National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	KOSAKA CALIBRATION LAB, NO. 12, BALAJI NAGAR, AMBATTUR, CHENNAI, TAMIL NADU, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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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)(±)
Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit (Linearity)	Using Setting Ring Gauges, Air Plug by Comparison Method	Up to 0.05 mm	0.0042mm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Combination set LC: 1 arc Min	Using Video Measuring Machine by Comparison method	0 to 360 °	3.04arc min
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Blade Micrometer/ Ball Micrometer/ Disc Micrometer/ Point Micrometer LC: 0.001mm	Using Gauge Blocks Grade K By Comparison Method	0 to 100 mm	0.0015mm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Blade Micrometer/ Ball Micrometer/ Disc Micrometer/ Point Micrometer LC: 0.001mm	Using Gauge Blocks By Comparison Method	100 mm to 300 mm	0.006mm

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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauges (Stem / split Type) Transmission Only L.C: 0.001mm	Using Electronic probe by comparison method	0 to 3 mm	0.0009mm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/ Digital) LC: 0.01mm	Using Caliper Checker by Comparison Method	0 to 600 mm	0.0094mm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/ Digital) LC: 0.01mm	Using Caliper Checker by Comparison Method	600 mm to 1000 mm	0.026mm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge LC: 0.1µm	Using Coating Thickness Foil by Comparison Method	0.01 mm to 2 mm	0.0024mm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator stand Flatness	Using Height Gauge With Dial Gauge and Surface plate By Comparison Method	Up to 300mmX300 mm	0.0054mm

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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pins	Using ULM By Comparison Method	0.1 mm to 20 mm	0.0013mm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master	Using ULM by Comparison Method	3 mm to 300 mm	0.0034mm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (Vernier/Dial/Digital) LC: 0.01mm	Using Gauge Block by Comparison Method	0 to 300 mm	0.013mm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (Vernier/Dial/Digital) LC: 0.01mm	Using Gauge Block by Comparison Method	300 mm to 600 mm	0.013mm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (Analog/ Digital) L.C: 0.001mm	Using Gauge Blocks/ Long Gauge Blocks By Comparison Method	0 to 300 mm	0.0062mm

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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge / Snap Micrometer	Using Gauge Block, Optical by comparison Method	25 mm to 100 mm	0.0014mm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge LC: 0.001 mm	Using Gauge block set by comparison method	0 to 25 mm	0.001mm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Square Parallelism Squareness	Using CMM by comparison method	Up to 300 mm	0.0113mm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog/ Digital) L.C: 0.001mm	Using Gauge Blocks grade K / Long Gauge Blocks Grade 0 By Comparison Method	300 mm to 500 mm	0.0036mm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog/ Digital) L.C: 0.0001mm	Using Gauge Blocks grade K By Comparison Method	0 to 25 mm	0.001mm

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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog/ Digital) L.C: 0.001mm	Using Gauge Blocks grade K / Long Gauge Blocks Grade 0 By Comparison Method	0 to 100 mm	0.0016mm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog/ Digital) L.C: 0.001mm	Using Gauge Blocks grade K / Long Gauge Blocks Grade 0 By Comparison Method	100 mm to 300 mm	0.0062mm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using ULM by comparison Method	0.03 mm to 2 mm	0.0003mm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Fillet Gauge Angle	Using Video Measuring Machine by comparison method	0 to 60 °	3.02arc min
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Fillet Gauge Linear	Using VMS by comparison method	Up to 200 mm	0.12mm

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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge	Using 2D Height gauge by Comparison method	0 to 300 mm	0.005mm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge	Using 2D Height gauge by Comparison method	300 mm to 500 mm	0.005mm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Grid Glass Master	Using VMS by Comparison Method	0 to 300 mm	0.006mm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial Gauge L.C: 0.005 mm	Using gauge Blocks by comparison Method	5 mm to 55 mm	0.0065mm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dia/ Digital) L.C: 0.01mm	Using Caliper Checker by Comparison Method	0 to 600 mm	0.010mm

