



# 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**

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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)( $\pm$ )
Permanent Facility					
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 $\mu$ m
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 $\mu$ m
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 $\mu$ m
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 $\mu$ m



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2 of 7

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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 $\mu$ m
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 $\mu$ m
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 $\mu$ m
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 $\mu$ m
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 $\mu$ m



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3 of 7

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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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4 of 7

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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 $\mu$ m
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 $\mu$ m
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Comparison Method	1 mm to 25 mm	7.3 $\mu$ m
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 $\mu$ m
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Length Measuring Machine by Comparison Method	100 mm to 300 mm	2.0 $\mu$ m



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5 of 7

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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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6 of 7

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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 $\mu$ m
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 $\mu$ m
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 $\mu$ m
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 $\mu$ m
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 - Pitch Value	Profile Projector by Comparison Method	0.25 mm to 10 mm	7.4 $\mu$ m
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 $\mu$ m
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 $\mu$ m
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 $\mu$ m

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