National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : S.V. ENGINEERING CENTRE, PLOT NO. E-3, SANJAY COLONY SEC-23, FARIDABAD, HARYANA, 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 L.C. 0.0005 mm	Using Plain Plug/ Ring Gauge (Type A,B,C)	+/-0.04 mm	1.5µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge	Using Sine Bar , Gauge Block & Electronic Probe.	Upto 90 deg	2sec
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre(Co-axiality , Parallelism)	Using Level , Standard Mandrels & Lever Type Dial Gauge.	1500 mm	4.4µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector L.C. 5 min	Using Standard Angle Gauge	0 -180-0 deg	4min

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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector L.C. 5 min	Using CMM	Upto 180 Deg	5sec
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (2 Point)	Using Dial Calibrator Tester/ Gauge Blocks	2.0 mm	2.5µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (3 Point)	Using Master Ring Gauge	100 mm	2.5µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Clinometers / Inclinometrs L. C. : 1'	Using Sine Bar , Gauge Blocks.	0-180-0 deg	40sec

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9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CNC Machine Tools	Using Laser Measuring System	0 m to 30 m	0.5+L/1000 (L is in mm)µm/m
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Meter (L. C - 0.001 mm)	Using Standard Foils.	0.01 mm to 1 mm	2.5µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set L.C. 30 min / 1 Degree	Using Sine Bar / Gauge Block & Angle Gauges	180 deg	35min
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator stand	Using Gauge Block , Optical Flat, Dial Gauge Spirit Level 10µm/m	200x200 mm x mm	2.5µm

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13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cone	Using CMM	360 deg	2sec
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Square - Angle Plate/ Box Plate/ Engineer Square .	Using CMM	700 mm	3.0µm/m
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Square - Angle Plate/ Box Plate/ Engineer Square .	Using Gauge Blocks & Cylindrical Square.	Upto 450 mm	6.0µm/m
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge/Depth Vernier L.C 0.01 mm	Using Gauge Blocks.	Upto 500 mm	15µm

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17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C. 0.001 mm	Using Gauge Blocks.	Upto 300 mm	3.1µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth/Inside Micro Checker	Using Gauge Block & Electronic Probe.	0 mm to 300 mm	1.8µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth/Inside Micro Checker	Using Laser Measuring System	300 mm	0.22µm/m
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge / Plunger Lever Type Dial L.C 0.001 mm	Using Dial Calibrator Tester/ Gauge Blocks	Upto 25 mm	0.292µm

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21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge	Using Gauge Blocks.	Upto 200 mm	1.1µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge/ Flush Pin Gauge L.C 0.001 mm	Using Gauge Blocks	0 mm to 25 mm	1µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer	Using Gauge Block & Electronic Probe.	0 mm to 150 mm	1.8µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C 0.001 mm	Using Gauge Blocks & Optical Flat.	0 mm to 100 mm	1.0µm

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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C 0.001 mm	Using Gauge Blocks ,optical flat & Length Bars.	300 mm to 500 mm	4.0µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C 0.01 mm	Using Length Bar.	500 mm to 1500 mm	15.0µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C 0.001 mm	Using Gauge Block, Length Bar & Optical Flat.	100 mm to 300 mm	1.30µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Filler Gauge	Using Digital Micrometer	Upto 1.0 mm	1.4µm

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29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C.: 0.01mm	Using Gauge Blocks / Length Bar & Electronic Probe.	0 mm to 1500 mm	9.5µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital Electronic Comparator L.C 0.0001 mm)	Using Gauge Block , Electronic Probe & Length Bar.	0 mm to 1000 mm	4.9µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital Electronic Comparator L.C 0.0001 mm)	Using Gauge Block & Electronic Probe.	0 mm to 600 mm	2.0µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge / 2 D Height Gauge L.C 0.0001 mm	Using Laser Measuring System	Upto 2000 mm	0.22µm/m

