



National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**RELIANCE CALIBRATION LABORATORY**

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

SR.NO-21/7 ,GOKUL NAGAR, NARHE, DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA

in the field of

**CALIBRATION**

Certificate Number: CC-2876

Issue Date: 17/12/2022

Valid Until: 16/12/2024

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](http://www.nabl-india.org))

Name of Legal Identity : RELIANCE CALIBRATION LABORATORY

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE, DHAYARI-SINHAGAD ROAD, PUNE, 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 / Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
LOCATION 1-SR.NO-21/7 ,GOKUL NAGAR, NARHE, DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	"V" Block (Parallelism)	By Using standard cylindrical mandrill , Surface plate and Electro Micro Indicator by comparison method	0 to 150 mm	7.0 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	"V" Block (Squareness )	By Using standard cylindrical mandrill , Surface plate and Electro Micro Indicator by comparison method	0 to 150 mm	7.0 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	"V" Block (Symmetricity)	By Using standard cylindrical mandrill , Surface plate and Electro Micro Indicator by comparison method	0 to 150 mm	7.0 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit	By Using the Plain ring Gauge set by comparison method	-0.1 mm to +1.0 mm	3µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Template	By Using Video measuring machine by comparison method:	0° to 20 °	2.1min
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angular Glass Scale	By Using Video measuring machine by comparison method	0° to 360°	2 minutes of arc
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co-Axility )	By Using Test Mandrills & Plunger Dail by comparison method	0 to 1000 mm	4.04µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism of Axis of centre)	By Using Test Mandrills & Plunger Dail by comparison method	0 to 1000 mm	4.04 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Combination Set - Analog/Digital (L.C.:1 min)	By Using angle Gauge Block Set by comparison method	0 ° to 360 °	3min



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Combination Set - Analog/Digital (L.C.:1°)	By Using Angle Gauge Block Set by comparison method	0 ° to 180 °	35min
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore gauges - (Transmission Accuracy)	By Using Dial Calibration Tester With comparison method	0 to 2 mm	2.4µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator stand (Flatness)	By using Electro micro indicator with comparison method	Up to 200X200 mm	4µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge Caliper (L.C.:0.01 mm)	By Using Depth checker, Caliper Checker, Long Gauge block set by using comparison method	0 to 600 mm	12µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm)	By Using Depth Checker with comparison method	0 to 300 mm	7.10µm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge	By Using Gauge block set and Electronic micro indicator with comparison method	200 mm to 300 mm	3.4µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge	By Using Gauge block set and Electronic Micro indicator with comparison method	5 mm to 200 mm	2.4µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.01 mm)	By Using Gauge blocks with comparison method	0 to 50 mm	11.0µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.:0.001 mm)	By Using gauge block with comparison method	0 to 2 mm	4µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital External Micrometer (L.C.:0.001 mm)	By Using Long Gauge Block and Gauge Block Set By Comparison method	300 mm to 1000 mm	12.0µm



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic level (L.C.:0.001 mm/m)	By Using Tilting Device with laser interferometer by comparison method	+/-2.0 mm/m	3.5µm/m
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic level (L.C.:0.001 mm/m)	By Using Tilting Device with Laser interferometer by comparison method	+/-5.0 mm/m	4.4µm/m
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.0001 mm)	By using Gauge block set with comparison method	0 to 25 mm	1.2µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	By Using Block and long Gauge block set with comparison method	0 to 100 mm	2.0µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	By Using gauge block and long Gauge block set by comparison method	100 mm to 200 mm	3.60µm



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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	By using gauge block & long gauge block by comparison method	200 mm to 300 mm	3.8µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	By using gauge block & Long gauge block set with comparison method	300 mm to 400 mm	4.5µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	By using gauge block & Long gauge block set with comparison method	400 mm to 600 mm	7µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	By using Gauge Block & Long Gauge Block set with comparison method	600 mm to 1000 mm	12µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge/Thickness Foils	Using Comparator stand with Electronic Micro Indicator with comparison method	Up to 2 mm	1.5µm



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30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.:0.02 mm)	By using Caliper Checker ,Long gauge block set,Surface Plate with comparison method	0 to 1500 mm	23µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.:0.02 mm)	By using Caliper Checker,Long gauge block set & Surface Plate with comparison method with comparison method	0 to 600 mm	17.5µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Digital/Dial (L.C.:0.01 mm)	By Using Caliper Checker, Long gauge block set, Surface plate with comparison method	0 to 1000 mm	25µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Digital/Dial (L.C.:0.01 mm)	By Using Caliper Checker,Surface Plate with Comparison method	0 to 300 mm	14µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Digital/Dial (L.C.:0.01 mm)	By Using Caliper Checker/Long gauge Block set ,Surface Plate with comparison method	0 to 600 mm	19µm





