National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

SACARDANDE ENGINEERS PVT LTD

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

PAP R-158, 159, TTC INDUSTRIAL AREA, MIDC RABALE, PIPELINE ROAD, RABALE, NAVI MUMBAI, MUMBAI SUBURBAN, MAHARASHTRA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2558

Issue Date: 26/03/2020 **Valid Until:** 25/03/2022

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL

Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SACARDANDE ENGINEERS PVT LTD, PAP R-158, 159, TTC INDUSTRIAL AREA, MIDC RABALE, PIPELINE ROAD, RABALE, NAVI MUMBAI, MUMBAI SUBURBAN, MAHARASHTRA, INDIA

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum	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 Gauge Set	Using Surface Plate, Sine Bar, Slip Gauge and Digital Probe	6 sec to 60 Deg	46sec. of arc
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Dial Gauge (Transmission Error) L.C: 0.001 mm	Using Length Measuring Machine By Comparison Method	0 to 1 mm	3.65µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge	Using Thickness Foil	0 to 1000 µm	24µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Sets L.C.: 1°	Using Angle Gauges By Comparison Method - Quadrant wise	0 to 90 °	39.0 min.
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge L.C.: 0.01 mm	Using Gauge Block Grade 0 Surface Plate By Comparison Method	0 to 300 mm	9.5 µm

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6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C.: 0.001 mm	Using Gauge Block Grade 0 Surface Plate By Comparison Method	0 to 150 mm	3.1 µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Depth Gauge L.C.: 0.010 mm	Using Gauge Block Grade 0 Surface Plate By Comparison Method	Up to 300 mm	6 µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge Tester L.C.: 0.0002 mm	Using Electronic probe, Slip Gauge by comparison method.	Up to 25 mm	1.12 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge Tester L.C.: 0.001 mm	Using Electronic Probe, Slip Gauge By Comparison Method	Up to 25 mm	1.12 µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.: 0.001 mm	Using Gauge Block Set By Comparison Method	0 to 25 mm	0.8 µm

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11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.: 0.010 mm	Using Gauge Block Set By Comparison Method	0 to 50 mm	5.1 µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital / Analog Bevel Protractor L.C.: 5 min	Using Angle Gauges By Comparison Method - All 4 Quadrant	0 to 90 °	6.6 min. of arc
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Protractor L.C.: 0.1°	Using Angle Gauges by Comparison method	0 to 90 °	6.6 min.
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Parallels (Parallelism)	Using Lever Dial Indicator By Comparison Method	Up to 100 mm	5.3 µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.001 mm	Using Gauge Block set & Micrometer Setting standard & long Slip Gauge By Comparison Method	0 to 25 mm	1.0µm

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16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.001 mm	Using Gauge Block set & Micrometer Setting standard & long Slip Gauge By Comparison Method	150 mm to 300 mm	5.3 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.001 mm	Using Gauge Block set & Micrometer Setting standard & long Slip Gauge By Comparison Method	25 mm to 150 mm	2.87µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.01 mm	Using Gauge block set & micrometer setting standard & long slip gauge by comparisonmethod	1000 mm to 1200 mm	13.0µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.01 mm	Using Gauge Block set & Micrometer Setting standard & long Slip Gauge By Comparison Method	300 mm to 400 mm	10.8 µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.01 mm	Using Gauge Block set & Micrometer Setting standard & long Slip Gauge By Comparison Method	400 mm to 500 mm	11.95 µm

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21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.01 mm	Using Gauge Block set & Micrometer Setting standard & long Slip Gauge By Comparison Method	500 mm to 600 mm	12.9µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.01 mm	Using Gauge Block set & Micrometer Setting standard & long Slip Gauge By Comparison Method	600 mm to 700 mm	13.0µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: 0.01 mm	Using Gauge Block set & Micrometer Setting standard & long Slip Gauge By Comparison Method	700 mm to 800 mm	17.1 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External micrometer L.C.: 0.01 mm	Using Gauge block Set & micrometer Setting standard & long slip gauge by comparison method.	800 mm to 900 mm	13.0µm
25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External micrometer L.C.: 0.01 mm	Using gauge block set &micrometer setting standard & long slip gauge by comparison method.	900 mm to 1000 mm	13µm

