



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : R.P. CALIBRATION LABORATORY, NO. 26, FIRST FLOOR, KUPPU SAMY STREET,
BALAJI NAGAR,, CHENNAI, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 02/12/2022 to 01/12/2024 **Last Amended on** 30/04/2023

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.)	Angle Plate (Flatness, Squareness, Parallelism)	Using Co-ordinate Measuring Machine, Direct method	Up to 250x250x250 mm	7.4µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor LC: 1'	Using Video Measuring Machine / Angle gauge blocks, Direct Method	0° to 360°	3 min 21 s
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Combination Set LC: 0.01°	Using Video Measuring Machine / Angle Gauge Blocks, Direct Method	0° to 180°	4min
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Dial gauge (Transmission Error) LC: 0.001mm	Using Length Measuring Machine by Direct Method	Up to 1 mm	2.7µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers LC: 0.01mm (vernier/Digital/Dial)	Using Caliper Checker by Comparison Method	0 to 1000 mm	16.0 μ m
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness gauge	Using Thickness Foils by Comparison Method	Up to 3 mm	9 μ m
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of base)	Using Electronic Comparator by Direct Method	Up to 200 x 200 mm	4.0 μ m
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer LC: 0.001mm	Using Depth Microchecker by Comparison Method	0 to 300 mm	8.0 μ m
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier LC: 0.01mm	Using Depth Microchecker & Long gauge blocks by Comparison Method	0 to 600 mm	13.7 μ m



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge	Using Gauge Block Set by Comparison Method	0 to 300 mm	4.8µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital / Dial Thickness gauge LC: 0.001mm	Using Slip Gauge Set by Comparison Method	0 to 25 mm	1.6µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height gauge LC: 0.0001mm	Using Long Slip Gauge set by Comparison Method	0 to 1000 mm	10.5µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height gauge LC: 0.0001mm	Using Long Slip Gauge set by Comparison Method	0 to 600 mm	10.1µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe LC: 0.001mm	Using Length Measuring Method by Direct Method / Slip Gauge Set by Comparison Method	0 to 25 mm	1.4µm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Parallels(Parallelism)	Using Co-ordinate Measuring Machine by Direct Method	Upto to 300 x 300 mm	9.9 μ m
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square / Granite Square 300 x 300 mm(Perpendicularity , Parallelism, Flatness, Straightness)	Using Co-ordinate Measuring Machine by Direct Method	Up to 300 x 300 mm	9.5 μ m
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer LC: 0.0001mm	Using Micrometer Check Set by Comparison Method	0 to 25 mm	1.2 μ m
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer LC: 0.001mm	Using Micrometer Check Set, Long Gauge Block Set by Comparison Method	0 to 300 mm	4.0 μ m
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer LC: 0.01mm	Using Micrometer Check Set, Long Gauge Block Set by Comparison Method	0 to 1000 mm	12.6 μ m



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler gauge	Using Digital Micrometer by Comparison Method	Up to 1 mm	2.4µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin gauge / Depth gauge	Using Gauge blocks & Electronic Comparator by Comparison Method	0.8 mm to 100 mm	3.1µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin gauge / Depth gauge	Using Gauge blocks & Electronic Comparator by Comparison Method	100 mm to 300 mm	6.2µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial Gauge (Internal) / External Dial Caliper gauge LC: 0.01mm	Using Slip Gauge Accessory, Slip Gauge Set by Comparison Method	5 mm to 100 mm	6µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height gauge LC: 0.01mm (Dial/Digital/Analog)	Using Caliper Checker / Slip Gauge by Comparison Method	0 to 1000 mm	14.0µm



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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hi Lo gauge	Using Video Measuring Machine by Direct Method	0.3 mm to 1.9 mm	8.8µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial gauge Concentricity gauge	Using Co-ordinate Measuring Machine by Direct Method	5 mm to 40 mm	9.4µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial gauge Limit gauge (Angle)	Using Co-ordinate Measuring Machine by Direct Method	1 ° to 360 °	2min,54s
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial gauge Limit gauge (Diameter/Radius)	Using Co-ordinate Measuring Machine by Direct Method	3 mm to 400 mm	11µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial gauge Limit gauge (Length)	Using Co-ordinate Measuring Machine by Direct Method	10 mm to 400 mm	11µm