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30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dia/ Digital) L.C: 0.01mm	Using Caliper Checker by Comparison Method	600 mm to 1000 mm	0.021mm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial (Analog/ Digital) L.C: 0.001mm	Using Electronic probe by comparison method	0 to 2 mm	0.0052mm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit gauges (Height/Depth/Length/Gap/Knife Edge/Distance/Bridge/Position/CD/PCD/Receiver Gauges/Inspection jig Fixture/Geometrical Dimension)	Using CMM by comparison method	Up to 300 mm	0.0105mm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Long Gauge Block/ Length Bar	Using ULM By Comparison Method	100 mm to 500 mm	0.0031mm

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34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT Probe with DRO LC: 0.0001 mm	Using K Grade Slip gauge by Comparison Method	0 to 25 mm	0.0021mm
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Ulm By Comparison Method	100 mm to 500 mm	0.003mm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Ulm By Comparison Method	25 mm to 100 mm	0.0003mm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Micrometer LC: 0.001 mm	Using Gauge blocks by comparison method	0 to 100 mm	0.001mm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/Width gauge	Using ULM By Comparison Method	1 mm to 100 mm	0.0014mm

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39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge/Width gauge	Using ULM By Comparison Method	100 mm to 400 mm	0.002mm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Setting Ring Gauge	Using Ulm & Master Ring Gauge By Comparison Method	100 mm to 300 mm	0.0033mm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Setting Ring Gauge	Using Ulm & Master Ring Gauge By Comparison Method	3 mm to 100 mm	0.0012mm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial (Analog/ Digital) L.C: 0.001mm	Using ULM by comparison method	0 to 10 mm	0.0008mm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial (Analog/ Digital) L.C: 0.001mm	By Using ULM by Comparison method	0 to 50 mm	0.0025mm

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44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C: 0.01mm)	Using ULM by Comparison Method	50 mm to 100 mm	0.0063mm
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using VMS by Comparison Method	0.6 mm to 25 mm	0.0016mm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Roughness Specimen Depth	Using Surface Roughness Tester by comparison method	Up to 600 µm	6.22%
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Roundness Master	Using Roundness machine and Magnification Master by comparison method	Up to 1800 µm	1.0µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slip Gauge Accessories Flatness only	Using Optical Flat by comparison method	Up to 300 mm	0.003mm

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49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (Fixed / Adjustable)	Using ULM by comparison Method	100 mm to 300 mm	0.003mm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (Fixed / Adjustable)	Using ULM by comparison Method	3 mm to 100 mm	0.0006mm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (Fixed / Adjustable)	Using 2D by comparison Method	300 mm to 500 mm	0.0082mm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spherical Ball Master, Ruby Ball, Master Steel Ball(Diameter, Roundness, circularity)	Using Roundness machine by Comparison Method	Up to 50 mm	0.00011mm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level Sensitivity: 0.02mm/m	Using Electronic Level and tilting table by comparison method	Up to 100 mm	0.0045mm

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54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level Sensitivity: 0.02mm/m	Using Electronic Level and tilting table by comparison method	Up to 300 mm	0.0056mm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level Sensitivity: 0.02mm/m	Using Electronic Level and tilting table by comparison method	Up to 200 mm	0.0050mm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauge	Using ULM, Measuring Pin& Gauge Block Set by comparison method	10 mm to 100 mm	0.0017mm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline ring Gauge	Using ULM, Measuring Pin& Gauge Block Set by comparison method	10 to 100 mm	0.0036mm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Rule L.C.: 0.5mm	Using VMS By Comparison Method	0 to 1000 mm	0.030mm

