



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CALIBER GAUGES & INSTRUMENTS LABORATORY, S. NO. 14/1, DATTADIGAMBER COLONY B, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 07/07/2022 to 06/07/2024 **Last Amended on** 09/08/2022

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-ACCELERATION AND SPEED	Centrifuge / RPM (Non-Contact Type)	Using Digital Tachometer as per sanas TR 45 -01	100 rpm to 8000 rpm	2.1 rpm to 62 rpm
2	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/ RPM (Contact Type)	Using Digital Tachometer as per sanas TR 45 -01	100 rpm to 8000 rpm	1.7 rpm to 18.9 rpm
3	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and variable RPM source as per sanas TR 45 -01	100 rpm to 8000 rpm	1.7 rpm to 18.9 rpm
4	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer and variable RPM source as per sanas TR 45 -01	100 rpm to 90000 rpm	2.1 rpm to 62 rpm
5	MECHANICAL-ACOUSTICS	Sound Level Meter @1kHz	Using Sound Level Calibrator by direct method	114 dB	1.62 dB
6	MECHANICAL-ACOUSTICS	Sound Level Meter @1kHz	Using Sound Level Calibrator by direct method	94 dB	1.33dB
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Square Master / Right angle/Engineer Square/ Square Cylinder (Parameter - Squareness)	Using Square Master, Gauge Block by comparison method	0 to 600 mm	7.8µm



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8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge (Plate type)	Using Video Measuring Machine by comparison Method	0 ° to 90 °	6'
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge Block	Using Auto collimator and angle gauge block by comparison method	0 ° to 90 °	1.5"
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Parameter Squareness, Parallelism, Flatness)	Using Square Master, Electronic Level Meter, Lever Dial, Gauge block by comparison method	Up to 600 mm	7.8µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angular Scale	Using Video Measuring Machine by Comparison Method	0 ° to 360 °	7"
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ball Indentor	Using VMM by comparison method	0 to 15 mm	3µm



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13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center	Using Plain Mandrel, Lever Dial by comparison method	Up to 600 mm	2.5µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector/ Inclinometer/ Degree Protector/ Combination set/ clinometer L.C: 0.01°	Using Angle Gauge Block, MSTC, Electronic height gauge by comparison method	0 ° to 360 °	3.1'
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Transmission Accuracy only) L.C 0.001 mm	Using LMM by comparison method	0 to 2 (Transmission error) mm	3.5µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier/Dial/Digital) L.C 0.01 mm	Using caliper checker, Length bar by comparison method	0 to 1000 mm	22µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier/Dial/Digital) L.C 0.01 mm	Using Caliper Checker , Length Bar by comparison method	0 to 600 mm	16µm



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18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge	Using Coating Thickness Foils by Comparison Method.	0 to 3 mm	7.5µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Base (Parameter - Flatness)	Using Optical Flat by comparison method	up to 100 mm	0.7µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Base (Parameter - Flatness)	Using Electronic Probe and Surface Plate by comparison method	Up to 200 mm	1.2µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube mould / Beam mould / Cylindrical mould / Bar mould	Using Electronic height gauge by comparison method	Up to 300 mm x 300 mm	16.46µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master / Cylindrical Disc / O.D Master/Height Master (Parameter- Diameter, Concentricity)	Using Electronic Probe, Gauge Block, sine center, FCDM by comparison method	Up to 100 mm	0.91µm



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23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master / Cylindrical Disc / OD master/Height Master (Parameter-Diameter, Concentricity)	Using Electronic Probe, Gauge Block, Bench center by comparison method	100 mm to 200 mm	1.5µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (Vernier/Dial/Digital) L.C. 0.01 mm	Using Gauge Block, Long Gauge Block, Surface Plate by comparison method	0 to 600 mm	16µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C: 0.001 mm	Using Gauge Block, Long Gauge Block, Surface plate by comparison method	0 to 300 mm	4.2µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge (Parameter-Flatness, parallelism)	Using Optical Flat & Gauge Block by comparison method	0 to 200 mm	2.5µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C. 0.001 mm	Using Gauge Block by Comparison Method	0 to 100 mm	5.9µm