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26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital probe & comparator	0.01 mm to 1 mm	1.8µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial, Digital & Analog) L.C.: 0.01 mm	Using Gauge Block Grade 0 & Caliper Checker Surface Plate By Comparison Method	0 to 1000 mm	21.0 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial, Digital & Analog) L.C.: 0.01 mm	Using Gauge Block Grade 0 & Caliper Checker Surface Plate By Comparison Method	0 to 300 mm	9.12 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial/Digital/Analog) L.C.: 0.01 mm	Using Slip Gauge Block Set Long Slip Gauge By Comparison Method	0 to 600 mm	13.9 µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper L.C.: 10 µm	Using Slip Gauge Set Grade 0, Slip Gauge Accessories, LMM By Comparison Method	10 mm to 95 mm	16.0 µm

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31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Digital Caliper L.C.: 10 µm	Using Gauge Block Set By Comparison Method	5 mm to 17.5 mm	16 µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Caliper Type) L.C.: 0.001 mm	Using Slip Gauge Set , Micrometer Setting standard & Plunger Dial By Comparison Method	3 mm to 100 mm	1.90 µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Stick Type) L.C.: 0.010 mm	Slip Gauge Set , Micrometer Setting standard & Plunger Dial By Comparison Method	25 mm to 500 mm	12.50 µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Stick Type) L.C.: 0.010 mm	Using Slip Gauge Set , Micrometer Setting standard & Plunger Dial By Comparison Method	500 mm to 1000 mm	21.1 µm
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauges L.C.: 0.001 mm	Using LMM By Comparison Method	0 to 2 mm	1.1 µm

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36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT Probe L.C.: 0.0001 mm	Using Slip Gauge	0 to 25 mm	1 µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins	Using LMM By Comparison Method	Up to 20 mm	1.67 µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale L.C.: 0.5 mm/1 mm	Using Scale & Tape Calibrator By Comparison Method	0 to 2000 mm	169 µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale L.C.: 0.5 mm/1.0 mm	Using Scale & Tape Calibrator By Comparison Method	Up to 1000 mm	119 µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape L.C.: 0.5 mm/1.0 mm	Using Scale & Tape Calibrator By Comparison Method	Up to 50000 mm	119vL µm (L in meter)

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41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head L.C.: 0.001 mm	Using Gauge Block Grade 0 and Electronic Probe By Comparison Method	Up to 25 mm	2.8 µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Gauge Block Grade 0 & Long Slip Gauge, Probe DRO, Surface plate. By Comparison Method	0 to 150 mm	3.35 µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Slip Gauge grade 0, Long slip gauge, Probe DRO and surface plate by comparison method	1000 mm to 1200 mm	11 µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Gauge Block Grade 0 & Long Slip Gauge, Probe DRO, Surface plate. By Comparison Method	150 mm to 300 mm	7.0 µm
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Gauge Block Grade 0 & Long Slip Gauge , Probe DRO, Surface plate. By Comparison Method	300 mm to 400 mm	7.5 µm

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46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Gauge Block Grade 0 & Long Slip Gauge , Probe DRO, Surface plate. By Comparison Method	400 mm to 500 mm	9.14 µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Gauge Block Grade 0 & Long Slip Gauge, Probe DRO, Surface plate. By Comparison Method	500 mm to 600 mm	10.5 µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Gauge Block Grade 0 & Long Slip Gauge, Probe DRO, Surface plate. By Comparison Method	600 mm to 800 mm	14.50 µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Gauge Block Grade 0 & Long Slip Gauge, Probe DRO, Surface plate. By Comparison Method	800 mm to 1000 mm	18.7 µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Dial Caliper L.C.: 10 µm	Using Gauge Block Set By Comparison Method	0 to 10 mm	4.95 µm

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51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape	Using scale and tape calibrator by comparison method	Up to dia 50000 mm	(363 x sqrt(L)) µm (L in m)
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C.: 100 µm	Using Gauge Block Set By Comparison Method	0 to 50 mm	35.1 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using LMM100 master ring gauge By Comparison Method	Ø 100 mm to 300 mm	4.6µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using LMM 100 master ring gauge By Comparison Method	Ø Up to 100 mm	2.1µm
55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using LMM master ring gauge by comparison method.	100 mm to 300 mm	3.4µm

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56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using LMM 100 Master Ring Gauge By Comparison Method	3 mm to 100 mm	2.1µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauges L.C.: 0.0005 mm	Using LMM 100 Dial Gauge Tester By Comparison Method	0 to 0.025 mm	0.80 µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauges L.C.: 0.0005 mm	Using LMM 100 Dial Gauge Tester By Comparison Method	0 to 0.10 mm	0.80 µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauges L.C.: 0.0010 mm	Using LMM 100 Dial Gauge Tester By Comparison Method	0 to 1 mm	0.90 µm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauges L.C.: 0.0010 mm	Using LMM 100 Dial Gauge Tester By Comparison Method	0 to 50 mm	1.1 µm

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61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauges L.C.: 0.010 mm	Using LMM 100 Dial Gauge Tester By Comparison Method	0 to 50 mm	3.9 µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Protractor L.C. 1°	Using profile projector by comparison method.	0 to 360 °	3 min.
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge (Convex and Concave)	Using profile projector by comparison method	0.4 mm to 25 mm	23 µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale & Tape Calibrator L.C.: 0.001 mm	Using Gauge Block Set Micrometer Setting standard By Comparison Method	0 to 1000 mm	13.0 µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar	Using Surface plate, Slip gauge, angle gauge and digital probe	300 mm	60 sec.