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33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Micrometer / Check Master L.C. 0.001 mm	Using Gauge Blocks & Electronic Probe.	0 mm to 600 mm	1.8µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper (L C -0.010 mm)	Using Caliper Checker.	5 mm to 95 mm	8.0µm
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C 0.001 mm	Using Caliper Checker , Gauge Blocks & Optical Flat.	5 mm to 50 mm	6.2µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C 0.001 mm	Using Gauge Blocks,Optical Flat,Lever Type Dial Gauge.	50 mm to 600 mm	7.0µm

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37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Standard - (i) Length Bar (Long Gauge Blocks) (ii) Micrometer Setting Rods. (iii) Setting Rods	Using Gauge Blocks & Electronic Probe	500 mm	1.5µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Standard - (i) Setting Rods	Using Gauge Block, Electronic Probe & Length Bar.	500 mm to 1500 mm	12.0µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Standard - Level Calibrator	CMM	0 mm to 500 mm	2.7µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C -0.5 mm)	Using Scale Tape & Calibrator.	0 mm to 1000 mm	50.0µm

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41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/PI Tape/ Count Meter.	Using Scale & Tape Calibrator.	0 m to 50 m	50µm/m
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head L.C. 0.2 µm	Using Gauge Block & Electronic Probe.	0 mm to 50 mm	0.183µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Notch	Using CMM	5 mm to 600 mm	{(2.5 +L/250) L is in mm}µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Notch	Using Profile Projector	Upto 100 mm	10.2sec

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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge-Angle/Pitch	Using Profile Projector	0 mm to 7 mm	2.0µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge-Angle/Pitch	Using Profile Projector	Upto 60 deg	4min
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical Setting Masters	Using Gauge Block & Electronic Probe.	Upto 500 mm	3.2µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical-Cylindrical Pins	Using Gauge Blocks & Electronic Probe.	Upto 500 mm	1.3µm

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49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical-Measuring Prism	Using Gauge Blocks & Electronic Probe	Upto 100 mm	0.7µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical-Plug Gauge	Using Gauge Blocks & Electronic Probe	100 mm to 500 mm	1.3µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical-Plug Gauge/ Cylindrical Pins / Measuring Prism / Wires /Setting Masters.	Using Laser Measuring System	Upto 400 mm	0.22µm/m
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical-Plug Gauge/ Cylindrical Pins / Measuring Prism / Wires /Setting Masters.	Using CMM	Upto 500 mm	3.2µm

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53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical-Plug Gauge	Using Gauge Blocks & Electronic Probe / LMM	Upto 100 mm	0.7µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using Gauge Blocks/ LMM	200 mm to 400 mm	4.0µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using Gauge Blocks/ LMM	Upto 200 mm	1.0µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using CMM	Upto 500 mm	4.0µm

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57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Gauge(Ring / Plug)	Using CMM	0 Deg to 180 Deg	1.2sec
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Gauge(Ring / Plug)	Using Sine Bar , Gauge Blocks , Standard Pins & Micrometer.	0 deg to 180 deg	1.5sec
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/Taper Mandrel (Cone Angle)	Using Gauge Blocks , Sine Centre & Dial Indicator.	Upto 500 mm	1.1sec
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/Taper Mandrel (Variation Of Diameter , Total Run out)	Using Gauge Blocks , Sine Centre & Dial Indicator.	Upto 500 mm	2.787µm

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61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/Taper Mandrel (Variation Of Diameter , Total Run out , Cone Angle,Straightness, Length)	Using CMM	Upto 500 mm	2.5+ L/250(L is in mm)µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using CMM	Upto 700 mm	1.5 + (L/300)(L is in mm)µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge / Radius Chart	Using Profile Projector	0.5 mm to 100 mm	6.0µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiver Gauge/ C.D Gauge/ Jig Fixtures/ Width Gauge/Limit Gauge	Using CMM	Upto 700 mm	2.5+(L/250) (L is in mm)µm

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65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Riser Block	Using Gauge Block & Electronic Probe.	Upto 300 mm	1.3µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sieve	Using Profile projector	0.02 mm to 4 mm	5µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sieve	Using Digital Caliper	4 mm to 100 mm	16µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Angle)	Using Gauge Blocks & Electronic Probe.	Upto 90 deg	1.20sec