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35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Caliper (L.C.:0.0025 mm)	By Using Gauge Block set and Accessories by comparison method	Upto 100 mm mm	4.0µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Caliper (L.C.:0.01 mm)	Using Gauge block & Accessories by comparison method	Upto 100 mm mm	11µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer Jaw Type (L.C.: 0.01 mm)	Using Gauge block set ,Accessories & Single Axis measuring machine (ULM) By comparison method	5 mm to 30 mm	3.5µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer Stick Type (L.C.:0.01 mm)	Using Gauge block set ,Accessories & Single Axis measuring machine (ULM) By comparison method	50 mm to 1500 mm	9.0µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer Stick Type (L.C.:0.01 mm)	Using Gauge block set ,Accessories & Single Axis measuring machine (ULM) By comparison method	50 mm to 300 mm	4.5µm



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40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Indicator (L.C.:0.001 mm)	By Using Automatic Dial Calibration Tester with comparison method	0 to 1 mm	1.6µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Indicator (L.C.:0.01 mm)	By Using Automatic dial calibration Tester with comparison method	0 to 1 mm	3.5µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Linear Glass Scale	By Using Laser Interferometer by Comparison method	0 to 200 mm	5.9µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.:0.5 mm)	By using Tape & Scale Calibration machine with comparison method	Up to 1 m	125µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.:1 mm)	By using measuring Tape & Scale Calibration machine with comparison method	0 to 50 m	125µm



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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standards	Using ULM,Long gauge block set & Electro Micro Indicator with comparison method	175 mm to 600 mm	10.4µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standards	Using ULM,Long gauge block set & Electro Micro Indicator with comparison method	25 mm to 175 mm	2.6µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standards	Using ULM,Long gauge block set & Electro Micro Indicator with comparison method	600 mm to 1000 mm	14.0µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	OD Master/Cylindrical setting Standard	By Using comparator stand with Electro Micro Indicator with comparison method	0 to 100 mm	1.5µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	OD Master/Cylindrical setting Standard	By Using Comparator Electro Micro Indicator /Gauge block set &ULM with comparison method	100 mm to 175 mm	2.6µm



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50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	OD Master/Cylindrical setting Standard	Using Comparator Electro micro indicator / Gauge block Set & ULM with comparison method	175 mm to 300 mm	4.0µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Caliper (L.C.:0.001 mm)	By Using Gauge Block with comparison method	0 to 2 mm	4µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Caliper (L.C.:0.01 mm)	By Using Gauge Block by comparison method	0 to 50 mm	8µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pin Gauge	By Using comparator stand with Electro Micro Indicator with comparison method	0 to 20 mm	1.5µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.01 mm)	By Using Gauge blocks with comparison method	0 to 50 mm	8µm



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55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.1 mm)	By Using Gauge Block set with comparison method	0 to 50 mm	65.4µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	By Using comparator stand with Electro Micro Indicator/Gauge block set with comparison method	0 to 100 mm	1.5µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	By Using Comparator Electro Micro Indicator /Gauge block set & ULM with comparison method	100 mm to 175 mm	2.6µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Comparator Electro micro indicator / Gauge block Set & ULM with comparison method	175 mm to 375 mm	4µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	By Using single axis measuring machine (ULM) & Master ring with comparison method	2 mm to 200 mm	2µm



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60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	By Using Single axis measuring machine (ULM) & Master ring with comparison method	200 mm to 370 mm	3µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Plug Gauge	By using single axis measuring machine (ULM) , Gauge Block set ,Thread Measuring Wires with comparison method	2 mm to 200 mm	3.5µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Ring Gauge	By using single axis measuring machine(ULM), Gauge block set, Thread Measuring Wires with comparison method	5 mm to 200 mm	4.1µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C.:0.100mm)	By using comp.stand & gauge block set with comparison method	0 to 50 mm	65.4µm



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64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Indicator (L.C.:0.001 mm)	By Using Automatic Dial Calibration tester with comparison method	0 to 25 mm	1.6µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Indicator (L.C.:0.001 mm)	By Using Gauge block and comparator stand with comparison method	0 to 50 mm	2.3µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	By Using VMM machine with comparison method	Upto 25 mm	13.0µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Right Angle /Angle Plate	By using Electronic probe with Square master by comparison method	Up to 300 mm	9µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar & Sine Center (Angular Accuracies)	By Using Angle Gauge block, gauge block & lever type Dial gauges with comparison method	Up to 300 °	14sec of arc



