National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

QUALITY SOLUTIONS INDUSTRIES PRIVATE LIMITED

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

PLOT NO: X-4, BPTP, SECTOR-76, FARIDABAD, HARYANA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2717

Issue Date: 09/07/2024 **Valid Until:** 08/07/2026

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 thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: QUALITY SOLUTIONS INDUSTRIES PRIVATE LIMITED

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	QUALITY SOLUTIONS INDUSTRIES PRIVATE LIMITED, PLOT NO: X-4, BPTP, SECTOR-76, FARIDABAD, HARYANA, 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)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High voltage probe with DMM by Direct Method	1 kV to 28 kV	5.80 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Q meter by Direct Method	1 nF to 1000 nF	1.60 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using LCR -Q Meter by Direct Method	1 mH to 1 H	1.22 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ digit Multi function calibrator by Direct Method	1 A to 10 A	0.62 % to 0.22 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ digit Multifunction calibrator by Direct Method	2 mA to 2000 mA	0.27 % to 0.22 %

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6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ digit Multifunction calibrator by Direct Method	200 µA to 2 mA	0.45 % to 0.27 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	Using 5 ½ digit Multi function calibrator with current coil by Direct Method	100 A to 1000 A	1.90 % to 1 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	Using 5½ digit Multi function calibrator with current coil by Direct Method	20 A to 100 A	1.90 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ digit Multi function calibrator by Direct Method	10 mV to 200 mV	0.40 % to 0.26 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ digit Multi function calibrator by Direct Method	100 V to 1000 V	0.42 % to 0.20 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ digit Multi function calibrator by Direct Method	200 mV to 200 V	0.26 % to 0.42 %

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12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Conductivity Meter	Using Conductivity simulator by simulation method	1 µS/cm to 1000 µS/cm (1.000028 Mohm to 1.00010 Kohm)	1.19 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	PH Meter	Using pH simulator by simulation method	0 pH to 12 pH (414.12 mV to (-) 414.12 mV)	0.09 pH
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High voltage probe with DMM by Direct Method	1 kV to 10 kV	4.43 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 ½ digit DMM by Direct Method	1 ohm to 10 ohm	0.36 % to 0.18 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 ½ digit DMM by Direct method	10 ohm to 100 ohm	0.18 % to 0.05 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 ½ digit DMM by Direct method	100 kohm to 2 Mohm	0.05 % to 0.06 %

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18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 ½ digit DMM by Direct method	100 ohm to 100 kohm	0.05 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6 ½ digit DMM by Direct method	2 Mohm to 200 Mohm	0.06 % to 1.35 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Capacitance @ 1 kHz	Using Std. capacitance box by Direct Method	1 nF to 1 µF	3.50 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ digit Multi function calibrator by Direct Method	1 A to 10 A	0.26 % to 0.50 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ digit Multi function calibrator by Direct Method	2 mA to 2000 mA	0.20 % to 0.40 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ digit Multi function calibrator by Direct Method	200 µA to 2 mA	0.38 % to 0.20 %

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24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (at 1000 V)	Using Megaohm Box By Direct Method	2 Gohm	7.74 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (at 1000 V)	Using Megaohm Box by Direct Method	20 Gohm	7.74 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (at 1000 V)	Using Stdandard Megaohm Box by Direct Method	200 Mohm	4.27 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4 Wire/ 2 Wire)	Using Decade Resistance Box, Megohm Box by Direct Method	1 kohm to 200 Mohm	4.27 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(4 Wire/ 2 Wire)	Using Std. Resistance Box By Direct Method	1 mohm to 1 kohm	3.60 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ digit Multifunction calibrator , Direct Method	1 mV to 200 mV	1.90 % to 0.14 %

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30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ digit Multi function calibrator , Direct Method	200 mV to 200 V	0.14 % to 0.18 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ digit Multifunction calibrator by Direct Method	200 V to 1000 V	0.18 % to 0.15 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC- High Current	Using 5 ½ digit Multi function calibrator with current coil by Direct Method	100 A to 1000 A	1.42 % to 1 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC- High Current	Using 5 ½ digit Multi function calibrator with current coil by Direct Method	20 A to 100 A	1.91 % to 1.42 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Inductance @ 1 kHz	Using Std. Inductance decade box By Direct Method	1 mH to 1 H	3.52 %
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using Process calibrator by direct method	(-) 200 °C to 500 °C	1.50 °C

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36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Process calibrator by Direct method	(-) 200 °C to 1200 °C	1.50 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Process calibrator by Direct method	200 °C to 1600 °C	1.86 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)Type	Using Process calibratior by Direct method	(-) 200 °C to 795 °C	1.50 °C
39	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ digit DMM by Direct Method	50 Hz to 1 MHz	0.12 %
40	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time interval calibrator by Comparison Method	1 s to 80000 s	4.3 % to 0.03 %