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66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Block Set, ULM By Comparison Method	2 mm to 160 mm	1.9 µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step Block (Thickness)	Using Gauge Block Set, Plunger Dial By Comparison Method	0 to 100 mm	6.2 µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge	Using Lever Dial Indicator By Comparison Method	Up to 500 mm	15.0 µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using Profile Projector by Comparison method.	0 to 100 mm	18.0µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Diameter Only)	Using ULM, FCDM, Thread Measuring Wire By Comparison Method	Ø Up to 100 mm	12.3µm

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71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel	Using profile projector by comparison method.	Up to 10 mm	9 µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves(Aperture Size)	Using Profile Projector, caliper by comparison method.	0.02 mm to 100 mm	7 µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using Digital probe & comparator	0 to 25 mm	1.8 µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread pitch Gauge Linear & Included	Using Profile Projector by comparison method	Linear 0.3 mm to 6 mm Ang	Linear 12 µm Angular 10.5 min.
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter only)	Using ULM, FCDM, Thread Measuring Wire By Comparison Method	Ø 1.6 mm to 100 mm	4.49µm

SCOPE OF ACCREDITATION

Laboratory Name : SACARDANDE ENGINEERS PVT LTD, PAP R-158, 159, TTC INDUSTRIAL AREA, MIDC RABALE, PIPELINE ROAD, RABALE, NAVI MUMBAI, MUMBAI SUBURBAN, MAHARASHTRA, INDIA

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76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter only)	Using LMM, Thread Measuring wire by comparison method	Ø 100 mm to 300 mm	3.5µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter Only)	Using ULM and Master Ring Gauge by comparison method	Ø 100 mm to 300 mm	4.0µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter Only)	Using LMM 100 Master Ring Gauge By Comparison Method	Ø 3 mm to 100 mm	2.1µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge LC 0.010mm	Using Thickness Step Block By Comparison Method	Up to 100 mm	32.2 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Symmetricity , Parallelism of faces & V axis to base)	Using Cylindrical Mandrels Lever Dial Indicator By Comparison Method	Up to 300 mm	6.40 µm

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81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Calipers (Dial/Digital/Analog) L.C.: 0.010 mm	Using Gauge Block Grade '0' & Caliper Checker By Comparison Method	0 to 1000 mm	15.6 µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Calipers (Dial/Digital/Analog) L.C.: 0.010 mm	Using Gauge Block Grade '0' & Caliper Checker By Comparison Method	0 to 300 mm	12.46 µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge (Scale/ Depth) L.C: 0.001 mm	Using Profile Projector, Tape & Scale Calibrator and Slip Gauge by comparison method	Up to 35 mm	19.0 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge(Angle) L.C: 1'	Using Profile Projector, Tape and Scale Calibrator and Slip Gauge By comparison method	Up to 90 °	13.4min
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Chamfer Gauge	Using Profile projector	0 to 90 Deg	13.4 min.

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86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Fillet Radius Gauge	Using profile Projector by comparison method	0 to 25 mm	23 µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using profile projector by Comparison method.	Up to 10 mm	9.5 µm
88	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Angular L.C. 1"	Using linear Graticule , glass angular graticule, measuring scale glass digital caliper by comparison method	up to 360 Degrees	9.62 sec. of arc
89	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Linear L.C.: 0.001 mm	Using linear Graticule , glass angular graticule, measuring scale glass digital caliper by comparison method	up to 200 mm	6.25 µm
90	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector magnification	Using linear Graticule , glass angular graticule, measuring scale glass digital caliper by comparison method	Up to 50 X	0.1 %