# National Accreditation Board for Testing and Calibration Laboratories

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<b>Laboratory Name :</b>	RELIANCE CALIBRATION LABORATORY, SR.NO-21/7 ,GOKUL NAGAR, NARHE, DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA		
<b>Accreditation Standard</b>	ISO/IEC 17025:2017		
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<b>Validity</b>	17/12/2022 to 16/12/2024	<b>Last Amended on</b>	24/05/2023

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)(±)
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge	By Using gauge block Set with comparison method	0.5 mm to 100 mm	2.0µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge	By Using Gauge Blocks & single axis measuring machine (ULM) with comparison method	100 mm to 200 mm	3.0µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge	by Using Gauge Block & single axis measuring machine (ULM) with comparison method	200 mm to 350 mm	3.2µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge	By Using Long Gauge block & M87 Gauge block set	350 mm to 450 mm	3.3µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit level (L.C.:0.01 mm/m)	by Using Electronic Level with comparison method	+/-0.200 mm/m	0.01mm/m





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74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug gauge	By using single axis measuring machine (ULM) / Pin Gauge set with comparison method	Upto 150 DOP mm	2.3µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring gauge	By using Gauge Block Set & Pin Gauge set with comparison method	Upto 150 DIP mm	2.30µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	By Using Electronic level with comparison method	3000 mm to 3000 mm	1.27xsqrt((L+W)/150) mm/m Where L & W in mm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Diameter)	By Using Single Axis Measuring Machine (ULM), Floating Carriage Diameter Measuring Machine & Thread measuring wires with Comparison method	7 mm to 101.60 mm	4.0µm



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78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Diameter)	By using Single Axis Measuring Machine (ULM), Master setting ring & T stylus anvils with Comparison method	7 mm to 101.60 mm	4µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandril (Run out)	By Using Bench Center / Electronic Probe with comparison method	0 to 300 mm	4.0µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrill (Diameter)	Using Electro Micro Indicator With Comp Stand by comparison method	0 to 300 mm	1.51 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wires	By Using Length Measuring Machine by comparison method:	0.17 mm to 6.35 mm	0.5µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angular)	By using Video measuring machine with comparison method	55° and 60°	6.0min



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83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Linear)	By using Video measuring machine with comparison method	0.3 mm to 6 mm	10.0µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter)	By Using Single Axis Measuring Machine (ULM),Floating Carriage Diameter Measuring Machine & Thread measuring Wires with comparison method	0 to 100 mm	4.0µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter)	By using Single Axis Measuring Machine (ULM) and thread measuring wires with comparison method	100 mm to 200 mm	5µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	By using Single Axis measuring machine (ULM), Master setting ring with comparison method	100 mm to 300 mm	5µm



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87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	By using Single Axis measuring machine (ULM) , Master setting ring & T stylus anvils with comparison method	3 mm to 100 mm	3.6µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Micrometer (L.C.:0.001 mm)	By Using Ring Gauges with Comparison method	3 mm to 300 mm	3.6µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.:0.001 mm)	By using Caliper Checker by comparison method:	0 to 150 mm	7.9µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.: 0.01 mm)	By using Caliper checker by comparison method:	0 to 600 mm	14µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.: 0.02 mm)	By Using long Gauge block set by comparison method:	0 to 3000 mm	25µm



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92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.:0.01 mm)	By Using long Gauge block set by comparison method	0 to 2000 mm	22µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.:0.01 mm)	By using Caliper checker and long Gauge block set with comparison method as per By using gauge block & long Gauge block set with comparison method	0 to 1000 mm	19µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper - Dial/Analog (L.C.:0.02 mm)	By using Gauge block & long Gauge block set with comparison method as per By using gauge block & long Gauge block set with comparison method	0 to 1000 mm	26µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper - Dial/Analog (L.C.:0.02 mm)	By using gauge block & long Gauge block set with comparison method	0 to 2000 mm	30µm



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96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper - Dial/Analog (L.C.:0.02 mm)	By using Caliper checker by comparison method:	0 to 600 mm	17µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	By Using Electro micro Stand,ULM /Long Gauge block set with comparison method	0 to 175 mm	2.6µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	By Using Single axis measuring machine (ULM) /Long Gauge block set&Micro Indicator with comparison method	175 mm to 375 mm	3.5µm
99	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker/ Check Master	By using Laser Interferometer along with 2D Height Gauge	0 to 1000 mm	3.0µm
100	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker/ Check Master /Depth Micro-checker	By using Laser Interferometer along with 2D Height Gauge	0 to 670 mm	2.5µm
101	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Machine XAxis (Performance Accuracy)	By Using the Contour Master with comparison method	0 to 200 mm	3.82µm