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69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Angle)	Using CMM	Upto 90 deg	1.56sec
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Parallelism / Flatness / Centre Distance)	Using Gauge Block & Electronic Probe	Upto 500 mm	2micron
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Parallelism / Flatness / Centre Distance)	Using CMM	Upto 500 mm	3.2µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Angle)	Using CMM	Upto 90 deg	1.56sec

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73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Parallelism / Flatness / Centre Distance)	Using CMM	Upto 500 mm	2.5+(L/250)(L is in mm)µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Parallelism / Flatness / Centre Distance)	Using Gauge Block & Electronic Probe	Upto 500 mm	3.51µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slip Gauge Accessories	Using Gauge Block , Electronic Probe & Optical Flat.	300 mm	2.0µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauge	Using Standard Pin , Floating Carriage.	2 mm to 100 mm	3.3µm

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77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge	Using Standard Pins & Gauge Blocks	5 mm to 100 mm	1.0µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge	Using standard Pins, LMM & Gauge Blocks.	5 mm to 300 mm	2µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge/ Spline Plug Gauge	Using CMM, Standard Pins.	Upto 500 mm	1.5 + L/300 (L is in mm)µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Squareness L.C 0.01 µm	Using Cylindrical Square & electronic Probe	450 mm	3.208µm

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81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foil Set	Using Gauge Blocks & Electronic Probe.	Upto 1 mm	1.4µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge(Straightness)	Using Level	Upto 2000 mm	1.9v(L/100)(L is in mm)µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate(Flatness)	Using Precision Level	Upto 6000 x 2000 mm	{1.3v(L + W/100)/1/2 L &W is in mm}µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Mandrel (Cone Angle)	Using CMM	Upto 500 mm	8.1sec

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85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness & Elongation Gauge (Dimension Only)	Using Digital Caliper	14.7 mm to 81.0 mm	10.58µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness & Elongation Gauge (Dimension Only)	Using Digital Caliper	4.8 mm to 33.90 mm	10.58µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Micrometer L.C 0.001 mm	Using Standard Wear Check Plug	0.7 mm to 2.5 mm	4.6µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge/ WCP(Plain/Taper)	Using LMM,Cylinder Setting Master/Standard Wires.	1 mm to 100 mm	1.61µm

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89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge/ WCP(Plain/Taper)	Using LMM, Cylinder Setting Master/Standard Wires.	100 mm to 400 mm	1.61 µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge/ Taper Thread Ring Gauge	Using LMM Machine	100 mm	1.0µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tool Maker / Universal Measuring Microscope L.C. 0.001 mm	Using Glass Scale.	Upto 50 mm	7.12µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tool Maker / Universal Measuring Microscope L.C. 0.001 mm	Using Laser Measuring System	Upto 500 mm	0.22µm/m

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93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism/ Flatness/ Squareness Angle Of "V")	Using Gauge Block ,Cylindrical Square & Mandrel.	Upto 150 mm	7.2µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism/ Flatness/ Squareness Angle Of "V")	Using Angle Gauges & Electronic Probe	Upto 150 mm	9.0sec
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism/ Flatness)	Using CMM	200 mm	4.0µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Squareness of Angle "V")	Using CMM	90 °	4.0sec

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97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C 0.01 mm	Using Length Bar, Caliper Checker & Gauge Blocks	0 mm to 1000 mm	12.0µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C 0.01 mm	Using Gauge Blocks & Length Bars.	0 mm to 2000 mm	15.0µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C 0.01 mm	Using Caliper Checker	0 mm to 300 mm	7.4µm
100	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Glass Scales / Glass Grid	Using Laser Measuring System By Comparison Method.	0 mm to 400 mm	0.22µm/m
101	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	3 D Co-ordinate Measuring Machine	Using Step Gauge & Std. Angle Fixture, Hemisphere.	1x1x1 m	6xL(where L is in meter)µm

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102	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Angular Graticule	Using Profile Projector	0 degree to 360 degree	2.2second
103	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Ball Bar System -Ball Bar Calibrator.	CMM	300 mm	1.5+ L/300 µm (L is in mm)
104	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Ball Bar System -Ball Bar Transducer.	LMM / ULM	1.0 mm	0.7µm @ 100 mm
105	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Laser Measuring System	1000 mm	0.220µm/m
106	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Gauge Block & Electronic Probe..	600 mm	2.1µm
107	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	CMM	600 mm	4.0µm
108	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Length Bar & Electronic Probe	600 mm to 1000 mm	4.4µm

