



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : KUDALE CALIBRATION LABORATORY PVT.LTD, VIJAYA-LAXMAN BUILDING, 133D/2, PARVATI DARSHAN SOC, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 25/05/2024 to 24/05/2026 **Last Amended on** 08/06/2024

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	Tachometer (contact)	Using Digital Tachometer, Tachometer Calibrator by comparison method	20 rpm to 3000 rpm	4.0 rpm
2	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non contact)	Using Digital Tachometer, Tachometer Calibrator by comparison method	100 rpm to 90000 rpm	8.0 rpm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor ,Combination Set L.C.: 5'	Using Angle gauges by Comparison Method	0° to 360°	5 ' of arc
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore gauge - Transmission Error L.C.: 0.001 mm & coarser	Using Electronic dial calibration tester by comparison Method	0 to 1 mm	2.5 µm
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial ,Digital ,Vernier) L.C.: 0.01mm	Using Caliper Checker, gauge block, Length bars by Comparison Method	> 600 mm to 1000 mm	15.3 µm



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6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial ,Digital ,Vernier) L.C.: 0.01mm	Using Caliper Checker ,gauge block set by Comparison Method	> 300 mm to 600 mm	11.0 µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial ,Digital ,Vernier) L.C.: 0.01mm ,0.02mm	Using Gauge block, Length bar by Comparison Method	> 1000 mm to 2000 mm	20 µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial, Digital ,Vernier) L.C.: 0.01 mm	Using Caliper Checker ,gauge block set by Comparison Method	0 to 300 mm	8.9 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C.: 0.0001 mm & coarser	Using Electronic Probe ,Thickness Foil by Comparison Method	10 µm to 2000 µm	1.6 µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand - Flatness	Using Slip gauges ,Height Measuring Machine Comparison method	0 to 300 mm	6.1 µm



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11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Square - Squareness	Using Cylindrical Square & squareness probe by comparison Method	0 mm to 600 mm	3.5 µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer , L.C.: 0.01 mm & coarser	Using Slip gauges, Length bar ,Surface plate , by Comparison Method	0 to 300 mm	5.0 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier L.C.: 0.01 mm & coarser	Using Length bar, Slip Gauge, Surface Plate, by Comparison Method	0 to 300 mm	6.8 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier L.C.: 0.01 mm & coarser	Using Length Bar ,Slip Gauge, Surface Plate by Comparison Method	300 mm to 600 mm	8.0 µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.: 0.001 mm & coarser	Using Slip Gauge by Comparison Method	0 to 50 mm	1.0 µm



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16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Vernier Caliper L.C.: 0.001mm	Using Caliper Checker ,Slip gauges, by Comparison Method	0 to 300 mm	6.4 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square - Perpendicularity	Using Height Measuring Machine , Square Cylinder by comparison Method	0 to 600 mm	7.3 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square - Straightness of Base	Using Height Measuring Machine, Comparison method	0 to 600 mm	7.0 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.001 mm	Using Micrometer Check Set, Master Setting Rod by Comparison Method	100 mm to 600 mm	5.4 µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.001mm	Using Mic Check Set ,Master Setting Rod by Comparison Method	0 to 100 mm	1.2 µm



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21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.01 mm	Using Mic Check Set , Master Setting Rod, Length bar by Comparison Method	600 mm to 1300 mm	10.6 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.01mm	Using Mic check set , slip gauges by Comparison Method	0 to 600 mm	5.3 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic Probe ,Slip gauges by Comparison Method	0.01 mm to 2 mm	1.0 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foil	Using Electronic Probe by Comparison Method	0.01 mm to 2 mm	1.0 µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Form gauge - linear measurement	Using Slip gauge,Feeler Gauge ,Video MeasuringMachine ,Length bar by Comparison Method	0.5 mm to 300 mm	12.0 µm



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26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Form gauge -Radius measurement	Using Video Measuring Machine by comparison Method	0.5 mm to 50 mm	8.0 µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Electronic Probe ,Slip gauge by Comparison Method	10 µm to 100 µm	1.22 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Master L.C.: 0.001mm	Using Length bars ,Slip gauges ,Surface Plate, Electronic Probe by Comparison method Method	0 to 300 mm	4.0 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper L.C.: 0.01mm	Using Length Measuring Machine by Comparison Method	0 to 50 mm	5.0 µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer L.C.: 0.001 mm	Using Length Measuring Machine by Comparison Method	50 mm to 500 mm	4.3 µm