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41	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate: Rotameter , Air Flow meter , Flow Calibrator , Gas Flow meter , Sampler . PM10 & PM2.5 , Flow measuring Equipment's	Using Laminar Gas Flow Calibrator by Comparison method	1 slpm to 100 slpm	2.96 %rdg
42	MECHANICAL-ACCELERATION AND SPEED	RPM meter of Centrifuge, Stroboscope, RPM meter of Vibrating machine, RPM meter of Shaker, RPM meter of Btumam Extracter	Using Digital Tachometer by Comparison method	>100 rpm to 1000 rpm	1 % of reading
43	MECHANICAL-ACCELERATION AND SPEED	RPM meter of Centrifuge, Stroboscope, RPM meter of Vibrating machine, RPM meter of Shaker, RPM meter of Btumam Extracter	Using Digital Tachometer by Comparison method	>1000 rpm to 10000 rpm	1.6 % of reading

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44	MECHANICAL-ACCELERATION AND SPEED	RPM meter of Centrifuge, Stroboscope, RPM meter of Vibrating machine, RPM meter of Shaker, RPM meter of Btumam Extracter	Using Digital Tachometer by Comparison method	>10000 rpm to 90000 rpm	0.05 % of reading
45	MECHANICAL-ACCELERATION AND SPEED	RPM meter of Centrifuge, Stroboscope, RPM meter of Vibrating machine, RPM meter of Shaker, RPM meter of Btumam Extracter	Using Digital Tachometer by Comparison method	10 rpm to 100 rpm	3.5 % of reading
46	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer, RPM source by Comparison method	>100 rpm to 1000 rpm	1 % of reading
47	MECHANICAL-ACCELERATION AND SPEED	Tachometer - contact Type	Using Digital Tachometer, RPM source by Comparison method	>1000 rpm to 8000 rpm	0.4 % of reading
48	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer, RPM source by Comparison method:	10 rpm to 100 rpm	3.5 % of reading

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49	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non contact Type	Using Digital Tachometer, RPM source by Comparison method	>100 rpm to 1000 rpm	1.6 % of reading
50	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non contact Type	Using Digital Tachometer, RPM source by Comparison method	>1000 rpm to 10000 rpm	1.6 % of reading
51	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non contact Type	Using Digital Tachometer, RPM source by Comparison method::	>10000 rpm to 90000 rpm	0.05 % of reading
52	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non contact Type	Using Digital Tachometer, RPM source by Comparison method:	10 rpm to 100 rpm	3.5 % of reading
53	MECHANICAL-ACOUSTICS	Sound Level meter	Using Sound level calibrator by direct method	114 dB @ 1 kHz	0.74 dB
54	MECHANICAL-ACOUSTICS	Sound Level meter	Using Sound Level calibrator by Direct method	94 dB @ 1 kHz	0.74 dB
55	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometers , Lactometers	Using reference hydrometers & compatible liquids by comparison method as per IS 3104: 1982(RA-2018)	0.650 g/ml to 1.150 g/ml	0.0007 g/ml

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56	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometers , Lactometers	Using reference hydrometers & compatible liquids by comparison method as per IS 3104: 1982(RA-2018)	1.150 g/ml to 2.000 g/ml	0.002 g/ml
57	MECHANICAL-DENSITY AND VISCOSITY	Viscosity Cup: Orifice Diameter : 1 to 6 mm	Using Viscosity Standard by Comparison Method	64.40 cSt to 330 cSt	2.1 %
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate: Parallelism of opposite faces and edges	Using Surface plate , Master cylinder , Lever Dial , Height gauge , Jack By Comparison Method	Upto 450 mm	13.0 µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit (L.C : 0.001 mm)	Using Setting Ring gauge by Comparison Method	+/- 100 µm	3.6 µm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Ring Gauge	Using Length measuring M/C - By Comparison Method	100 mm to 180 mm	1.6 µm

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61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Ring Gauge	Using Length measuring M/C - By Comparison Method	3 mm to 100 mm	1.5 µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate - Flatness of working face	Using Surface plate , Master cylinder , Lever Dial , Height gauge , Jacks- By Comparison Method	Upto 450 mm	13.0 µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate - Squareness of exterior faces over width	Using Surface plate , Master cylinder , Lever Dial , Height gauge , Jacks By Comparison Method	Upto 450 mm	13.0 µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center - Parallelism	Using Test Mandrel (Taper / Straight) , Lever dial By Comparison Method	Upto 3000 mm	8.3 µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center - Run out	Using Test Mandrel (Taper / Straight) , Lever dial By Comparison Method	Upto 3000 mm	8.3 µm