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109	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibrator Tester 0.0001 mm	Using Gauge Blocks.	25 mm	0.22µm
110	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe L.C 0.01 µm / 0.1 µm	Using Gauge Block.	25 mm	0.12µm
111	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe L.C 0.01 µm / 0.1 µm	Using Laser Measuring System	25 mm	0.22µm/m
112	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage DMM L.C 0.02 µm Straightness/ Concentricity / Micrometer Travel / Flatness of Measuring Faces.	Using Gauge Blocks / Electronic Probe / Cylindrical Setting Master.	175 mm	3.0µm
113	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	Using Gauge Block Comparator / Gauge Block	0.5 mm to 10 mm	0.104µm
114	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	Using Gauge Block Comparator / Gauge Block	10 mm to 25 mm	0.107µm

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115	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	Using Gauge Block Comparator / Gauge Block	25 mm to 50 mm	0.125µm
116	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	Using Gauge Block Comparator / Gauge Block.	50 mm to 100 mm	0.192µm
117	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Comparator L.C 0.01 µm	Using Standard Gauge Blocks M10.	100 mm	0.05µm
118	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length / Universal Measuring Machine L.C 0.01µm	Using Gauge Blocks.	100 mm	0.7µm
119	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length / Universal Measuring Machine L.C 0.01µm	Using Laser Measuring System	1000 mm	0.220µm/m
120	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length / Universal Measuring Machine L.C 0.01µm	Using Gauge Blocks	500 mm	1.0µm

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121	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Standard - (i) Length Bar (Long Gauge Blocks) (ii) Micrometer Setting Rods. (iii) Setting Rods	Using Laser Measuring System	1000 mm	0.22µm/m
122	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Standard - (i) Length Bar (Long Gauge Blocks) (ii) Micrometer Setting Rods. (iii) Setting Rods	Using Laser Measuring System	1000 mm	0.8 µm@300mm
123	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Level/Electronic Level Sensitivity 0.001 mm/m	Using Level Calibrator C/C 500 mm	5 mm/m	0.7second
124	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Flat Type A Flatness	Using Monochromatic Light,Master Optical Flat.	100 mm	0.202µm
125	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Parallel Optics Flats Type B Flatness of Both Faces	Using Monochromatic light,Master Optical Flat	100 mm	0.202µm

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126	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Parallel Optics Flats Type B Flatness of Both Faces Grade I And II Size	Using Gauge Block & Comparator.	100 mm	0.069µm
127	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Plain Ring Gauge	Using Gauge Block & Electronic Probe / LMM	100 mm to 400 mm	3.0µm
128	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Plain Ring Gauge	Using Gauge Block & Electronic Probe/ LMM	2 mm to 100 mm	1.1µm
129	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Plain Ring Gauge	Using Laser Measuring System	2 mm to 400 mm	0.22µm/m
130	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Plain Ring Gauge	Using Laser Measuring System	2 mm to 400 mm	0.35µm/m
131	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Plain Ring Gauge	CMM	2 mm to 500 mm	1.5 + L/300µm

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132	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Linear Scale L.C. 0.001 mm	Using Laser Measuring System	500 mm	0.22µm/m
133	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Magnification Upto 100X , Linear Scale L.C. 0.001 mm Angular Scale L.C. 1 arc sec	Using Glass Scale	200 mm	3.108µm
134	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Magnification Upto 100X , Linear Scale L.C. 0.001 mm Angular Scale L.C. 1 arc sec	Using Glass Scale & Angle Gauge .	200*360 mm Deg	0.16%
135	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Magnification Upto 100X , Linear Scale L.C. 0.001 mm Angular Scale L.C. 1 arc sec	Using Angle Gauges	360 deg	2.1second
136	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale / Tape Calibrator	Using Laser Measuring System	1000	5µm @1000mm