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102	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Machine ZAxis (capable to travel 200 mm X axis)	By Using Contour Master with slip gauge comparison method	Upto +/- 12.5 mm	3.82µm
103	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (L.C.:0.0001 mm)	By Using Electro micro indicator with comparison method	0 to 50 mm	1.3µm
104	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Squareness (L..C.:0.0001 mm)	By Using granite L square ,Caliper Checker & Long Gauge Block set with comparison method	0 to 600 mm	6.35µm
105	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L..C.:0.0001 mm)	By Using Caliper Checker & Long gauge Block set by comparison method	0 to 1000 mm	12µm
106	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L.C-0.0001 mm )	By Using Caliper Checker & Long gauge Block set by comparison method	0 to 600 mm	8.3 µm
107	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe (LVDT) (L..C.:0.0001 mm)	By Using Gauge Blocks by comparison method	0 to 25 mm	1.0µm



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108	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine (L.C.: 0.0001 mm & coarser), Traverse Range: 25 mm	Using Gauge Block & Cylindrical Setting Master by comparison method	0 to 100 mm	2.0µm
109	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	By Using Gauge block Calibrator & K Grade Gauge block set with comparison method	10 mm to 25 mm	0.14µm
110	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	By Using Gauge block Calibrator & K Grade Gauge block set with comparison method	25 mm to 50 mm	0.19µm
111	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	By Using Gauge block Calibrator & K Grade Gauge block set with comparison method	50 mm to 100 mm	0.33µm
112	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block	By Using Gauge block Calibrator & K Grade Gauge block set with comparison method	Up to 10 mm	0.11µm
113	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Block/Master	Using Micro indicator/ULM ,Long Gauge block set by comparison method	0 to 175 mm	2.6µm





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114	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Block/Master	Using Micro indicator/ULM ,Long Gauge block set by comparison method	175 mm to 375 mm	3.5µm
115	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine - Vertical & Horizontal Axis (L.C.: 0.00001 mm & coarser)	By Using Laser Interferometer by Comparison method	0 to 1000 mm	1.0µm
116	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine - Vertical & Horizontal Axis (L.C.: 0.00001 mm & coarser)	By Using Laser Interferometer by Comparison method	0 to 600 mm	0.61µm
117	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine - Vertical & Horizontal Axis (L.C.: 0.00001 mm & coarser)	By Using Laser Interferometer by Comparison method	0 to 100 mm	0.19µm
118	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	By Using Measuring glass scale, Digital Caliper by comparison method	10x to 50x	1.6%
119	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine Linear - (L.C.: 0.0001 mm)	By Using Measuring glass scale by comparison method	200 X 150 mm	8.0µm



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120	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector /Video Measuring Machine Angular Measurement(L.C.:1 sec)	By Using Angle gauge by comparison method	0° to 360 °	5min of arc
121	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Specimen Ra value	By Using the Surface roughness machine with comparison method	Upto 6.5 μm	10.4%
122	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester Ra value (Portable & Stand alone)	By Using the Surface roughness masters(3 Nos) with comparison method	Ra 0.3 μm to Ra 6.37 μm	8.34%
123	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibration Unit (L.C.: 0.001 mm)	Using Laser Interferometer by Comparison Method	0 to 1000 mm	1.6μm
124	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Thread Measuring Machine (L.C. : 0.0001 mm)	By Using, OD master , Plain Ring Gauge,Thread ring gauge and Thread Plug gauge by comparison method	3 mm to 60 mm	1.6μm
125	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	By Using Hardness Block by Comparison method IS: 1500 Part-2 -2021 Rev 5.	HBW 10/3000	1.6% rdg



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126	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	By Using the Hardness Block by comparison method IS: 1500 Part-2 -2021 Rev 5	HBW 2.5/187.5	1.8% rdg
127	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	By Using the Hardness Block by comparison method IS 1586 (Part 2) : 2018 Rev 5	HRA	2.0HRA
128	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	By Using the Hardness Block by comparison method IS 1586 (Part 2) : 2018 Rev 5	HRBW	1.45HRBW
129	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	By Using the Hardness Block by comparison method IS 1586 (Part 2) : 2018 Rev 5	HRC	1.5HRC
130	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	By Using Hardness blocks by Comparison method IS: 1501(Part 2):2020 Rev 5	HV10	2.5% rdg
131	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	By Using Hardness blocks by Comparison method IS: 1501(Part 2):2020 Rev 5	HV30	2.5% rdg