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66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel / Degree Protectors LC: 0.01°/ 5 minutes	Using Angle gauges set,Dial indicator, Height Gauge, Master Cylinder and surface plate- By Comparison Method	0 ° to 180 °	0.42 minutes of arc
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauges (2 Point) Transmission Accuracy Check) L.C:0.001 mm	Using Length measuring M/C- By Comparison Method	upto 2 mm	1.0 µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Angle Plate - Parallelism of opposite faces and edges	Using Surface plate , Master cylinder , Lever Dial , Height gauge , Jacks- By Comparison Method:	Upto 450 mm	13.0 µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Angle Plate - Squareness of adjacent faces over dimensions	Using Surface plate , Master cylinder , Lever Dial , Height gauge , Jack By Comparison Method:	Upto 450 mm	13.0 µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Angle Plate- Flatness of Working (Exterior) faces	Using Surface plate , Master cylinder , Lever Dial , Height gauge , Jacks By Comparison Method	upto 450 mm	13 µm

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71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier , Dial , Digital) L.C : 0.02 mm	Using Length Bar , Gauge Block(0-Grade) , Digital Micrometer - By Comparison Method	0 to 1800 mm	16.0 µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier , Dial , Digital) L.C: 0.01 mm	Using Length Bar , Gauge Block(0-Grade) , Digital Micrometer By Comparison Method	0 to 1000 mm	8.8 µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier , Dial , Digital) L.C: 0.01 mm	Using Caliper checker , Gauge Block(0-Grade) By Comparison Method	0 to 300 mm	8.4 µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier , Dial , Digital) L.C: 0.01 mm	Using Caliper checker , Gauge Block(0-Grade) , Digital Micrometer - By Comparison Method	0 to 600 mm	7.4 µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier , Dial , Digital) L.C: 0.02 mm	Using Length Bar , Gauge Block (0-Grade) , Digital Micrometer By Comparison Method	0 to 1000 mm	15.0 µm

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76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Chamfer /Weld fillet / Hi-Lo / Bridge cam gauge - Angle	Using Profile projector by Comparison Method	1 ° to 90 °	14 minute of Arc
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Chamfer /Weld fillet / Hi-Lo / Bridge cam gauge- Length	Using Profile projector by Comparison Method	0 to 60 mm	5.3 µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness gauge (L.C: 0.01 mm)	Using Coating /Master foils By Comparison Method	>0.8 mm to 10 mm	6.0 µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge L.C: 0.1 µm	Using Coating/ Master Foils by Comparison Method	10 µm to 0.8 mm	1.5 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination set, Clinometer , Inclinometer L.C: 1°	Using Angle Gauges - By Comparison Method	0 ° to 180 °	36 minutes of Arc

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81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Granite & Cast Iron) -Flatness Deviation	Using Electronics level by Comparison Method:	150 mm x 150 mm to 300 mm to 300 mm	0.51 sqrt L+W /125 (L ,W is in mm)
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hach Tester	Using Profile projector by direct method	0 to 2 mm	6.2 µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical / Cube Mould	Using Digital caliper, Depth gauge by Comparison Method	20 mm to 300 mm	82.3 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Standard - Diameter	Using Length measuring M/C , Gauge Block By Comparison Method	0.5 mm to 150 mm	1.0 µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Standard - Run out	Using Bench centre , Lever Dial By Comparison Method	0.5 mm to 200 mm	9.0 µm

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86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Standard- Diameter	Using Length measuring M/C , Setting Plug By Comparison Method	150 mm to 200 mm	2.3 µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C :0.001 mm	Using Gauge Blocks (0-Grade),Surface Plate - By Comparison Method	0 to 25 mm	2.2 µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C :0.001 mm	Using Gauge Blocks (0-Grade), Surface Plate By Comparison Method	0 to 150 mm	2.3 µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Caliper - External , L.C: 0.01 mm	Using Gauge Block (0- Garde) by Comparison Method	0 to 50 mm	7.05 µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial caliper- Internal , L.C : 0.01 mm	Using Digital Micrometer - By Comparison Method	10 mm to 150 mm	7.43 µm

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91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator (Lever Type) L.C :0.001 mm	Using Length Measuring M/C - By Comparison Method	0 to 0.14 mm	0.9 µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator (Lever Type) L.C :0.002 mm	Using Length Measuring M/C - By Comparison Method	0 to 0.60 mm	0.9 µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator (Lever Type) L.C :0.01 mm	Using Length Measuring M/C - By Comparison Method	0 to 1.0 mm	1.4 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator (Plunger type) L.C :0.01 mm	Using Length Measuring M/C - By Comparison Method	0 to 100 mm	1.7 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator (Plunger) L.C :0.001 mm	Using Length Measuring M/C - By Comparison Method	0 to 50 mm	1.3 µm