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137	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale / Tape Calibrator	Using Gauge Blocks & Length Bar.	1000 mm	42µm/m
138	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale / Tape Calibrator	Using Laser Measuring System	1000 mm	5µm@1000mm
139	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge	Using Laser Measuring System	1000 mm	0.22µm/m
140	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge	Using Laser Measuring System	1000 mm	0.5µm@1000mm
141	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge	Using Gauge Block & Electronic Probe.	600 mm	2.1µm
142	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge	CMM	600 mm	4.0µm
143	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge	CMM	600 mm	4.0µm

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144	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge	Using Length Bar & Electronic Probe.	600 mm to 1000 mm	4.4µm
145	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester L.C 0.01 µm	Using Surface Roughness master/ Optical Flat / Step Gauge	Ra 5 µm to Rmax 15 µm	6.4%
146	MECHANICAL-DUROMETER	Rubber Hardness Tester(Durometer)	Using Rubber Hardness Calibrator	100 Shore A	0.02
147	MECHANICAL-DUROMETER	Rubber Hardness Tester(Durometer)	Using Rubber Hardness Calibrator	100 Shore D	0.106N
148	MECHANICAL-DUROMETER	Using Rubber Hardness Calibrator	Using Weights	100 Shore A	0.02N
149	MECHANICAL-DUROMETER	Using Rubber Hardness Calibrator	Using Weights	100 Shore D	0.02N

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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit L.C. 0.0005 mm	Using Plain Plug/ Ring Gauge (Type A,B,C)	+/-0.04 mm	1.5µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre(Co-axiality , Parallelism)	Using Level , Standard Mandrels & Lever Type Dial Gauge.	1500 mm	4.4µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CNC Machine Tools	Using Laser Measuring System	0 m to 30 m	0.5+L/1000 (L is in mm)µm/m
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Square - Angle Plate/ Box Plate/ Engineer Square .	Using CMM	700 mm	3.0µm/m

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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Square - Angle Plate/ Box Plate/ Engineer Square .	Using Gauge Blocks & Cylindrical Square.	Upto 450 mm	6.0µm/m
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge(Straightness)	Using Level	Upto 2000 mm	1.9v(L/100)(L is in mm)µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate(Flatness)	Using Precision Level	Upto 6000 x 2000 mm	{1.3v(L + W/100)/1/2 L &W is in mm}µm
8	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	3 D Co-ordinate Measuring Machine	Using Step Gauge & Std. Angle Fixture, Hemisphere.	1x1x1 m	6xL(where L is in meter)µm
9	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage DMM L.C 0.02 µm Straightness/ Concentricity / Micrometer Travel / Flatness of Measuring Faces.	Using Gauge Blocks / Electronic Probe / Cylindrical Setting Master.	175 mm	3.0µm

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Accreditation Standard ISO/IEC 17025:2017

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*The validity is extended for one year up to 10.02.2023

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10	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Comparator L.C 0.01 µm	Using Standard Gauge Blocks M10.	100 mm	0.05µm
11	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length / Universal Measuring Machine L.C 0.01µm	Using Gauge Blocks.	100 mm	0.7µm
12	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length / Universal Measuring Machine L.C 0.01µm	Using Laser Measuring System	1000 mm	0.220µm/m
13	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length / Universal Measuring Machine L.C 0.01µm	Using Gauge Blocks	500 mm	1.0µm
14	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Linear Scale L.C. 0.001 mm	Using Laser Measuring System	500 mm	0.22µm/m
15	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Magnification Upto 100X , Linear Scale L.C. 0.001 mm Angular Scale L.C. 1 arc sec	Using Glass Scale & Angle Gauge .	200*360 mm Deg	0.16%

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16	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roundness Tester / Radial / Axial /Straightness.	Using Gauge Blocks ,Master Cylinder , Hemishphere.	300x350 mm	0.15µm
17	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale / Tape Calibrator	Using Laser Measuring System	1000	5µm @1000mm
18	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale / Tape Calibrator	Using Gauge Blocks & Length Bar.	1000 mm	42µm/m
19	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale / Tape Calibrator	Using Laser Measuring System	1000 mm	5µm@1000mm
20	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester L.C 0.01 µm	Using Surface Roughness master/ Optical Flat / Step Gauge	Ra 5 µm to Rmax 15 µm	6.4%

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