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31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.: 0.001 mm	Using Electronic dial calibration tester by comparison Method	0 to 0.2 mm	2.0 µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.: 0.01 mm	Using Electronic dial calibration tester by comparison Method	0 to 2.0 mm	2.0 µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale L.C.: 0.5 mm	Using Tape And Scale Calibration by Comparison Method	0 to 1000 mm	30 Sqrt L µm Where L is in meter
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape L.C.: 1 mm	Using Tape and Scale Calibration Unit by Comparison Method	0 to 200 m	30 Sqrt L µm where L is in meter
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting rod	Using Electronic Probe ,Length bar ,Gauge Block Set by Comparison Method	> 100 mm to 600 mm	5.0 µm



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36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting rod	Using Electronic Probe ,Length bar, Gauge Block Set by Comparison Method	> 600 mm to 1300 mm	9.5 µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting rod	Using Electronic Probe ,Gauge block by Comparison Method	25 mm to 100 mm	1.7 µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pi Tape L.C.: 0.01 mm	Using Tape and Scale Calibration Unit by Comparison Method	0 to 4000 mm	30 Sqrt L µm Where L is in meter
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pin Gauge	Using Electronic Probe, Slip gauge by Comparison Method	0.05 mm to 20 mm	1.0 µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug gauge, Paddle gauge , OD Master	Using Electronic Probe, Slip gauge by Comparison Method	0.5 mm to 60 mm	1.2 µm



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41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug gauge,Paddle gauge ,OD Master	Using Electronic Probe ,Slip gauges by Comparision Method	60 mm to 200 mm	1.6 µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine , Master Setting Ring by Comparison Method	1 mm to 50 mm	1.2 µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using Length Measuring Machine ,Master Setting Ring by Comparision Method	50 mm to 200 mm	1.6 µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C.: 0.5 µm	Using Slip Gauge ,by Comparision Method	0 to 0.05 mm	0.8 µm
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge - Digital Dial L.C.: 0.01 mm,0.001mm	Using Slip Gauge ,Length Measuring Machine by Comparison Method	25 mm to 150 mm	1.2 µm



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46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge L.C.: 0.001mm ,0.01mm	Using Electronic Dial Calibration Tester by Comparison Method	0 to 25 mm	2.0 µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Comparison Method	0.4 mm to 50 mm	7.0 µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauges And Length bar by Comparison Method	> 300 mm to 500 mm	8 µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauges And Length bar by Comparison Method	> 500 mm to 1000 mm	12 µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip gauges, by Comparison Method	0.5 mm to 100 mm	1.0 µm



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51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauges And Length bar by Comparison Method	100 mm to 300 mm	1.6 µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Flatness	Using Electronic Level by Comparison Method	0 to 1000 mm	1Sqrt L /125 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Parallelism	Using Electronic Level by Comparison Method	0 to 1000 mm	1Sqrt L/125 µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level Comparison Method	Up to 630 mm x 630 mm	0.8 Sqrt L+W/125 µm Where L & W in mm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level by Comparison Method	Up to 400 mm x 400 mm	0.8 Sqrt L+W/125 µm Where L & W in mm



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56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape and Scale Cal Unit	Using Length bar by Comparison Method	0 to 1000 mm	15.0 µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug gauge - Effective pitch diameter, Major diameter	Using Floating carriage Micrometer ,Thread Measuring Wires , Setting Master Rods by Comparison Method	3 mm to 100 mm	3.5 µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Video Measuring Machine by comparison Method	0.025 mm to 3.0 mm	7.5 µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Video Measuring Machine by Comparison Method	3 mm to 100 mm	50 µm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wires	Using Electronic probe , Gauge block ,LMM by Comparison Method	0.22 mm to 6.3 mm	0.5 µm



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61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Flank Angle	Using Profile Projector by Comparison Method	55 ° to 60 °	2.5 ' of arc
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Pitch	Using Video Measuring Machine by Comparison Method	0.4 mm to 7.0 mm	5.0 µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Effective pitch diameter & Major diameter	Using Length Measuring Machine ,Thread Measuring Wires by comparison Method	3 mm to 200 mm	2.5 µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge - Effective pitch diameter & Minor diameter	Using Length Measuring Machine, Master Setting Rings by Comparison Method	3 mm to 200 mm	1.5 µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer, Bore Comparator	Using Master Setting Rings by Comparison Method	2 mm to 200 mm	3.5 µm