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96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator (Plunger) L.C :0.001 mm	Using Length Measuring M/C - By Comparison Method	0 to 25 mm	1.0 µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C: 0.01 mm	Using Gauge Blocks (0- Grade) by Comparison Method	0 to 50 mm	9.2 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C: 0.1 mm	Using Gauge blocks (0-Garde) by Comparison Method	0 to 100 mm	11.6 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge / Dial Caliper L.C: 0.001 mm	Using Gauge blocks (0-Garde) by Comparison Method	0 to 12 mm	0.8 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronics Level L.C: 0.01 /0.001 mm/mtr	Using Robust Tilting Table , Electronics level by Comparison Method	upto 10 mm/mtr	8.7 µm/mtr

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101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation gauge	Using Digital caliper - By Comparison Method	0 mm to 100 mm	26 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer Square/ Cylindrical Square - Squareness	Using Surface plate , Master cylinder , Gauge Block (0-Grade)- By Comparison Method	upto 600 mm	9.7 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital / Plain / Analog / Groove) L.C :0.01 mm	Using Length Bar , Gauge Blocks (0-Grade) , Optical flat, set of 4 Optical Parallels - By Comparison Method	150 mm to 1000 mm	11.5 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital/ Plain/ Analog/ Groove) L.C :0.01 mm	Using Length Bar , Gauge Blocks (0-Grade) , Optical flat, set of 4 Parallels - By Comparison Method	1000 mm to 1800 mm	26.0 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital/ Plain/ Analog/ Blade/ Pitch/ Pointed Flange/ Groove) L.C :0.001 mm	Using Gauge Blocks (0-Grade) , Optical flat, Set of Optical Parallels by Comparison Method	0 to 150 mm	1.8 µm

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106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Digital/ Plain/ Analog/ Blade/ Pitch/ Pointed Flange/ Groove) L.C :0.001 mm / 0.0001 mm	Using Gauge Blocks (0-Grade) , Optical flat, set of 4 Optical Parallels - By Comparison Method	0 to 25 mm	1.3 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler gauge/ Coating Foils	Using Length measuring M/C- By Comparison Method	Up to 10 mm	1.3 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness gauge	Using Digital caliper - By Comparison Method	0 to 100 mm	30.5 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge , Step Gauge L.C: 0.01 mm	Using Electronics Probe , Surface plate by Comparison Method	Upto 100 µm	2.3 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier , Dial , Digital) L.C : 0.01 mm	Using Caliper checker , Surface plate , Lever Dial - By Comparison Method	0 to 300 mm	7.9 µm

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111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier , Dial , Digital) L.C: 0.01 mm	Using Caliper checker , Surface plate , Lever Dial by Comparison Method	0 to 600 mm	7.7 µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier , Dial , Digital) L.C: 0.01 mm / 0.02 mm	Using Length bar , Surface plate , Lever Dial by Comparison Method	0 to 1000 mm	14.0 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Master (Pitch Block Accuracy) , L.C : 0.001 mm	Using Linear height 2d , Surface plate , Gauge block (0-Grade) By Comparison Method	0 to 600 mm	7.9 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Holtest /Three Point Internal Micrometer L.C: 0.001 mm	Using set of Ring gauges By Comparison Method	2 mm to 100 mm	2.1 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal / Stick Micrometer L.C :0.001 mm / 0.01 mm	Using Guage blocks (0-Grade) with accessary, Caliper checker by Comparison Method	5 mm to 50 mm	8.8 mm

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116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal /Stick Micrometer L.C :0.001 mm	Using Gauge block with accessories, Caliper checker by Comparison Method	50 mm to 500 mm	7.8 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins	Using Length measuring M/C by Comparison Method	0.1 mm to 20 mm	0.8 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Metric Steel scales , LC :1 mm	Using Scale & Tape calibration unit by Comparison Method	0 to 2000 mm	133 sqrt L/1000 µm (Where L is in mm)
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Metric Steels/ Woven Metallic / Fiber Tapes , L.C :1 mm	Using Scale & Tape calibration unit By Comparison Method	0 to 50 meter	133 sqrt L/1000 µm (Where L is in mm)
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head L.C :0.001 mm	Using Length measuring machine - By Comparison Method	0 to 50 mm	1.0 µm

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121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope L.C: 0.1/0.01 mm	Using Glass scale by Comparison Method	0 to 1 mm	7.9 µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pie Tape L.C:1 mm	Using Scale & Tape calibration unit by Comparison Method	15 mm to 6000 mm	155 L / 1000 µm (L is in mm)
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge(Setting /Master)	Using Length Measuring M/C by Comparison Method	100 mm to 180 mm	1.6 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge(Setting /Master)	Using Length Measuring M/C by Comparison Method	3 mm to 100 mm	1.5 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Length Measuring M/C - By Comparison Method	1 mm to 100 mm	1.1 µm