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132	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Force Gauge / Push Pull Gauge (In Push and Pull Direction)	By Using the dead weights with comparison method	50 N to 1000 N	3.6N
133	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauges (Analog / Digital)	Using Digital Pressure gauge with oil based comparator pump based on DKD-R6-1	40 bar to 400 bar	1.59bar
134	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauges (Analog / Digital)	Using Digital Pressure gauge with oil based comparator pump based on DKD-R6-1	0 to 40 bar	0.13bar
135	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I & II & A to F Classes)	Using Torque Transducers with Indicator by Comparison Method as per ISO 16906:2018	50 Nm to 500 Nm	3.0% rdg
136	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I & II & A to F Classes)	Using Torque Transducers with Indicator by Comparison Method as per ISO 16906:2018	5 Nm to 50 Nm	3.0% rdg



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137	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I & II & A to F Classes)	Using Torque Transducers with Indicator by Comparison Method as per ISO 16906:2018	0.5 Nm to 5 Nm	2.9% rdg



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LOCATION 1-SR.NO-21/7 ,GOKUL NAGAR, NARHE, DHAYARI-SINHAGAD ROAD, PUNE, MAHARASHTRA, INDIA Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit	By Using the Plain ring Gauge set by comparison method	-0.1 mm to +1.0 mm	3µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co-Axility )	By Using Test Mandrills & Plunger Dail by comparison method	0 to 1000 mm	4.04µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.:0.02 mm)	By using Caliper Checker ,Long gauge block set,Surface Plate with comparison method	0 to 1500 mm	23µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.:0.02 mm)	By using Caliper Checker,Long gauge block set & Surface Plate with comparison method with comparison method	0 to 600 mm	17.5µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Digital/Dial (L.C.:0.01 mm)	By Using Caliper Checker, Long gauge block set, Surface plate with comparison method	0 to 1000 mm	25µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Digital/Dial (L.C.:0.01 mm)	By Using Caliper Checker/Long gauge Block set ,Surface Plate with comparison method	0 to 600 mm	19µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	By Using Electronic level with comparison method	3000 mm to 3000 mm	$1.27 \times \sqrt{(L+W)/150}$ mm/m Where L & W in mm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.: 0.02 mm)	By Using long Gauge block set by comparison method:	0 to 3000 mm	25µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.:0.01 mm)	By Using long Gauge block set by comparison method	0 to 2000 mm	22µm



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10	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Machine XAxis (Performance Accuracy)	By Using the Contour Master with comparison method	0 to 200 mm	3.82µm
11	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Machine ZAxis (capable to travel 200 mm X axis)	By Using Contour Master with slip gauge comparison method	Upto +/- 12.5 mm	3.82µm
12	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Squareness (L.C.:0.0001 mm)	By Using granite L square ,Caliper Checker & Long Gauge Block set with comparison method	0 to 600 mm	6.35µm
13	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L.C.:0.0001 mm)	By Using Caliper Checker & Long gauge Block set by comparison method	0 to 1000 mm	12µm
14	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L.C-0.0001 mm )	By Using Caliper Checker & Long gauge Block set by comparison method	0 to 600 mm	8.3 µm
15	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine - Vertical & Horizontal Axis (L.C.: 0.00001 mm & coarser)	By Using Laser Interferometer by Comparison method	0 to 1000 mm	1.0µm





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16	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine - Vertical & Horizontal Axis (L.C.: 0.00001 mm & coarser)	By Using Laser Interferometer by Comparison method	0 to 600 mm	0.61µm
17	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine - Vertical & Horizontal Axis (L.C.: 0.00001 mm & coarser)	By Using Laser Interferometer by Comparison method	0 to 100 mm	0.19µm
18	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	By Using Measuring glass scale, Digital Caliper by comparison method	10x to 50x	1.6%
19	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine Linear - (L.C.: 0.0001 mm)	By Using Measuring glass scale by comparison method	200 X 150 mm	8.0µm
20	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector /Video Measuring Machine Angular Measurement(L.C.:1 sec)	By Using Angle gauge by comparison method	0° to 360 °	5min of arc
21	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester Ra value (Portable & Stand alone)	By Using the Surface roughness masters(3 Nos) with comparison method	Ra 0.3 µm to Ra 6.37 µm	8.34%