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28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Gauge (Parameter - Linear/ Squareness) L.C: 0.0001mm	Using Long Gauge Block, Square Master by Comparison Method	0 to 1000 mm	3.0µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic level L.C: 1 µm/m	Using Auto colimator by comparison method	Up to 2 mm/m	1.1µm/m
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe L.C: 0.0001mm	Using Gauge Block by comparison method	0 to 25 mm	0.3µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel (Parallism)	Using Lever Dial, Surface Plate by comparison method	Up to 100 mm	2µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge/ Paint Thickness foil/ Coating thickness foil	Using LMM by comparison method	Up to 3 mm	1.0µm



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33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge / Elongation Gauge	Using Electronic Height Gauge/ Vernier Caliper by Comparison method	Up to 300 mm	19.22µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C. 0.01 mm	Using Caliper Checker, Length Bar, Surface Plate by comparison method	0 to 600 mm	11µm
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C: 0.01 mm	Using Caliper Checker, Length Bar, Surface Plate by comparison method	0 to 1000 mm	22µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inspection fixture/ Relation Gauge/ CD/ PCD Gauge (Parameter- length, height, depth, angle, CD)	Using Electronic Height Gauge by Comparison Method	Up to 300 mm	8.7µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal / Inside Caliper L.C: 0.001 mm	Using LMM by comparison method	0 to 150 mm	6.0µm



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38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Micrometer Head Extension Rod) L.C: 0.001mm	Using LMM & Comparator Stand with long slip by comparison method	0 to 1000 mm	9.5µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Micrometer Head, Extension Rod) L.C: 0.001mm	Using LMM & Comparator Stand with long slip by comparison method	0 to 100 mm	2µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Micrometer Head, Extension Rod) L.C: 0.001mm	Using LMM & Comparator Stand with long slip by comparison method	0 to 400 mm	4.0µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Laser distance meter	Using Measuring Tape & Scale machine by comparison method	0 to 1000 mm	22.2 µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial L.C: 0.0001mm	Using LMM, UMM, Laser interferometer by comparison method	0 to 2 mm	0.08µm



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43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial L.C: 0.01mm	Using LMM by comparison method by comparison method	0 to 2 mm	3.0µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using LMM by comparison method.	Up to 20 mm	0.8µm
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale L.C: 1/ 0.5 mm	Using Tape & Scale Measuring Machine by comparison method	0 to 2000 mm	(80 x Sq. root L) µm Where L in m
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/ Pie Tape L.C: 1 mm/ 0.1 mm	Using Tape & Scale Measuring Machine by comparison method	0 to 50000 mm	(80 x Sq. root L) µm Where L in m
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Electronic Probe, Gauge Block by comparison method	200 mm to 500 mm	5.2µm



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48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Electronic Probe, Gauge Block by comparison method	500 mm to 1000 mm	5.46µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Electronic Probe, Gauge Block by comparison method	Up to 200 mm	2.0µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer L.C. 0.001 mm	Using Gauge Block, Length Bar, Micrometer Stand by comparison method	0 to 100 mm	2.0µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer L.C: 0.001 mm	Using Gauge Block, Long Gauge Block, Length Bar, Micrometer Stand	100 mm to 300 mm	2.8µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer L.C: 0.001 mm	Using Gauge Block, Long Gauge Block, Length Bar, Micrometer Stand	300 mm to 500 mm	7.4µm



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53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer L.C: 0.01 mm	Using Gauge Block, Long Gauge Block, Length Bar, Micrometer	500 mm to 1000 mm	14.5µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C. 0.1 mm	Using Gauge Block by Comparison Method	0 to 100 mm	60µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Setting Ring Gauge	Using LMM, plain ring gauge by comparison method	100 mm to 300 mm	2.6µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Setting Ring Gauge	Using LMM, Plain ring gauge by comparison method	Up to 100 mm	1.7µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Mandrel (Diametrical Variation, Total Run Out)	Using Sine Center, Dial Snap Gauge, bench center, lever dial by comparison method	0 to 300 mm	3.0µm