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126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Length Measuring M/C - By Comparison Method	100 mm to 150 mm	1.6 µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Length Measuring M/C - By Comparison Method	150 mm to 270 mm	2.8 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/ Magnetic V Block (Flatness)	Using Surface plate , Lever dial , Test Mandrels , Cylindrical Work piece, Height gauge for Holding -By Comparison Method	Upto 200 mm	4.6 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/ Magnetic V Block (Parallelism)	Using Surface plate , Lever dial , Test Mandrels , Cylindrical Work piece, Height gauge for Holding- By Comparison Method	Upto 200 mm	4.6 µm

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130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/ Magnetic V Block-Perpendicularity	Using Surface plate , Lever dial , Test Mandrels , Cylindrical Work piece, Height gauge for Holding By Comparison Method	Upto to 200 mm	4.6 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile / Form / PCD gauges (Linear Dim.)	Using Profile Projector - By Comparison Method	Upto 200 mm	5.8 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile / Form / PCD Gauges (Angle)	Using Profile Projector By Comparison Method	Upto 360 °	12.6 second of Arc
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector By Comparison Method	0.6 mm to 100 mm	5.4 µm

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134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar -Angular Measuremnets	Using Angle Gauges , Electronics Probe, Lever dial , Surface plate , Height gauge, Gauge Block(0-Grade) - By Comparison Method	upto 300 mm	3.3 Second of Arc
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Length Measuring M/C- By Comparison Method	100 mm to 180 mm	1.3 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Length measuring M/C - By Comparison Method	3 mm to 100 mm	1.2 µm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level LC: 0.02 mm/mtr	Using Robust Tilting Table , Electronics level , Dial indicator(lever) , Height gauge, surface plate - By Comparison Method	Upto 300 mm (Base length) mm	7.9 µm/mtr

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138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step gauge	Using 2 D height gauge - By Comparison Method	0.5 mm to 100 mm	6.0 µm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite & Cast Iron)- Flatness Deviation	Using Electronics level by Comparison Method	450 mm 450 mm to 6000 mm X 6000 mm	0.51 sqrt L+W /125 µm (L ,W is in mm)
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves - Aperture size	Using Profile projector - By Comparison Method	0.02 mm to 4.0 mm	3.8 µm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves - Aperture size	Using Digital caliper - By Comparison Method	4.0 mm to 125 mm	23.0 µm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge / Micrometer- Pitch accuracy	Using Profile Projector by Comparison Method	0.25 mm to 6.0 mm	2.80 µm

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143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge/ Micrometer- Flank Angle	Using Profile Projector by Comparison Method	upto 60 °	0.2 min.of Arc
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug/ WCP Gauge- Effective Diameter	Using Length measuring M/C, Three wire pin set By Comparison Method	1 mm to 100 mm	2 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread plug/ WCP Gauge-Effective Diameter	Using Length measuring M/C, Three wire pin set By Comparison Method	100 mm to 180 mm	2.95 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring/ Wear checking Ring Gauge-Effective Dia.	Using Length measuring M/C.- By Comparison Method	3 mm to 100 mm	1.86 µm
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge LC : 0.1 mm	Using Gauge Block-0-Grade - By Comparison Method	1.2 mm to 100 mm	70.4 µm

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148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Depth Gauge LC:0.01 mm	Using Length Bar Grade -0 Gauge Block ,Lever dial Surface plate , Holding fixture- By Comparison Method	0 to 200 mm	9.2 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vicat test apparatus Plunger diameter (Needle)	Using Digital Micrometer by Comparison Method	0.5 mm to 10 mm	7.4 µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire gauge	Using Profile projector By Comparison Method	0.19 mm to 7.82 mm	7.0 µm
151	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker / Check Master	Using Length Bar, Linear height 2D, Surface Plate By comparison method .	0 to 600 mm	3.8 µm
152	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial calibration Tester LC:0.001 mm	Using Electronics Probe , Gauge Block (0-Grade) ,By comparison method .	0 to 25 mm	1.2 µm

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153	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronics /LVDT Probe LC: 0.01/0.1 micron	Using Gauge Block, Slip Gauges (0-Grade) . Surface Plate ,By comparison method .	0 to 25 mm	1.2 µm
154	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronics- 2 D Height Gauge (L.C: 0.0001 mm) (Linear, Squareness)	Using Length Bar, Gauge Block (0 Grade) , Surface plate, Master Cylinder by Comparison Method	0 to 600 mm	4.9 µm
155	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Accessories - Flatness	Using Optical Flat, Surface Plate , Electronics probe ,By comparison method .	Upto 250 mm	0.3 µm
156	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Accessories - Parallelism	Using Optical Flat, Surface Plate , Electronics probe ,By comparison method .	Upto 250 mm	2.6 µm
157	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block- Slip gauges	Using Gauge Block set (K-Grade)& Gauge Block Calibrator ,By comparison method .	0.5 mm to 10 mm	0.10 µm