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22	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibration Unit (L.C.: 0.001 mm)	Using Laser Interferometer by Comparison Method	0 to 1000 mm	1.6µm
23	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Thread Measuring Machine (L.C. : 0.0001 mm)	By Using, OD master , Plain Ring Gauge, Thread ring gauge and Thread Plug gauge by comparison method	3 mm to 60 mm	1.6µm
24	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	By Using Hardness Block by Comparison method IS: 1500 Part-2 -2021 Rev 5.	HBW 10/3000	1.6% rdg
25	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Tester	By Using the Hardness Block by comparison method IS: 1500 Part-2 -2021 Rev 5	HBW 2.5/187.5	1.8% rdg
26	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	By Using the Hardness Block by comparison method IS 1586 (Part 2) : 2018 Rev 5	HRA	2.0HRA
27	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	By Using the Hardness Block by comparison method IS 1586 (Part 2) : 2018 Rev 5	HRBW	1.45HRBW



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28	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	By Using the Hardness Block by comparison method IS 1586 (Part 2) : 2018 Rev 5	HRC	1.5HRC
29	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	By Using Hardness blocks by Comparison method IS: 1501(Part 2):2020 Rev 5	HV10	2.5% rdg
30	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Tester	By Using Hardness blocks by Comparison method IS: 1501(Part 2):2020 Rev 5	HV30	2.5% rdg
31	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauges (Analog / Digital)	Using Digital Pressure gauge with oil based comparator pump based on DKD-R6-1	40 bar to 400 bar	1.59bar
32	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauges (Analog / Digital)	Using Digital Pressure gauge with oil based comparator pump based on DKD-R6-1	0 to 40 bar	0.13bar



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1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 mA to 100 mA	0.20 % to 0.17%
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mA to 10 A	0.17% to 0.36%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 mV	4.7 % to 0.20 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mV to 750 V	0.20 % to 0.05 %



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5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	By Using 5 1/2 Multifunction calibrator With Current Coil By Direct Method	10 A to 1000 A	0.87 % to 1.41 %
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using 5 1/2 Multifunction Calibrator by Direct Method	100 mA to 10 A	0.24% to 0.36%
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using 5 1/2 Multifunction Calibrator by Direct Method	0.2 mA to 100 mA	0.36 % to 0.24 %
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using 5 1/2 Multifunction Calibrator by Direct Method	5 mV to 1000 V	0.68 % to 0.20 %
9	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6 1/2 Digital Multimeter by Direct Method	1 mA to 100 mA	0.09% to 0.08%
10	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6 1/2 Digital Multimeter by Direct Method	100 mA to 10 A	0.08% to 0.3%



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11	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digital Multimeter by Direct Method	1 Ohm to 100 Kohm	0.38 % to 0.02 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digital Multimeter by Direct Method	10 Mohm to 100 Mohm	0.11% to 0.94%
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digital Multimeter by Direct Method	100 Kohm to 10 Mohm	0.02% to 0.11%
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 mV	0.44 % to 0.41 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 mV to 1000 V	0.041 % to 0.05 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By Using 5½ Multifunction Calibrator By Direct Method	0.2 mA to 10 A	0.27 % to 0.14 %



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17	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By Using 5½ Multifunction Calibrator with Current coil By Direct Method	10 A to 1000 A	0.89 % to 1.0 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	By Using Decade Resistance Box By Direct Method	1 Ohm to 100 Kohm	0.6 % to 0.12 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	By Using Decade Resistance Box By Direct Method (upto 1000V)	100 Kohm to 100 Mohm	0.12 % to 1.05 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	By Using Decade Resistance Box By Direct Method (upto 1000V)	100 Mohm to 1000 Mohm	1.05 % to 1.37 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	By Using 5 ½ Multifunction Calibrator By Direct Method	1 mV to 1000 V	1.31 % to 0.14 %
22	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Recorder/ Controller) J-Type	By Using Temperature Calibrator By Direct Method	100 °C to 750 °C	1.36°C



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23	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Recorder/ Controller) K-Type	Using Temperature Calibrator By Direct Method	0 to 1200 °C	1.95°C
24	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Recorder/ Controller) R-Type	By Using Temperature Calibrator By Direct Method	200 °C to 1500 °C	3.24°C
25	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Recorder/ Controller) RTD (Pt-100)	By Using Temperature Calibrator By Direct Method	-100 °C to 600 °C	1.19°C
26	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Recorder/ Controller) S-Type	By Using Temperature Calibrator By Direct Method	150 °C to 1500 °C	3.25°C
27	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Stop Watch / Digital Timer	By Using Digital Time Calibrator By Comparison Method,	3 s to 3600 s	0.33 s to 2.74 s
28	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5½ Multifunction Calibrator by Direct Method	45 Hz to 1000 Hz	0.29 % to 0.06 %