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30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial gauge PCD gauge	Using Co-ordinate Measuring Machine by Direct Method	20 mm to 300 mm	9.5µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial gauge Perpendicularity gauge	Using Co-ordinate Measuring Machine by Direct Method	40 mm to 100 mm	9.4µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Gauge Pin & Hole Diameter	Using Co-ordinate Measuring Machine by Direct Method	3 mm to 40 mm	7.3µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial gauge Position gauge	Using Co-ordinate Measuring Machine by Direct Method	50 mm to 300 mm	9.4µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Gauge Receiver gauge	Using Co-ordinate Measuring Machine by Direct Method	50 mm to 300 mm	9.4µm



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35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer LC: 0.01mm Head	Using Gauge Block Set, Electronic Probe by Comparison Method	50 mm to 63 mm	5.8µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer LC: 0.01mm Overall Length	Using Gauge Block Set, Electronic Probe by Comparison Method	50 mm to 1000 mm	12.0µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial gauge LC: 0.001mm	Using Length Measuring Machine by Direct Method	0 to 1 mm	1.6µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial gauge LC: 0.002mm	Using Length Measuring Machine by Direct Method	0 mm to 0.2 mm	1.7µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins	Using Length Measuring Machine by Direct Method	0.5 mm to 40 mm	1.3µm



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40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale LC: 0.1 mm	Using Video Measuring Machine by Direct Method	Up to 300 mm	$350\sqrt{L/100}\mu\text{m}$, where L is in mm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head LC: 0.001 mm	Using Slip Gauge by Comparison Method	0 to 50 mm	3 μm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Gauge Block Set / Electronic Comparator by Comparison Method	25 mm to 975 mm	7.0 μm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper LC: 0.1mm	Using Slip Gauge Set by Comparison Method	0 to 50 mm	58.0 μm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer Angle	Using Video Measuring Machine by Direct Method	55 ° to 60 °	3min



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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer(Micrometer screw error) LC: 0.001mm	Using Slip gauge blocks by Comparison Method	6.5 mm to 50 mm	1.5µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug gauge (Diameter)	Using length Measuring Method by Direct Method	1 mm to 200 mm	4µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring gauge(Diameter)	Using Length Measuring Machine by Comparison Method	3 mm to 200 mm	3.5µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial gauge LC: 0.01mm	Using Length Measuring Machine by Direct Method	0 to 50 mm	5.9µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial gauge / Digital Dial gauge LC: 0.001mm	Using Length Measuring Machine by Direct Method	0 to 25 mm	1.6µm



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50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Portable Surface Roughness Tester. Ra value.	Using Surface Roughness Specimen by Comparison Method.	Up to 3 Ra	8.6%
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius gauge	Using Video Measuring Machine by Direct Method	0.4 mm to 25 mm	8.9µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Rockwell Diamond Indentor(Angle)	Using Video Measuring Machine by Direct Method	45°, 55°, 60°& 90°	3min
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge / Gap gauge / Length gauge	Using Slip Gauge Set by Comparison Method	100 mm to 200 mm	6µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge / Gap gauge / Length gauge	Using Slip Gauge Set by Comparison Method	3 mm to 100 mm	2.0µm



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55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug gauge (Major & Minor Diameter)	Using Co-ordinate Measuring Machine by Direct Method	2 mm to 100 mm	8.5µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug gauge (Half Taper Angle)	Using Co-ordinate Measuring Machine by Direct Method	1 ° to 30 °	2min 54s
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Ring gauge (Major & Minor Diameter)	Using Co-ordinate Measuring Machine by Direct Method	2 mm to 100 mm	8.5µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Ring gauge (Half Taper Angle)	Using Co-ordinate Measuring Machine by Direct Method	1 ° to 30 °	2min 54s
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Video Measuring Machine by Direct Method	1 mm to 45 mm	8.9µm



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60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug gauge (Effective diameter)(Pitch Distance & Angle)	Using Length Measuring Machine Comparison Method	3 mm to 100 mm	4.5µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring gauge (Effective Diameter)	Using Length Measuring Machine by Comparison Method	3 mm to 100 mm	2.8µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Video Measuring Method by Direct Method	0.02 mm to 50 mm	8.9µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using Length Measuring Machine by Direct Method	0.24 micron to 2500 micron	0.8µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire Set	Using Length Measuring Machine by Direct Method	0.17 mm to 6.35 mm	1.5µm