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58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width / Depth / Flush Pin Gauge (Diameter / Width / Depth)	Using Electronic Probe & Gauge Block	100 mm to 300 mm	3.0µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width / Depth / Flush Pin Gauge (Diameter / Width / Depth)	Using Electronic Probe & Gauge Block	300 mm to 500 mm	5.0µm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width / Depth / Flush Pin Gauge (Diameter / Width / Depth)	Using Electronic Probe & Gauge Block by comparison method	Up to 100 mm	1.3µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain taper plug gauge (Angular)	Using LMM, Measuring pin, Gauge block by comparison method	Up to 90 °	24"
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Plug Gauge (Major, Minor, Diameter, Angle, Step)	Using LMM, Measuring pin, Gauge block by comparison method	Up to 100 mm	3.22µm



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63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Ring Gauge (Angle)	Using LMM, plain ring gauge by comparison method	Up to 90 °	24"
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Ring Gauge (Major, Minor, Diameter, Angle, Step)	Using LMM, Plain ring gauge by comparison method	Up to 100 mm	3µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial (Digital / Analogue) L.C. 0.01mm	Using UMM / LMM by comparison method	0 to 50 mm	4.2µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial (Digital/ Analogue) L.C: 0.0001mm	Using UMM and Laser Interferometer by comparison method	0 to 25 mm	0.08µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Video Measuring Machine by comparison method	Up to 30 mm	6µm



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68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Rivet Gauge (Parameter-Rivet Length) Drill Gauge (Parameter - Diameter) Wire Gauge, Wet film thickness gauge, Cross hatch cutter	Using Video Measuring Machine by comparison method	Up to 50 mm	5.1 µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sin Center/Sine Bar (Angle)	By using angle gauge block comparison method	Up to 90 °	8"
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Center/ Sine Bar (Center distance, Parallelism, Co-axiality)	Using Long Slip, Angular Slip, Electronic Height Gauge by comparison	Up to 300 mm	2.6µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Block, Long Gauge block by comparison method	100 mm to 600 mm	5.3 µm



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72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Block by comparison method	2 mm to 100 mm	3.14µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level (Type-Flat, Vee, Frame) L.C: 0.01 mm/m	Using Electronic Level Meter using Tilting Fixture by comparison method	0 to 0.120 mm/m	10µm/m
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Gauge (over pin and major diameter)	Using Floating Carriage micrometer and measuring pin by comparison method	Up to 100 mm	3.32 µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parameter-Straightness, Parallelism)	Using (Electronic Level width more than 40 mm), (Lever Dial, Surface Plate width less than 40 mm)	Up to 2000 mm	1.7 x (Sq. root L/125) µm Where L in mm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Parameter-Flatness)	Using Electronic Level Meter by comparison method	200 mm x200 mm to 1000 mm x1000 mm	(0.9 x Sq. root L+W/125) µm Where L& W in mm



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77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using VMM by comparison Method	Up to 50 mm	7.8µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Parameter-Effective Dia./Step)	Using Floating Carriage Micrometer, Thread measuring wire, setting master by comparison method	Up to 100 mm	4.0µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Parameter-Effective Dia./Step)	Using Length Measuring Machine/ check plug stand off method by comparison method	Up to 100 mm	4.0µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template / Form gauge (Parameter - Length, Diameter, Radius, Center distance)	Using video measuring machine comparison method	Up to 300 mm	2.8µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template / Form gauge/ Inspection fixture (Parameter - Length, Diameter, Radius, Center distance)	Using video measuring machine, Electronic height gauge by comparison method	0 ° to 90 °	18 "



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82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using Vernier caliper by comparison method	10 mm to 125 mm	25.98µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using video measuring machine by comparison method	Up to 10 mm	3.9µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring prism (Parameter - Width, radius, Parallelism, Flatness)	Using electronic probe, optical flat and VMM by comparison method	UP to 10 mm	1 µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using LMM by comparison method	Up to 6.35 mm	0.3µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Parameter- Pitch Length / Angle)	Using Profile Projector/ Video measuring machine	Up to 10 mm	7.3 µm & 1 min