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59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Stick Micrometer	Using ULM by Comparison Method	50 mm to 500 mm	0.0063mm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level By Comparison Method	200 X 200 mm to 3000 X 1000 mm	2.5 x sqrt ((L+W)/100 (Where L and W are in mm)µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using VMS by comparison method	0.1 mm to 60 mm	0.020mm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Diameter)	Using ULM & Setting Ring Gauge by Comparison Method	6 mm to 100 mm	0.004mm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper thread Ring Gauge (Effective Diameter)	Using ULM & Setting Ring Gauge by Comparison Method	Up to 100 mm	0.0025mm

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64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Video Measuring Machine by Comparison Method	0.5 mm to 2.5 mm mm	0.0041mm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using ULM by comparison Method	2 mm to 4 mm	2.1µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using ULM by Comparison Method	5 µm to 2000 µm	0.0021mm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread measuring Wire	Using ULM By Comparison Method	0.17 mm to 6.35 mm	0.00115mm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge	Using VMS by Comparison method	0 to 25 mm	0.0043mm

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69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Flank Angle)	Using Video Measuring Machine by Comparison Method	55 ° to 60 °	4.041Arc of min
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge	Using ULM & Thread Measuring Wire by comparison method	1 mm to 2 mm	1.3µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / Wear Check Plug Gauge(Major and Effective Dia)	Using ULM & Thread Measuring Wire By Comparison Method	100 mm to 300 mm	0.0033mm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / Wear Check Plug Gauge(Major and Effective Dia)	Using ULM & Thread Measuring Wire By Comparison Method	2.0 mm to 100 mm	0.0017mm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge / Wear Check Ring Gauge(Minor and Effective Dia)	Using ULM And Master Ring Gauge By Comparison Method	100 mm to 300 mm	0.002mm

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74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge / Wear Check Ring Gauge(Minor and Effective Dia)	Using ULM And Master Ring Gauge By Comparison Method	3.0 mm to 100 mm	0.002mm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Bore Micrometer L.C.0.001mm	Using ULM / Master Ring Gauge By Comparison Method	5 mm to 40 mm	0.004mm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block Flatness Parallelism Symmetricity	Using Cylindrical Mandrel with dial Gauge by Comparison Method	40mm X 50 mm to 300mm X 300 mm	0.006mm
77	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (L.C: 0.0001 mm)-Linear Measurement	Using Long Gauge Block Set & Caliper Checker by Comparison Method	0 to 1000 mm	0.0109mm
78	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (L.C:0.0001 mm)-Linear Measurement	Using Caliper Checker & Long Gauge Block by Comparison Method	0 to 600 mm	0.0034mm

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79	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Gauge Blocks/ Long Gauge Blocks and Electronic Comparator by Comparison Method	0 to 600 mm	0.0088mm
80	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring Machine Radius Error	Using Contour master by comparison method	At 12.7 mm Radius	0.0014mm
81	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring Machine X-Axis	Using Contour master by comparison method	0 to 100 mm	0.0018mm
82	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring Machine Z-Axis	Using Contour master by comparison method	Up to 30 mm	0.0014mm
83	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Master Linear Error X axis.	Using Contour Measuring Machine	Upto 100 mm	0.0018mm
84	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Master Radius Error	Using Contour Measuring Machine	Upto 12.7 mm Radius.	0.0014mm
85	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester L.C.0.0001 mm	Using ULM and Electronic probe by Comparison method	0 to 25 mm	0.0017mm

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86	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Magnification	By using Glass Scale	1 X to 100 X	1.4%
87	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine Angle	By Using Angle gauge Block by comparison method	0 to 90 °	4arc min
88	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine Linear (X,Y axis)	using Glass Scale by comparison method	0 to 300 mm	0.0016mm
89	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roughness Master (Rz)	Using Roughness Tester with Roughness master by comparison method	Up to 600 µm	5.5%
90	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roughness Specimen	Using Roughness Tester, comparison method	Up to 5.0 µm	5.92 %
91	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roughness Standard for Roughness Parameter-Rmax	Using Roughness Tester and Roughness master by comparison method	Up to 600 µm	5.5%