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65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch gauge	Using Video Measuring Machine by Direct Method	0.35 mm to 7 mm	8.9µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauge (Major and Effective diameter)	Using Length Measuring Machine ,Thread Measuring Wire by Direct Method	1 mm to 200 mm	3.7µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring gauge (Effective diameter)	Using Length Measuring Machine, Master Ring gauge by Comparison Method	2 mm to 100 mm	4µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer / Holtest Micrometer LC: 0.001mm	Using Setting Ring Gauge Set by Comparison Method	4 mm to 100 mm	4.4µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness gauge. L.C 0.1mm	Using Slip Gauge set by Comparison Method	1 mm to 100 mm	57.8µm



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70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Anvil Micrometer LC: 0.001mm	Using Cylindrical Measuring Pins by Comparison Method	2.3 mm to 40 mm	2.5 μ m
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block Symmetricity	Using Test Mandrel & Dial Indicator by Direct Method	Up to 150 x 75 x 100 mm	3.6 μ m
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block Parallelism	Using Test Mandrel & Dial Indicator by Direct Method	Up to 150 x 75 x 100 mm	3.6 μ m
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block squareness	Using Co-ordinate Measuring Machine by Direct Method	Up to 150 x 75 x 100 mm	9.0 μ m
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet gauge (Radius)	Using Video Measuring Machine by Direct Method	3.2 mm to 25 mm	8.9 μ m



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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)
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld gauge Angle	Using Video Measuring Machine by Direct Method	0 to 60°	2arc min
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld gauge LC: 0.1 mm	Using Video Measuring Machine by Direct Method	0 to 25 mm	8.9 μ m
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness gauge	Using Video Measuring Machine by Direct Method	0 to 3000 μ m	8.5 μ m
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width gauge	Using Digital Micrometer by Direct Method	1.5 mm to 15 mm	2.0 μ m
79	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Angular Graticule	Using Video Measuring Machine by Direct Method	0 to 360°	2arc min



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80	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker / Check Master / Depth Micro Checker / Height Master	Using Gauge Blocks grade 0 & Comparator arrangement with dial test indicator (LC 0.002 mm) by Comparison Method	0 to 1000 mm	6.5µm
81	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker / Check Master / Depth Micro Checker / Height Master	Using Gauge Blocks grade 0 & Comparator arrangement with dial test indicator (LC 0.002 mm) by Comparison Method	0 to 600 mm	4.7µm
82	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Specimen	Using Surface Roughness Master & Tester by Comparison Method	Up to Ra 6.35 µm	7.3%
83	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic (Pressure gauge / Pressure Indicator / Pressure Calibrators / Pressure Switches / Pressure Transmitters / Pressure Transducer / Pressure Recorder)	Using Digital Pressure Gauge & Pressure Calibrator (DKD-R-6-1) / Multimeter	0 bar to 25 bar	0.05 bar



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84	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic (Pressure gauge / Pressure Indicator / Pressure Calibrators / Pressure Switches / Pressure Transmitters / Pressure Transducer / Pressure Recorder)	Using Digital Pressure Gauge & Pressure Calibrator (DKD-R-6-1) / Digital Multimeter	0 bar to 250 bar	0.26 bar
85	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic (Pressure gauge / Pressure Indicator / Pressure Calibrators / Pressure Switches / Pressure Transmitters / Pressure Transducer / Pressure Recorder)	Using Digital Pressure Gauge & Pressure Calibrator (DKD-R-6-1) / Digital Multimeter	0 bar to 400 bar	0.41 bar
86	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic (Pressure gauge / Pressure Indicator / Pressure Calibrators / Pressure Switches / Pressure Transmitters / Pressure Transducer / Pressure Recorder)	Using Digital Pressure Gauge & Pressure Calibrator (DKD-R-6-1) / Digital Multimeter	0 bar to 700 bar	0.77 bar



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87	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic (Pressure gauge / Pressure Indicator / Pressure Calibrators / Pressure Switches / Pressure Transmitters / Pressure Transducer / Pressure Recorder)	Using Digital Pressure Gauge & Pressure Calibrator (DKD-R-6-1) / Digital Multimeter	0 bar to 2.5 bar	0.014 bar
88	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Pneumatic (Pressure gauge / Pressure Indicator / Pressure Calibrators / Pressure Switches / Pressure Transmitters / Pressure Transducer / Pressure Recorder)	Using Digital Pressure Gauge & Pressure Calibrator (DKD-R-6-1) / Digital Multimeter	-0.9 bar to 0 bar	0.0014 bar
89	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches (Type I - Class A,B,C,D,E & Type II - Class A,B,C,D,E,F,G)	Using Torque Transducers (IS16906-2018)	10 Nm to 50 Nm	2.5% rdg
90	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches (Type I - Class A,B,C,D,E & Type II - Class A,B,C,D,E,F,G)	Using Torque Transducers (IS 16906-2018)	200 Nm to 1000 Nm	2.5% rdg
91	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches (Type I - Class A,B,C,D,E & Type II - Class A,B,C,D,E,F,G)	Using Torque Transducers (IS16906-2018)	50 Nm to 200 Nm	1.8% rdg