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158	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block- Slip gauges	Using Gauge Block set (K-Grade)& Gauge Block Calibrator ,By comparison method .	25 mm to 50 mm	0.20 µm
159	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block- Slip gauges	Using Gauge Block set (K-Grade)& Gauge Block Calibrator,By comparison method .	50 mm to 100 mm	0.37 µm
160	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Blocks- Slip gauges	Using Gauge Block set (K-Grade)& Gauge Block Calibrator ,By comparison method .	10 mm to 25 mm	0.13 µm
161	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Rod /Length Bar	Using Length Measuring M/C, 0-Grade slip gauges , Setting Plug,Comparison Method	100 mm to 200 mm	2.3 µm
162	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Rod /Length Bar	Using Length Bar ,Electronics Probe with Comparator stand	200 mm to 500 mm	3.0 µm

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163	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Rod /Length Bar	Using Length Measuring M/C ,Comparison Method	25 mm to 100 mm	1.0 µm
164	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Rod /Length Bar	Using Length Bar ,Electronics Probe with Comparator stand	500 mm to 1000 mm	4.0 µm
165	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Flat Type A - Flatness	Using Master Optical Flat, Monochromatic light source ,By comparison method .	UPTO 50 mm	0.10 µm
166	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Parallel - Flatness	Using Master Flat, Monochromatic light source , Two Probe comparator,By comparison method .	Upto 50 mm	0.10 µm
167	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Parallel - Parallelsim	Using Master Flat, Monochromatic light source , Two Probe comparator, By comparison method .	Upto to 50 mm	0.10 µm
168	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angle , L.C: 1 Second	Using Angle gauges by comparison method .	0 ° to 360 °	3.1 Second

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169	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear . LC:0.001 mm	Using Glass scale ,By comparison method .	0 to 200 mm	2.2 µm
170	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Gauge Block (0-Grade) , Digital Caliper ,By comparison method .	10 X to 100 X	0.12 %
171	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Spline Plug . Ring Gauge - Diameter over pin	Using Length measuring M/C+Measuring Pins ,By comparison method .	10 mm to 100 mm	2.10 µm
172	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester(Portable) (Ra)	Using Roughness Master ,By comparison method .	Ra-0.4 ,3.20 µm	0.42 µm
173	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal / Length measuring M/C , L.C: 0.1 µm	Using Gauge Block (K- Grade) ,By comparison method .	0 to 100 mm	0.33 µm
174	MECHANICAL-DUROMETER	Shore Rubber Hardness Tester (Type A, D, 00)	Using Rubber Hardness Calibrator (Fitted with Load cell with Indicator, / Spring Force Measurement method as per ASTM D 2240- 05	0 to 100 Shore	0.40 Shore

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175	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull gauge/ Force gauge (In Push Pull mode)	Using Dead weight and loading hangers as per VDI/VDE-2624 : DEC-2008	20 N to 1000 N	1 N
176	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure gauges/ Switches /Transmitters/ Transducers	Using Digital Pressure Gauge , Hydraulic comparator, 6 ½ Digital Multimeter by comparison method as per DKDR6-1	0 to 1000 bar	1.78 bar
177	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure gauges/ Switches /Transmitters/ Transducers	Using Digital Pressure Gauge , Hydraulic comparator, 6 ½ Digital Multimeter by comparison method as per DKDR6-1	0 to 200 bar	0.8 bar
178	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure - Vacuum gauges	Using Digital pressure gauge, Vacuum pump By Comparison method as per DKDR6-1	(-) 0.8 bar to 0	0.008 bar
179	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure gauges/ Switches /Transmitters/ Transducers	Using Digital Pressure Gauge , Pneumatic comparator, 6 ½ Digital Multimeter by comparison method as per DKDR6-1	0 to 30 bar	0.03 bar

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180	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure gauges/ Switches /Transmitters/ Transducers/ Magnehelic gauge/ Manometers	Using Digital manometer , Pneumatic comparator, 6 ½ Digital Multimeter by comparison method as per DKDR6-1	0 to 0.34 bar	0.006 bar
181	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure calibrator , Analog & Digital pressure gauges , Pressure Transducers, Transmitters - Medium Hydraulic	Using Dead weight Tester based , 6 ½ Digital Multimeter by Direct Method on DKD R6-1	6 bar to 600 bar	0.09 %rdg
182	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type 1 , Class B, C, D, E & Type 2, Class A, B, D, E	Using Torque transducers and indicator , Digital torque wrench calibration system as per IS/ISO 6789:2017	1 Nm to 10 Nm	1.4 %
183	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench Type 1, Class B, C, D, E & Type 2, Class A, B, D, E	Using Torque transducers and indicator , Digital torque wrench calibration system as per IS/ISO 6789:2017	10 Nm to 1000 Nm	1.86 %

