULM by Comparison Method	0 to 50 mm	2.92µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Comparison Method	1 mm to 50 mm	9.1µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (Gap Gauge)	Using Slip Gauge Set by Comparison Method	2 mm to 300 mm	4.31µm

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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge - Angle	Using ULM, Measuring Pin and Slip Gauge by Comparison Method	0 to 90 °	31second of arc
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge - Major Diameter	Using ULM Measuring Machine by Comparison Method	2 mm to 100 mm	3.23µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - Effective Diameter	Using Floating Carriage Diameter Measuring Machine by Comparison Method	2 mm to 100 mm	2.24µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Angle	Using Profile Projector by Comparison Method	25° & 60 °	5minute of arc
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Pitch	Using Profile Projector by Comparison Method	1 mm to 8 mm	8.4µm

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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Major Diameter, Effective Diameter	Using ULM Measuring Machine, Setting Master and Thread Measuring Wire by Comparison Method	100 mm to 300 mm	4.1µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Major Diameter, Effective Diameter	Using Floating Carriage Diameter Measuring Machine, Setting Master and Thread Measuring Wire by Comparison Method	2 mm to 100 mm	2.85µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge	Using ULM Measuring Machine, Master Ring Gauge by Comparison Method	2 mm to 300 mm	4.2µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V- Block - Parallelism	Using Test Mandrel ,Plunger Dial and Surface Plate by Comparison Method	0 to 150 mm	7.96µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V- Block - Squareness	Using Square Master, Slip Gauge and Surface Plate by Comparison Method	0 to 150 mm	16.1µm

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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V- Block - Symmetric	Using Test Mandrel, Plunger Dial and Surface Plate by Comparison Method	0 to 150 mm	8 µm

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