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92	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roughness Standard for Roughness Parameter-Rt	Using Roughness Tester and Roughness master by comparison method	Up to 600 µm	5.85%
93	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roughness Tester-Rt	Using Roughness Master by comparison method	Up to 600 µm	5.9%
94	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roughness Tester-Depth	Using Roughness Master comparison method	Up to 600 µm	5.5%
95	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roughness Tester-Rmax	Using Roughness Master by comparison method	Up to 600 µm	5.5%
96	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roughness Tester-Rmax	Using Roughness Master comparison method	Up to 600 µm	5.5%
97	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roundness and Cylindiricity Master (Cylindricity)	Using Roundness Tester by comparison method	Up to 900 µm	1.37µm
98	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roundness Cylindiricity Master(Straightness)	Using Roundness Tester by comparison method	Up to 900 µm	0.001mm

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99	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roundness Master (Magnification)	Using Roundness Machine by comparison method	Up to 15.6 µm	1.0µm
100	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roundness Master (Roundness)	Using Roundness Tester with Hemisphere by comparison method	Up to 900 µm	0.07µm
101	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roundness Tester (Magnification)	Using magnification Master by compariosn method	Up to 900 µm	0.40µm
102	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roundness Tester-(Cylindricity)	Using hemisphere by comparison method	Up to 900 µm	0.07µm
103	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roundness Tester-(Straightness)	Using magnification Master by compariosn method	Up to 900 µm	1.0µm
104	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Set (Steel/Carbide)	Using Grade K Gauge Blocks,Gauge Blocks comparator by Comparison Method	50 mm to 100 mm	0.3µm
105	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Set (Steel/Carbide)	Using Grade K Gauge Blocks,Gauge Blocks comparator by Comparison Method	0.5 mm to 25 mm	0.2µm

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106	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Set (Steel/Carbide)	Using Grade K Gauge Blocks, Gauge Blocks comparator by Comparison Method	25 mm to 50 mm	0.2µm
107	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine	Using O Grade Slip Gauge Block by comparison method	0 to 100 mm	0.0008mm
108	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine	Using O Grade Slip Gauge Block	100 mm to 500 mm	0.0016mm
109	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauges, Pressure Transmitter, Pressure switches, (Hydraulic)	Using Digital Pressure Calibrator, DMM,Pressure Comparator Pump & DKD-R 6-1 by comparison method	0 bar to 700 bar	0.71bar
110	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauges, Pressure Transmitter, Pressure switches (Pnumatic)	Using Digital Pressure Calibrator, DMM,Pressure Comparator Pump & DKD-R 6-1 by comparison method	0 bar to 40 bar	0.038bar

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111	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauges, Pressure Transmitter, Pressure switches (Pnumatic)	Using Digital Pressure Calibrator, DMM, Pressure Comparator Pump & DKD-R 6-1 by comparison method	0 bar to 20 bar	0.021bar
112	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauges, Pressure Transmitter, Pressure switches, (Hydraulic)	Using Digital Pressure Gauge, DMM, Pressure Comparator Pump & DKD-R 6-1 by comparison method	0 bar to 1000 bar	1.3bar
113	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauges, Transducer, Transmitter, , Pressure switches, Manometers, Pressure Calibrators (Pneumatic)	Using Digital Pressure Calibrator, DMM ,Pressure Comparator Pump & DKD-R 6-1 by comparison method	0 bar to 2 bar	0.013bar
114	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauges, Vacuum Transmitter, Vacuum switches, Vacuum Indicator	Using Digital Pressure Calibrator,DMM, Pressure Comparator Pump & DKD-R 6-1 by comparison method	0 bar to -0.90 bar	0.03bar

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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dia/ Digital) L.C: 0.01mm	Using Caliper Checker by Comparison Method	0 to 600 mm	0.010mm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dia/ Digital) L.C: 0.01mm	Using Caliper Checker by Comparison Method	600 mm to 1000 mm	0.021mm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level By Comparison Method	200 X 200 mm to 3000 X 1000 mm	2.5 x sqrt ((L+W)/100 (Where L and W are in mm)µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tools Makers Microscope Linear	Using Glass Scale by Comparison Method	Up to 300 mm	0.0065mm