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29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector /Combination set (Analog/Digital) L.C-1 min	By Using Angle Gauge block set with comparison method	0 to 360 °	3.0min
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Transmission Accuracy)	By Using Electronic micro indicator & Dial Calibration Tester with comparison method	0 to 1 mm	2.5µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C.-0.0001 mm	By Using thickness foils with comparison method	Upto 1 mm	3µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C.-0.001 mm	By Using Thickness foils with comparison method	Upto 2 mm	12.0µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper L.C-0.01 mm	By Using Depth Gauge Checker by comparison method	0 to 300 mm	15µm



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34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C-0.001 mm	By Using Depth Gauge Checker & Surface Plate with comparison method	0 to 300 mm	7.4µm
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge	Using Gauge Block Set & Electro Micro Indicator with Comparison method	0.5 mm to 200 mm	2.4µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge/Pistol Caliper/Outside Caliper L.C-0.01 mm	By Using Gauge blocks with comparison method	0 to 50 mm	10.7µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C-0.001 mm	By Using M10 Gauge Block & M88 Gauge Block Set with comparison method	0 to 200 mm	2.5µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge/Thickness Foils	By Using Electromicro Indicator With Comparator stand with comparison method	Upto 2 mm	1.5µm



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39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height blocks, Micrometer Setting Standards	By Using Gauge block set, Electro Micro Indicator with comparator stand & Surface Plate with comparison method	0 to 200 mm	3.5µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital/Dial/Analog) L.C-0.01 mm	By Using Caliper Checker & Surface Plate with comparison method	0 to 600 mm	16µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Calipers L.C-0.01 mm	By Using Gauge Block & Accessories with comparison method	5 mm to 100 (Or 2 mm Dial Tra mm	11.0µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Indicator L.C-0.001 mm	By Using Electronic micro indicator & Dial Calibration Tester with Comparison method	0 to 1 mm	1.9µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	OD Master/Cylindrical setting standard	Using Comparator stand with Electro Micro Indicator with comparator stand & gauge block set with comparison method	0.5 mm to 100 mm	1.9µm



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44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	OD Master/Cylindrical setting standard	By Using Electro Micro Indicator with comparator stand & Gauge Block set with Comparison method	100 mm to 175 mm	2.6µm
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pin Gauge	Using Comparator stand with Electro Micro Indicator with comparator stand & gauge block set with comparison method	0.5 mm to 20 mm	1.9µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Comparator stand with Electro Micro Indicator with comparator stand & gauge block set with comparison method	0.5 mm to 100 mm	1.9µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	By Using Electro Micro Indicator with comparator stand & Gauge Block set with Comparison method	100 mm to 175 mm	2.6µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Indicator L.C-0.001 mm	By Using Electronic Dial Calibration Tester with comparison method	0 to 10 mm	1.5µm



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49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	By Using Gauge Block Set with comparison method	0.5 mm to 200 mm	3.0µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Only Effective Diameter)	Using Floating carriage Diameter measuring machine & Thread measuring wires with comparison method	1 mm to 100 mm	4.0µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (Digital/Dial/Analog) L.C-0.01 mm	By Using Caliper Checker with comparison method	0 to 600 mm	15µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	By Using Electro Micro Indicator with comparator stand with comparison method	0 to 175 mm	2.6µm
53	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital Thermo Hygrometer, Humidity Indicator with Sensor, Humidity Indicator, Data Logger @ 25 ± 4 °C	Using Standard Temperature & Humidity Indicator with sensor and humidity Chamber / Generator By Comparison Method	20 % to 95 %	2.81%RH



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54	THERMAL-SPECIFIC HEAT & HUMIDITY	Digital Thermo Hygrometer, Humidity Indicator with Sensor,Humidity Indicator,Data Logger @ 50% RH	Using Standard Temperature & Humidity Indicator with sensor and humidity Chamber / Generator By Comparison Method	5 °C to 50 °C	0.65°C
55	THERMAL-TEMPERATURE	RTDs/Thermocouple s with or without Indicator, Digital Thermometers	By Using RTD (Pt-100) Sensor & 6½ Digital Multimeter using Dry well Baths By Comparison Method	> 50 °C to 300 °C	0.35°C
56	THERMAL-TEMPERATURE	Thermocouple s with or without Indicator, Digital Thermometers	By Using S-type Thermocouple Sensor & 6½ Digital Multimeter using Dry well Baths By Comparison Method	> 300 °C to 650 °C	0.81°C
57	THERMAL-TEMPERATURE	Thermocouples with or without Indicator, Digital Thermometers	By Using S-type Thermocouple Sensor & 6½ Digital Multimeter using Dry well Baths By Comparison Method	> 650 °C to 1200 °C	3.1°C