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66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Symmetry	Using Height Measuring Machine,surface plate ,Test Mandrel Comparison method	75mmx150mmx150 mm	8.3 µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Blocks - Parallelism	Using Height Measuring Machine by Comparison method	75 mmx100mmx150m m	11.8 µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Blocks - Squareness	Using Height Measuring Machine,surface plate ,Test Mandrel Comparison method	75mmx150mmx150 mm	7.8 µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge L.C.: 0.01 mm	Using Length bar ,Gauge block ,Surface Plate by comparison Method	0 to 600 mm	8.3 µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Height Gauge L.C.: 0.01 mm	Using Length bar, Gauge block ,Surface Plate by Comparison Method	600 mm to 1000 mm	8.5 µm



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71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Using Electronic Probe by comparison method	0.1 mm to 60 mm	1.2 µm
72	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Slip Gauge ,Length Bar by Comparison Method	0 to 1000 mm	6.5 µm
73	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Slip Gauge, Length Bar by Comparison Method	0 to 600 mm	4.5 µm
74	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester L.C. :0.001mm	Using Electronic Probe ,Slip gauges by Comparison Method	0 to 25 mm	1.0 µm
75	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester L.C.: 0.0002mm	Using Electronic Probe ,Slip gauges by Comparison Method	0 to 25 mm	1.0 µm
76	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Dial Calibration Tester L.C.: 0.00001mm	Using Electronic Probe ,Slip gauges by Comparison Method	0 to 50 mm	1.0 µm
77	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe L.C.: 0.00001 mm	Using Slip gauges of 0 grade by Comparison Method	0 to 50 mm	1.0 µm



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Laboratory Name : KUDALE CALIBRATION LABORATORY PVT.LTD, VIJAYA-LAXMAN BUILDING, 133D/2,
PARVATI DARSHAN SOC, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 25/05/2024 to 24/05/2026 **Last Amended on** 08/06/2024

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)(±)
78	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe L.C.: 0.1µm	using Gauge block by Comparison Method	0 to 25 mm	0.5 µm
79	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Accessories	Using Electronic probe, Gauge block, Surface plate ,Optical flat by Comparison Method	Up to 250 mm	3.0 µm
80	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set Grade : K,00,0,1,& 2	Using Gauge Block Calibrator & 'K,O' Grade Reference Gauge Block Set by comparison Method	10 mm to 50 mm	0.12 µm
81	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set Grades : K,00,0,1,& 2	Using Gauge Block Calibration Tester & 'K,O' Grade Reference Gauge Block Set by comparison Method	0 to 10 mm	0.1 µm
82	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set Grades : K,00,0,1,& 2	Using Gauge Block calibrator & 'K ,O' Grade Reference Gauge Block Set by comparison Method	50 mm to 100 mm	0.2 µm
83	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Measuring Machine (2D Height gauge) -Linear L.C.: 0.0001mm	Using Length bars by Comparison Method	0 to 600 mm	4.6 µm



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84	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Measuring Machine - Squareness L.C.: 0.0001 mm	Using Square cylinder by Comparison Method	0 to 600 mm	8.8 µm
85	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length bar / Long Slip Gauge	Using Length measuring machine ,Electronic probe ,Gauge block by Comparison Method	Up to 500 mm	2.0 µm
86	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Plunger Dial Gauge L.C.: 0.0001 mm	Using Slip gauges by Comparison Method	0 to 150 mm	1.1 µm
87	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector , Video Measuring Machine - Angle	Using Angle gauges by Comparison Method	0 ° to 360 °	30 " of Arc
88	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector , Video Measuring Machine-Linear L.C.: 0.001 mm	Using Glass scale by Comparison Method	200 x 200 mm	3.5 µm
89	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Digital Vernier, Comparison Method	10 x to 100 x	0.1 %
90	MECHANICAL-DUROMETER	Rubber Hardness Tester (Durometer) Shore A,D	Using Electronic Rubber Hardness Tester calibrator as per ASTM D 2240	10 Shore A,D to 100 Shore A,D	1.19 %