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91	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Digital/Analog Pressure Gauge , Indicator, Pressure Transmitter, Pressure Switches	Using Digital Pressure Gauge By Comparison Method	0 to 160 bar	0.15 bar
92	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Digital/Analog Pressure Gauge , Indicator, Pressure Transmitter, Pressure Switches	Using Digital Pressure Gauge By Comparison Method	0 to 350 bar	0.17 bar
93	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Digital/Analog Pressure Gauge , Indicator, Pressure Transmitter, Pressure Switches	Using Digital Pressure Gauge By Comparison Method	0 to 700 bar	0.46 bar
94	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Digital/Analog Pressure Gauge , Indicator, Pressure Transmitter, Pressure Switches	Using Digital Pressure Gauge By Comparison Method	0 to 20 bar	0.011 bar
95	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Digital/Analog Pressure Gauge , Indicator, Pressure Transmitter, Pressure Switches	Using Digital Pressure Gauge By Comparison Method	0 to 35 bar	0.04 bar

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96	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Digital/Analog Pressure Gauge , Indicator, Pressure Transmitter, Pressure Switches	Using Digital Pressure Gauge By Comparison Method	0 to 6 bar	0.08 bar
97	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Dial / Digital)	Using Digital Pressure Gauge and Vacuum Pump By Comparison Method	-0.90 bar to 0 bar	0.08bar
98	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I Class A to Class E) and (Type II Class A to Class G)	Using Electronic Torque Wrench Calibration (Mechanized) by Comparison Method as per ISO 6789:2017	0.1 Nm to 1 Nm	1.65 % of rdg.
99	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I Class A to Class E) and (Type II Class A to Class G)	Using Electronic Torque Wrench Calibration (Mechanized) by Comparison Method as per ISO 6789:2017	1 Nm to 5 Nm	1.65 % of rdg.
100	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I Class A to Class E) and (Type II Class A to Class G)	Using Electronic Torque Wrench Calibration (Mechanized) by Comparison Method as per ISO 6789:2017	20 Nm to 100 Nm	0.93 % of rdg.

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101	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I Class A to Class E) and (Type II Class A to Class G)	Using Electronic Torque Wrench Calibration (Mechanized) by Comparison Method as per ISO 6789:2017	4 Nm to 20 Nm	0.96 % of rdg.
102	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I Class A to Class E) and (Type II Class A to Class G)	Using Electronic Torque Wrench Calibration (Mechanized) by Comparison Method as per ISO 6789:2017	400 Nm to 2000 Nm	1.06 % of rdg.
103	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I Class A to Class E) and (Type II Class A to Class G)	Using Electronic Torque Wrench Calibration (Mechanized) by Comparison Method as per ISO 6789:2017	80 Nm to 400 Nm	1.10 % of rgd.

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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial, Digital & Analog) L.C.: 0.01 mm	Using Gauge Block Grade 0 & Caliper Checker Surface Plate By Comparison Method	0 to 1000 mm	21.0 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial, Digital & Analog) L.C.: 0.01 mm	Using Gauge Block Grade 0 & Caliper Checker Surface Plate By Comparison Method	0 to 300 mm	9.12 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial/Digital/Analog) L.C.: 0.01 mm	Using Slip Gauge Block Set Long Slip Gauge By Comparison Method	0 to 600 mm	13.9 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Scale & Tape Calibrator L.C.: 0.001 mm	Using Gauge Block Set Micrometer Setting standard By Comparison Method	0 to 1000 mm	13.0 µm
5	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Angular L.C. 1"	Using linear Graticule , glass angular graticule, measuring scale glass digital caliper by comparison method	up to 360 Degrees	9.62 sec. of arc

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6	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector Linear L.C.: 0.001 mm	Using linear Graticule , glass angular graticule, measuring scale glass digital caliper by comparison method	up to 200 mm	6.25 µm
7	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector magnification	Using linear Graticule , glass angular graticule, measuring scale glass digital caliper by comparison method	Up to 50 X	0.1 %
8	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Digital/Analog Pressure Gauge , Indicator, Pressure Transmitter, Pressure Switches	Using Digital Pressure Gauge By Comparison Method	0 to 160 bar	0.15 bar
9	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Digital/Analog Pressure Gauge , Indicator, Pressure Transmitter, Pressure Switches	Using Digital Pressure Gauge By Comparison Method	0 to 350 bar	0.17 bar
10	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Digital/Analog Pressure Gauge , Indicator, Pressure Transmitter, Pressure Switches	Using Digital Pressure Gauge By Comparison Method	0 to 700 bar	0.46 bar

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11	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Digital/Analog Pressure Gauge , Indicator, Pressure Transmitter, Pressure Switches	Using Digital Pressure Gauge By Comparison Method	0 to 20 bar	0.011 bar
12	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Pneumatic Digital/Analog Pressure Gauge , Indicator, Pressure Transmitter, Pressure Switches	Using Digital Pressure Gauge By Comparison Method	0 to 6 bar	0.08 bar

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