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LOCATION 2 - SHOP NO-07 , BURHANI COMPLEX,GAT NO 214/1, PUNE-NASHIK HIGHWAY,NANEKARWADI,CHAKAN, PUNE, MAHARASHTRA, INDIA Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 mA to 100 mA	0.20 % to 0.17%
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mA to 10 A	0.17% to 0.36%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 mV	4.7 % to 0.20 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mV to 750 V	0.20 % to 0.05 %



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5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	By Using 5 1/2 Multifunction calibrator With Current Coil By Direct Method	10 A to 1000 A	0.87 % to 1.41 %
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50Hz	Using 5 1/2 Multifunction Calibrator by Direct Method	100 mA to 10 A	0.24% to 0.36%
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @50 Hz	Using 5 1/2 Multifunction Calibrator by Direct Method	0.2 mA to 100 mA	0.36 % to 0.24 %
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50Hz	Using 5 1/2 Multifunction Calibrator by Direct Method	5 mV to 1000 V	0.68 % to 0.20 %
9	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6 1/2 Digital Multimeter by Direct Method	1 mA to 100 mA	0.09% to 0.08%
10	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6 1/2 Digital Multimeter by Direct Method	100 mA to 10 A	0.08% to 0.3%





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11	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digital Multimeter by Direct Method	1 Ohm to 100 Kohm	0.38 % to 0.02 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digital Multimeter by Direct Method	10 Mohm to 100 Mohm	0.11% to 0.94%
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6½ Digital Multimeter by Direct Method	100 Kohm to 10 Mohm	0.02% to 0.11%
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 mV	0.44 % to 0.41 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 mV to 1000 V	0.041 % to 0.05 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By Using 5½ Multifunction Calibrator By Direct Method	0.2 mA to 10 A	0.27 % to 0.14 %



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17	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	By Using 5½ Multifunction Calibrator with Current coil By Direct Method	10 A to 1000 A	0.89 % to 1.0 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	By Using Decade Resistance Box By Direct Method	1 Ohm to 100 Kohm	0.6 % to 0.12 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	By Using Decade Resistance Box By Direct Method (upto 1000V)	100 Kohm to 100 Mohm	0.12 % to 1.05 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	By Using Decade Resistance Box By Direct Method (upto 1000V)	100 Mohm to 1000 Mohm	1.05 % to 1.37 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	By Using 5 ½ Multifunction Calibrator By Direct Method	1 mV to 1000 V	1.31 % to 0.14 %
22	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Recorder/ Controller) J-Type	By Using Temperature Calibrator By Direct Method	100 °C to 750 °C	1.36°C



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23	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Recorder/ Controller) K-Type	Using Temperature Calibrator By Direct Method	0 to 1200 °C	1.95°C
24	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Recorder/ Controller) R-Type	By Using Temperature Calibrator By Direct Method	200 °C to 1500 °C	3.24°C
25	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Recorder/ Controller) RTD (Pt-100)	By Using Temperature Calibrator By Direct Method	-100 °C to 600 °C	1.19°C
26	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Temperature Simulation (Indicator/Recorder/ Controller) S-Type	By Using Temperature Calibrator By Direct Method	150 °C to 1500 °C	3.25°C
27	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Digital Stop Watch / Digital Timer	By Using Digital Time Calibrator By Comparison Method,	3 s to 3600 s	0.33 s to 2.74 s
28	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5½ Multifunction Calibrator by Direct Method	45 Hz to 1000 Hz	0.29 % to 0.06 %



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29	THERMAL-TEMPERATURE	RTDs/Thermocouple s with or without Indicator, Digital Thermometers	By Using RTD (Pt-100) Sensor & 6½ Digital Multimeter using Dry well Baths By Comparison Method	> 50 °C to 300 °C	0.35°C
30	THERMAL-TEMPERATURE	Thermocouple s with or without Indicator, Digital Thermometers	By Using S-type Thermocouple Sensor & 6½ Digital Multimeter using Dry well Baths By Comparison Method	> 300 °C to 650 °C	0.81°C
31	THERMAL-TEMPERATURE	Thermocouples with or without Indicator, Digital Thermometers	By Using S-type Thermocouple Sensor & 6½ Digital Multimeter using Dry well Baths By Comparison Method	> 650 °C to 1200 °C	3.1°C

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