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87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Micrometer (L.C: 0.001mm) Flank Angle	Using VMM by comparison method	Up to 60	30"
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Parameter-Effective & Major Diameter, pitch)	Using LMM, Thread measuring wire by comparison method	100 mm to 300 mm	3.5µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Parameter-Effective & Major Diameter, pitch)	Using LMM / FCDM, TMW, SM by comparison method	up to 100 mm	3.0µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Parameter-Effective & Minor Diameter)	Using LMM, Thread measuring wire (1 to 3 mm with thread check plug) by comparison method	0 to 100 mm	1.8µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Parameter-Effective & Minor Diameter)	Using LMM by comparison method	100 mm to 300 mm	2.8µm



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92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Internal Micrometer L.C: 0.001mm	Using Plain Ring Gauge at step of 2mm	0 to 100 mm	6.5µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge	Using setting round master by Comparison Method	0 to 200 mm	10µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Symmetricity, Parallelism, Squareness)	Using Square Master, Mandrel, Lever Dial electronic height gauge by comparison method	0 to 250 mm	Symmetricity: 7.5µm Parallelism: 7.2µm Squareness: 7.0µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge, Bridge cam, weld gauge (Parameter-Radius, Scale, angle, depth)	Using VMM, angle block, gauge block by comparison method	0 to 100 mm	7.8µm
96	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker/Step Checker/Check Master/Depth Checker	Using Digital Lever Dial, Long Gauge Block by comparison method	0 to 630 mm	3.2 µm



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97	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring equipment / Contracer / Contourecord (Parameter-Linear)	Using Gauge Block and Depth/Radius by comparison method	Up to 120 mm	3 µm
98	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring Machine (Parameter -Straightness)	Using Optical Flat by comparison method	Up to 120 mm	0.46 µm
99	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester L.C: 0.0001mm	Using Electronic Probe by comparison method	0 to 25 mm	0.8µm
100	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer L.C: 0.0001mm (Overall Accuracy, Micrometer Head, dial, probe Error, Flatness, parallelism of Faces, dia. variation)	Using Cylindrical Setting Master, Mandrel, Gauge Block, Optical Flat by comparison method	100 mm to 200 mm	2 µm



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101	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer L.C: 0.0001mm (Parameter -Overall Accuracy, Micrometer Head, dial, probe error, Flatness, dia. variation, parallelism of faces)	Using Cylindrical Setting Master, Mandrel, Gauge Block, Optical Flat by comparison method	0 to 100 mm	1.2 µm
102	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Calibrator L.C 0.00001 mm	Using K grade Gauge block by comparison method	0 to 100 mm	0.03µm
103	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Glass Scale / Glass Graticule / Microscope Glass eye piece L.C: 0.01 mm	Using UMM by comparison method	0 to 10 mm	2 µm
104	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Glass Scale/ Glass Graticule L.C: 0.01 mm/ 0.1 mm	Using laser interferometer and UMM by comparison method	0 to 400 mm	(0.21 + 1.17 L) µm (Where L in m)
105	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Glass Scale/ Glass Graticule L.C: 0.01 mm & 0.1 mm	Using UMM by comparison method	0 to 300 mm	2.2 µm



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106	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Long Gauge Block	Using Digital Lever Dial, Long Gauge Block by comparison method	Up to 600 mm	2.56 μm
107	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Long Slip Block	Using Lever Dial Gauge and Laser interferometer by Comparison method	0 to 1000 mm	(0.22 + 2.1 L) μm (Where L in m)
108	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine, UMM, Metroscope, Height Gauge (Vertical and Horizontal axis) L.C: 0.000001 mm)	Using Laser Interferometer by Comparison Method	0 to 1000 mm	(0.08+0.3 L) μm (Where L in m)
109	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope (Parameter - Magnification)	Using Glass Scale, Eye piece graticule, Digital Vernier caliper by comparison method	10 X to 100 X	1.8%
110	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video Measuring Machine (Parameter -Angular)	Using Angular Scale by comparison method	0 ° to 360 °	5"
111	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video Measuring Machine (Parameter -Linear) L.C: 0.0001 mm	Using laser Interferometer by comparison method	0 to 1000 mm	(0.18+ 2.5 L) μm L in m