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92	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrenches & Torque Hand Tools (Type I Class A,B,C,D,E) & Type II Class A,B,C,D,E,F,G)	Using Torque Transducers (IS16906-2018)	1 Nm to 10 Nm	2.5% rdg



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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height gauge LC: 0.0001mm	Using Long Slip Gauge set by Comparison Method	0 to 1000 mm	10.5µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height gauge LC: 0.0001mm	Using Long Slip Gauge set by Comparison Method	0 to 600 mm	10.1µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height gauge LC: 0.01mm (Dial/Digital/Analog)	Using Caliper Checker / Slip Gauge by Comparison Method	0 to 1000 mm	14.0µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Spirit Level by Comparison Method	Up to 2000X2000 mm	$1.5 \times \sqrt{(L+W)/100}$ (L&W in mm)
5	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Co-ordinate Measuring Machine LC: 0.0001mm	Using Long Slip Gauge Set by Comparison Method	Up to 1000 x 1000 x 1000 mm	$3.2 + (4.8 \times L/1000) \mu m$ where L in mm



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6	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine	Using Slip Gauge Set by Comparison Method	0 to 100 mm	1.2 μ m
7	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Measuring Microscope / Video Measurig Machine Linear LC: 0.0001mm	Using Glass Scale by Comparison Method	0 to 200 mm	6.1 μ m
8	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Measuring Microscope / Video Measurig Machine Linear LC: 0.0001mm	Using Glass Scale by Comparison Method	0 to 300 mm	8.0 μ m
9	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Measuring Microscope / Video Measurig Machine Magnifiction	Using Glass Scale, Slip Gauge Block by Comparison Method	10X to 100X	1.50%
10	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Measuring Microscope / Video Measurig Machine LC: 1 sec Angle	Using Angle Graticule by Comparison Method	0 to 360°	1min 30s



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11	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic (Pressure gauge / Pressure Indicator / Pressure Calibrators / Pressure Switches / Pressure Transmitters / Pressure Transducer / Pressure Recorder)	Using Digital Pressure Gauge & Pressure Calibrator (DKD-R-6-1) / Multimeter	0 bar to 25 bar	0.05 bar
12	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic (Pressure gauge / Pressure Indicator / Pressure Calibrators / Pressure Switches / Pressure Transmitters / Pressure Transducer / Pressure Recorder)	Using Digital Pressure Gauge & Pressure Calibrator (DKD-R-6-1) / Digital Multimeter	0 bar to 250 bar	0.26 bar
13	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic (Pressure gauge / Pressure Indicator / Pressure Calibrators / Pressure Switches / Pressure Transmitters / Pressure Transducer / Pressure Recorder)	Using Digital Pressure Gauge & Pressure Calibrator (DKD-R-6-1) / Digital Multimeter	0 bar to 400 bar	0.41 bar



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14	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic (Pressure gauge / Pressure Indicator / Pressure Calibrators / Pressure Switches / Pressure Transmitters / Pressure Transducer / Pressure Recorder)	Using Digital Pressure Gauge & Pressure Calibrator (DKD-R-6-1) / Digital Multimeter	0 bar to 700 bar	0.77 bar
15	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic (Pressure gauge / Pressure Indicator / Pressure Calibrators / Pressure Switches / Pressure Transmitters / Pressure Transducer / Pressure Recorder)	Using Digital Pressure Gauge & Pressure Calibrator (DKD-R-6-1) / Digital Multimeter	0 bar to 2.5 bar	0.014 bar
16	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Pneumatic (Pressure gauge / Pressure Indicator / Pressure Calibrators / Pressure Switches / Pressure Transmitters / Pressure Transducer / Pressure Recorder)	Using Digital Pressure Gauge & Pressure Calibrator (DKD-R-6-1) / Digital Multimeter	-0.9 bar to 0 bar	0.0014 bar

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