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91	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Force Gauge (Pull Mode)	Using Dead Weights as per VDI/VDE 2624,Pan (Pull mode only)	2 N to 2000 N	0.12 %
92	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge	Using Pressure gauge comparator, Digital pressure gauge by Comparison Method DKD R6-1	0 to 70 bar	0.2 bar
93	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge	Using Digital Pressure Gauge, Pressure Gauge Calibrator by Comparison Method DKD R6-1	0 to 700 bar	0.4 bar
94	MECHANICAL-TORQUE GENERATING DEVICES	Digital Torque Wrench (Type I Class B & C)	Using Dead Weights,Beam by Comparison Method	1 to 500 Nm	0.61 %
95	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench - Type 1 and 2, Class A,B,C,D &E	Using Torque Sensor of class 1and 2 With Indicator as per ISO 6789:2017	1Nm to 300Nm	1.2 %
96	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type II Class A,B,C,D &G	Using Torque Sensor of class 1 with Indicator as per ISO : 6789:2017	300 Nm to 2000 Nm	0.8%



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97	MECHANICAL-TORQUE MEASURING DEVICES	Torque Sensor / Torque Tester with indicator	Using Dead Weights and Beam as per BS 7882: 2017	0.4 Nm to 50 Nm	0.46 %
98	MECHANICAL-TORQUE MEASURING DEVICES	Torque Sensor / Torque Tester with indicator	Using Dead Weights and Beam as per BS 7882: 2017	300 Nm to 2000 Nm	0.3 %
99	MECHANICAL-TORQUE MEASURING DEVICES	Torque Sensor / Torque Tester with indicator	Using Dead Weights and Beam as per BS 7882: 2017	50 Nm to 300 Nm	0.3 %



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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Dial ,Digital ,Vernier) L.C.: 0.01mm ,0.02mm	Using Gauge block, Length bar by Comparison Method	> 1000 mm to 2000 mm	20 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge - Digital Dial L.C.: 0.01 mm,0.001mm	Using Slip Gauge ,Length Measuring Machine by Comparison Method	25 mm to 150 mm	1.2 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Flatness	Using Electronic Level by Comparison Method	0 to 1000 mm	1Sqrt L /125 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Flatness	Using Electronic Level by Comparison Method	0 to 4000 mm	1Sqrt L/125 µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Parallelism	Using Electronic Level by Comparison Method	0 to 1000 mm	1Sqrt L/125 µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge - Parallelism	Using Electronic Level by Comparison Method	1000 mm to 4000 mm	1 Sqrt L /125 µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level Comparison Method	Up to 630 mm x 630 mm	0.8 Sqrt L+W/125 µm Where L & W in mm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level by Comparison Method	Up to 400 mm x 400 mm	0.8 Sqrt L+W/125 µm Where L & W in mm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Flatness	Using Electronic Level by Comparison Method	Up to 400 mm x 400 mm to 3000 mm x 3000 mm	0.8 Sqrt L+W/125 µm Where L & W in mm



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape and Scale Cal Unit	Using Length bar by Comparison Method	0 to 1000 mm	15.0 µm
11	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Measuring Machine (2D Height gauge) -Linear L.C.: 0.0001mm	Using Length bars by Comparison Method	0 to 600 mm	4.6 µm
12	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Measuring Machine - Squareness L.C.: 0.0001 mm	Using Square cylinder by Comparison Method	0 to 600 mm	8.8 µm
13	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector , Video Measuring Machine - Angle	Using Angle gauges by Comparison Method	0 ° to 360 °	30 " of Arc
14	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector , Video Measuring Machine-Linear L.C.: 0.001 mm	Using Glass scale by Comparison Method	200 x 200 mm	3.5 µm
15	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Digital Vernier, Comparison Method	10 x to 100 x	0.1 %



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16	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge	Using Pressure gauge comparator, Digital pressure gauge by Comparison Method DKD R6-1	0 to 70 bar	0.2 bar
17	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge	Using Digital Pressure Gauge, Pressure Gauge Calibrator by Comparison Method DKD R6-1	0 to 700 bar	0.4 bar
18	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Tensile Testing Machine	Using force proving instrument (Load Cell) as per 1828: 2022	20 N to 20000 N	0.37 %

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