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184	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator/ Torque Transducers/ Torque meter / Torque Tester , Class 0.5 and coarser	Using Dead weight torque calibration system consisting of lever arm and Dead weight as per BS-7882:2017	200 Nm to 1000 Nm	0.12 %
185	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator/Torque Transducers/Torque meter /Torque Tester , Class 0.5 and coarser	Using Dead weight torque calibration system consisting of lever arm and Dead weight as per BS-7882:2017	10 Nm to 50 Nm	0.15 %
186	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator/Torque Transducers/Torque meter /Torque Tester , Class 0.5 and coarser	Using Dead weight torque calibration system consisting of lever arm and Dead weight as per BS-7882:2017	2 Nm to 10 Nm	0.10 %
187	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator/Torque Transducers/Torque meter /Torque Tester , Class 0.5 and coarser	Using Dead weight torque calibration system consisting of lever arm and Dead weight as per BS-7882:2017	50 Nm to 200 Nm	0.10 %
188	MECHANICAL-TORQUE MEASURING DEVICES	Torque Calibrator/Torque Transducers/Torque meter /Torque Tester , Class 1.0 and coarser	Using Dead weight torque calibration system consisting lever arm(Torque calibration Disc), As pert BS 7882:2017	0.2 Nm to 2 Nm	0.96 %

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189	MECHANICAL-VOLUME	Glass ware (Pipettes/ Burette/ Measuring cylinder/ Volumetric flask/ Beaker/ Jar/ Conical flask)	Using Weighing balance of (L.C: 0.1 mg) and distilled water of known density by Gravimetric Method as per ISO 4787: 2021	10 ml to 100 ml	7 µl
190	MECHANICAL-VOLUME	Glass ware (Pipettes/ Burette/Measuring cylinder/Volumetric flask/ Beaker/Jar/Conical flask)	Using Weighing balance of (L.C: 0.01 mg) and distilled water of known density by Gravimetric Method as per ISO 4787 : 2021	1 ml to 10 ml	0.8 µl
191	MECHANICAL-VOLUME	Glass ware (Pipettes/ Burette/Measuring cylinder/Volumetric flask/ Beaker/Jar/Conical flask)	Using Weighing balance of LC=1mg and distilled water of known density as per ISO 4787 ;2021,Gravimetric Method	100 ml to 500 ml	8 µl
192	MECHANICAL-VOLUME	Glass ware (Pipettes/ Burette/Measuring cylinder/Volumetric flask/ Beaker/Jar/Conical flask)	Using Weighing balance of LC=10mg and distilled water of known density as per ISO 4787 ;2021,Gravimetric Method	500 ml to 1000 ml	0.03 ml

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193	MECHANICAL-VOLUME	Micro-Pipettes	Using weighing balance (L.C:0.01 mg) and distilled water of known density by Gravimetric Method as per ISO 8655-6-1: 2022	100 µl to 1000 µl	0.7 µl
194	MECHANICAL-VOLUME	Micro-Pipettes	Using weighing balance (L.C: 0.01 mg) and distilled water of known density by Gravimetric Method as per ISO 8655-6-1: 2022	1000 µl to 5000 µl	1.18 µl
195	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (Class IIII) Readability:10 g & Coarser	Using F1& M1 class weights as per IS 16514 part 1 and part 2	0 to 50 kg	8 g
196	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class I), Readability: 1 mg & Coarser	Using Standard weights F1 class as per OIML R 76-I	0 to 1000 g	6.7 mg
197	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class II) Readability: 10mg & Coarser	Using Standard weights F1 class as per OIML R76 -1	0 to 1200 g	10.6 mg

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198	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class I) Readability:0.1 mg & Coarser	Using Standard weights E1 class (1 mg to 200 g) as per OIML R-76 -1	42 g to 200 g	0.1 mg
199	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class I) Readability: 0.001 mg & Coarser	Using Standard weights E1 class (1 mg to 200 g) as per OIML R-76-1	1 mg to 42 g	0.02 mg
200	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class II) Readability: 0.1 g & Coarser	Using Standard weights F1 class as per OIML R-76-1	0 to 15 kg	0.11 g
201	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class II) Readability: 10 mg & Coarser	Using Standard weights of F1 class as per OIML R76 -1	0 to 3200 g	11.7 mg
202	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class III) Readability: 1 g & Coarser	Using Standard weights F1 class as per OIML R76 -1	0 to 50 kg	0.9 g
203	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class IIII) Readability: 20 g & Coarser	Using Standard weights F1 , M1 class as per OIML R 76-1	0 to 200 kg	175 g