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112	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video Measuring Machine/ Microscope (Parameter-linear) L.C: 0.0001 mm	Using Glass Scale by comparison method	0 to 300 mm	3.5 µm
113	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Carbide/ Ceramic)	Using Gauge Block Calibrator & K Grade Gauge Block by comparison	25 mm to 75 mm	0.14µm
114	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Carbide/ Ceramic)	Using Gauge Block Calibrator & K Grade Gauge Block by comparison	75 mm to 100 mm	0.18µm
115	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Carbide/ Ceramic)	Using Gauge Block Calibrator & K Grade Gauge Block comparison method	Up to 25 mm	0.12µm
116	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Steel)	Using Gauge Block Calibrator & K Grade Gauge Block	25 mm to 75 mm	0.14µm
117	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Steel)	Using Gauge Block Calibrator & K Grade Gauge Block	75 mm to 100 mm	0.20µm
118	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Steel)	Using Gauge Block Calibrator & K Grade Gauge Block	Up to 25 mm	0.12µm



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119	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Accessories (Flatness, height of base, width, Parallelism)	Using Electronic probe, Lever dial by comparison method	0 to 100 mm	1 μ m
120	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Master (Parameter Ra and Rz)	Using Surface Roughness Tester by comparison method	Up to 6 (Ra) and 24 (Rz) μ m	Ra: 6 %; Rz: 6 %
121	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Parameter Ra and Rz) L.C: 0.000001mm	Using Surface Roughness Master by comparison method	Up to Ra: 3.2 and Rz: 10.3 μ m	6%
122	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Measuring Machine L.C: 0.0001mm	Using Laser Interferometer by Comparison Method	0 to 5000 mm	(0.7+0.64 L) μ m (Where L in m)
123	MECHANICAL-DUROMETER	Durometer Shore A	Using Rubber Hardness Tester A/ Spring Force Calibration and indentation (with load cell and DCT) as per ASTM D 2240	0 to 100 Shore A	1.3Shore A



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124	MECHANICAL-DUROMETER	Durometer Shore D	Using Rubber Hardness Tester A/ Spring Force Calibration and indentation (with load cell and DCT) as per ASTM D 2240	0 to 100 Shore D	1.1Shore D
125	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic)	Using Hydraulic pump & Digital Pressure Indicator, DMM as per DKD R-6-1	0 bar to 10 bar	0.2bar
126	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic)	Using Hydraulic pump & Digital Pressure Indicator, DMM as per DKD R-6-1	0 bar to 350 bar	0.92bar
127	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic)	Using Hydraulic pump & Digital Pressure Indicator, DMM as per DKD R-6-1	0 bar to 700 bar	0.9bar



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128	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter, Pressure Transducers & Pressure Switch (Pneumatic)	Using Pneumatic pump & Digital Pressure Indicator, DMM as per DKD R-6-1	0 bar to 10 bar	0.2 bar
129	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type I-Class B & C & Type II-Class A & B	Using Torque wrench calibration system as per IS 16906	2 Nm to 20 Nm	2.49% rdg
130	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type I-Class B & C & Type II-Class A & B	Using Torque wrench calibration system as per IS 16906	20 Nm to 200 Nm	2.97% rdg
131	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type I-Class B & C & Type II-Class A & B	Using Torque wrench calibration system as per IS 16906	200 Nm to 2000 Nm	2.66% rdg



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Site Facility					
1	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / RPM (Non-Contact Type)	Using Digital Tachometer as per sanas TR 45 -01	100 rpm to 8000 rpm	2.1 rpm to 62 rpm
2	MECHANICAL-ACCELERATION AND SPEED	Centrifuge/ RPM (Contact Type)	Using Digital Tachometer as per sanas TR 45 -01	100 rpm to 8000 rpm	1.7 rpm to 18.9 rpm
3	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and variable RPM source as per sanas TR 45 -01	100 rpm to 8000 rpm	1.7 rpm to 18.9 rpm
4	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer and variable RPM source as per sanas TR 45 -01	100 rpm to 90000 rpm	2.1 rpm to 62 rpm
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center	Using Plain Mandrel, Lever Dial by comparison method	Up to 600 mm	2.5µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Gauge (Parameter - Linear/ Squareness) L.C: 0.0001mm	Using Long Gauge Block, Square Master by Comparison Method	0 to 1000 mm	3.0µm