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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tools Makers Microscope Angle	By Using Angle Gauge Blocks by Comparison Method	0 to 360 °	4arc min
6	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (L.C: 0.0001 mm)-Linear Measurement	Using Long Gauge Block Set & Caliper Checker by Comparison Method	0 to 1000 mm	0.0109mm
7	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (L.C:0.0001 mm)-Linear Measurement	Using Caliper Checker & Long Gauge Block by Comparison Method	0 to 600 mm	0.0034mm
8	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring Machine Radius Error	Using Contour master by comparison method	At 12.7 mm Radius	0.0014mm
9	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring Machine X-Axis	Using Contour master by comparison method	0 to 100 mm	0.0018mm
10	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring Machine Z-Axis	Using Contour master by comparison method	Up to 30 mm	0.0014mm
11	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Magnification	By using Glass Scale	1 X to 100 X	1.4%

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12	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine Angle	By Using Angle gauge Block by comparison method	0 to 90 °	4arc min
13	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine Linear (X,Y axis)	using Glass Scale by comparison method	0 to 300 mm	0.0016mm
14	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roughness Tester (Ra)	Using Roughness Master by comparison method	Up to 5.0 µm	6.67%
15	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roughness Tester - Depth	Using Roughness Master by comparison method	0 to 0.47 mm	6.65%
16	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roughness Tester-Rt	Using Roughness Master by comparison method	Up to 600 µm	5.9%
17	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roughness Tester-Rmax	Using Roughness Master by comparison method	Up to 600 µm	5.5%
18	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roundness Tester (Cylindricity)	Using Cylindricity master by comparison method	Up to 900 µm	1.37µm

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19	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roundness Tester (Magnification)	Using magnification Master by compariosn method	Up to 900 µm	0.40µm
20	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roundness Tester (Roundness)	Using Roundness Tester with hemisphere by comparison method	Up to 900 µm	0.07µm
21	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roundness Tester (Straightness)	Using oundness tester with Cylindricity master by comparison method	Up to 900 µm	1.0µm
22	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine	Using O Grade Slip Gauge Block by comparison method	0 to 100 mm	0.0008mm
23	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine	Using O Grade Slip Gauge Block	100 mm to 500 mm	0.0016mm
24	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauges, Pressure Transmitter, Pressure switches, (Hydraulic)	Using Digital Pressure Calibrator, DMM,Pressure Comparator Pump & DKD-R 6-1 by comparison method	0 bar to 700 bar	0.71bar

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25	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauges, Pressure Transmitter, Pressure switches (Pnumatic)	Using Digital Pressure Calibrator, DMM,Pressure Comparator Pump & DKD-R 6-1 by comparison method	0 bar to 40 bar	0.038bar
26	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauges, Pressure Transmitter, Pressure switches (Pnumatic)	Using Digital Pressure Calibrator, DMM, Pressure Comparator Pump & DKD-R 6-1 by comparison method	0 bar to 20 bar	0.021bar
27	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauges, Pressure Transmitter, Pressure switches, (Hydraulic)	Using Digital Pressure Gauge, DMM, Pressure Comparator Pump & DKD-R 6-1 by comparison method	0 bar to 1000 bar	1.3bar
28	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauges, Transducer, Transmitter, , Pressure switches, Manometers, Pressure Calibrators (Pneumatic)	Using Digital Pressure Calibrator, DMM ,Pressure Comparator Pump & DKD-R 6-1 by comparison method	0 bar to 2 bar	0.013bar

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29	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauges, Vacuum Transmitter, Vacuum switches, Vacuum Indicator	Using Digital Pressure Calibrator,DMM, Pressure Comparator Pump & DKD-R 6-1 by comparison method	0 bar to -0.90 bar	0.03bar

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