



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	ZAWAR GAUGES AND TOOLS PVT LTD, S 25 PARVATI INDUSTRIAL ESTATE, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-4047	Page No	1 of 7
Validity	11/09/2024 to 10/09/2026	Last Amended on	-

Permanent Facility					
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)(±)
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Dial L.C.: 0.0005 mm	Using Length Measuring Machine by Comparison Method	0 to 1 mm	0.98 μm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Concentricity)	Using Floating Carriage Micrometer & Dial Gauge on stand by Comparison Method	3 mm to 100 mm	2.9 μm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Diameter)	Using Length Measuring Machine by Comparison Method	3 mm to 100 mm	1.1 μm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	1.2 μm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	4.08 μm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Length Measuring Machine by Comparison Method	0.03 mm to 2 mm	0.95 μm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Length Measuring Machine by Comparison Method	0.1 mm to 20 mm	0.95 μm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Length Measuring Machine by Comparison Method	25 mm to 200 mm	1.4 μm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Thread Plug Gauge Effective Dia./ Major Dia.	Using Length Measuring Machine & Thread Measuring Wire by Comparison Method	1 mm to 200 mm	2.5 μm



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Thread Plug Gauge Effective Dia./ Major Dia.	Using Length Bars, Length Measuring Machine & Thread Measuring Wire by Comparison Method	200 mm to 400 mm	2.18 μm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Length Measuring Machine by Comparison Method	0.20 mm to 200 mm	1.4 μm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Length Measuring Machine and Length Bars by Comparison Method	200 mm to 400 mm	1.6 μm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge (Internal Dia.)	Using Length Measuring Machine & Master Ring Gauge by Comparison Method	3 mm to 200 mm	1.46 μm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge (Internal Dia.)	Using Length Bars and Length Measuring Machine & Master Ring Gauge by Comparison Method	200 mm to 300 mm	2.4 μm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (L.C.: 0.001 mm)	Using Length Measuring Machine by Comparison Method	0 to 50 mm	1.12 μm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (L.C.: 0.01 mm)	Using Length Measuring Machine by Comparison Method	0 to 50 mm	2.26 μm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Comparison Method	1 mm to 25 mm	7.3 μm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Length Measuring Machine / Gauge Block by Comparison Method	1 mm to 100 mm	1.07 μm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Length Measuring Machine by Comparison Method	100 mm to 300 mm	2.0 μm



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge (External Dia.)	Using Length Measuring Machine & Measuring Pin by Comparison Method	5 mm to 200 mm	3.5 μm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge (Half Angle)	Using Length Measuring Machine & Measuring Pin by Comparison Method	5 mm to 200 mm	13 " arc
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge (Half angle)	Using Length Measuring Machine & Master Ring Gauge by Comparison Method	5 mm to 100 mm	5 " arc
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge Dia.	Using Length Measuring Machine & Master Ring Gauge by Comparison Method	5 mm to 100 mm	1.8 μm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Dia./ Major Dia.)	Using Length Measuring Machine & Thread Measuring Wire by Comparison Method	1 mm to 200 mm	3.1 μm



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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Dia./ Major Dia.)	Using Length Measuring Machine & Thread Measuring Wire by Comparison Method	200 mm to 300 mm	2.97 μm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge Effective Dia.	Using Length Measuring Machine & Master Ring Gauge Machine by Comparison Method	3 mm to 100 mm	1.74 μm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness foil	Using Length Measuring Machine by Comparison Method	0.05 mm to 2 mm	0.95 μm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Length Measuring Machine by Comparison Method	0.17 mm to 6.35 mm	0.94 μm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Flank Angle	Profile Projector by Comparison Method	55° to 60°	18 min



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30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Thread Pitch Gauge - Pitch Value	Profile Projector by Comparison Method	0.25 mm to 10 mm	7.4 μm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge Effective Dia./ Minor Dia.	Using Length Measuring Machine & Master Setting Ring by Comparison Method	200 mm to 300 mm	1.68 μm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge Effective Dia./ Minor Dia.	Using Length Measuring Machine & Master Setting Ring by Comparison Method	3 mm to 200 mm	1.56 μm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Length Measuring Machine by Comparison Method	0.20 mm to 200 mm	1.4 μm

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