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7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parameter - Straightness, Parallelism)	Using Electronic Level Meter	Up to 3500 mm	(1.7 x Sq. root L/125) μm (Where L & W in mm)
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Parameter - Flatness)	Using Electronic Level Meter by comparison method	200 mm x 200 mm to 5000 mm x5000 mm	(0.9 x Sq. root (L+W)/125) μm Where L & W in mm
9	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	CNC Machine/ Machine Tool / Actuator (Positioning Accuracy)	Using Laser interferometer by Comparison method	0 to 10000 mm	(2.9+L) where L is in m
10	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring equipment / Contracer / Contourecord (Parameter-Linear)	Using Gauge Block and Depth/Radius by comparison method	Up to 120 mm	3 μm
11	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring Machine (Parameter -Straightness)	Using Optical Flat by comparison method	Up to 120 mm	0.46 μm



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12	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer L.C: 0.0001mm (Overall Accuracy, Micrometer Head, dial, probe Error, Flatness, parallelism of Faces, dia. variation)	Using Cylindrical Setting Master, Mandrel, Gauge Block, Optical Flat by comparison method	100 mm to 200 mm	2 µm
13	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer L.C: 0.0001mm (Parameter -Overall Accuracy, Micrometer Head, dial, probe error, Flatness, dia. variation, parallelism of faces)	Using Cylindrical Setting Master, Mandrel, Gauge Block, Optical Flat by comparison method	0 to 100 mm	1.2 µm
14	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Calibrator L.C 0.00001 mm	Using K grade Gauge block by comparison method	0 to 100 mm	0.03µm
15	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine (Vertical & Horizontal Axis) L.C: 0.00001mm	Using Laser Interferometer By Comparison Method	0 to 10000 mm	(0.08+0.3 L) µm (Where L in m)



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16	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine, UMM, Metroscope, Height Gauge (Vertical and Horizontal axis) L.C: 0.000001 mm)	Using Laser Interferometer by Comparison Method	0 to 1000 mm	(0.08+0.3 L) μ m(Where L in m)
17	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope (Parameter - Magnification)	Using Glass Scale, Eye piece graticule, Digital Vernier caliper by comparison method	10 X to 100 X	1.8%
18	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video Measuring Machine (Parameter -Angular)	Using Angular Scale by comparison method	0 ° to 360 °	5"
19	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video Measuring Machine (Parameter -Linear) L.C: 0.0001 mm	Using laser Interferometer by comparison method	0 to 1000 mm	(0.18+ 2.5 L) μ m L in m
20	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video Measuring Machine/ Microscope (Parameter-linear) L.C: 0.0001 mm	Using Glass Scale by comparison method	0 to 300 mm	3.5 μ m
21	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Parameter Ra and Rz) L.C: 0.000001mm	Using Surface Roughness Master by comparison method	Up to Ra: 3.2 and Rz: 10.3 μ m	6%



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22	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Measuring Machine L.C: 0.0001mm	Using Laser Interferometer by Comparison Method	0 to 5000 mm	(0.7+0.64 L) μ m (Where L in m)
23	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic)	Using Hydraulic pump & Digital Pressure Indicator, DMM as per DKD R-6-1	0 bar to 10 bar	0.2bar
24	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic)	Using Hydraulic pump & Digital Pressure Indicator, DMM as per DKD R-6-1	0 bar to 350 bar	0.92bar
25	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic)	Using Hydraulic pump & Digital Pressure Indicator, DMM as per DKD R-6-1	0 bar to 700 bar	0.9bar



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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)(±)
26	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter, Pressure Transducers & Pressure Switch (Pneumatic)	Using Pneumatic pump & Digital Pressure Indicator, DMM as per DKD R-6-1	0 bar to 10 bar	0.2 bar

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