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204	MECHANICAL-WEIGHTS	Weight of F2 class and coarser	Using standard weights of class F1, weighing balance with (L.C: 10 mg) By Substitution method as per OIML R-111:2004	1 kg	1.1 mg
205	MECHANICAL-WEIGHTS	Weight of F2 class and coarser	Using standard weights of F1 class & weighing balance of (L.C: 0.001 g) by Substitution method as per OIML R-111:2004	500 g	1 mg
206	MECHANICAL-WEIGHTS	Weight of M1 class and coarser	Using standard weights of class F1, weighing balance with (L.C: 0.1 g) by Substitution method as per OIML R-111:2004	10 kg	100 mg
207	MECHANICAL-WEIGHTS	Weight of M1 Class and coarser	Using standard weights of class F1, weighing balance with (L.C: 0.1 g) by Substitution method as per OIML R-111:2004	5 kg	70.65 mg

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208	MECHANICAL-WEIGHTS	Weight of F1 class and coarser	Using standard weights of E1 class & weighing balance of (L.C: 0.01 mg) by Substitution method as per OIML R-111:2004.	10 g	0.04 mg
209	MECHANICAL-WEIGHTS	Weight of F1 class and coarser	Using standard weights of E1 class & weighing balance of (L.C: 0.1 mg) by Substitution method as per OIML R-111:2004	100 g	0.1 mg
210	MECHANICAL-WEIGHTS	Weight of F1 class and coarser	Using standard weights of E1 class & weighing balance of (L.C: 0.01 mg) by Substitution method as per OIML R-111:2004.,	2 g	0.04 mg
211	MECHANICAL-WEIGHTS	Weight of F1 class and coarser	Using standard weights of E1 class & weighing balance of (L.C: 0.01 mg) By Substitution method as per OIML R-111:2004	20 g	0.05 mg

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212	MECHANICAL-WEIGHTS	Weight of F1 class and coarser	Using standard weights of E1 class & weighing balance (L.C: 0.1 mg) by Substitution method as per OIML R-111:2004	200 g	0.3 mg
213	MECHANICAL-WEIGHTS	Weight of F1 class and coarser	Using standard weights of E1 class & weighing balance of (L.C: 0.1 mg) by Substitution method as per OIML R-111:2004	50 g	0.14 mg
214	MECHANICAL-WEIGHTS	Weight of F2 class and coarser	Using standard weights of E1 class & weighing balance of (L.C: 0.01 mg) By Substitution method as per OIML R-111:2004	1 g	0.04 mg
215	MECHANICAL-WEIGHTS	Weight of F2 class and coarser	Using standard weights of E1 class & weighing balance of (L.C: 0.01 mg) by Substitution method as per OIML R-111:2004	1 mg	0.03 mg

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216	MECHANICAL-WEIGHTS	Weight of F2 class and coarser	Using standard weights of E1 class & weighing balance of (L.C: 0.01 mg) by Substitution method as per OIML R-111:2004	10 mg	0.03 mg
217	MECHANICAL-WEIGHTS	Weight of F2 class and coarser	Using standard weights of E1 class & weighing balance of (L.C: 0.01 mg) By Substitution method as per OIML R-111:2004	100 mg	0.03 mg
218	MECHANICAL-WEIGHTS	Weight of F2 class and coarser	Using standard weights of E1 class & weighing balance of (L.C: 0.01 mg) By Substitution method as per OIML R-111:2004	2 mg	0.03 mg
219	MECHANICAL-WEIGHTS	Weight of F2 class and coarser	Using standard weights of E1 class & weighing balance of (L.C: 0.01 mg) by Substitution method as per OIML R-111:2004.	20 mg	0.03 mg

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220	MECHANICAL-WEIGHTS	Weight of F2 class and coarser	Using standard weights of E1 class & weighing balance of (L.C:0.01 mg) by Substitution method as per OIML R-111:2004.	200 mg	0.01 mg
221	MECHANICAL-WEIGHTS	Weight of F2 class and coarser	Using standard weights of E1 class & weighing balance of (L.C: 0.01 mg) by Substitution method as per OIML R-111:2004	5 g	0.04 mg
222	MECHANICAL-WEIGHTS	Weight of F2 class and coarser	Using standard weights of E1 class & weighing balance of (L.C: 0.01 mg).by Substitution method as per OIML R-111:2004	5 mg	0.03 mg
223	MECHANICAL-WEIGHTS	Weight of F2 class and coarser	Using standard weights of E1 class & weighing balance of (L.C: 0.01 mg) By Substitution method as per OIML R-111:2004	50 mg	0.03 mg

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224	MECHANICAL-WEIGHTS	Weight of F2 class and coarser	Using standard weights of E1 class & weighing balance of (L.C: 0.01 mg) By Substitution method as per OIML R-111:2004	500 mg	0.04 mg
225	MECHANICAL-WEIGHTS	Weight of M1 class and coarser	Using standard weights of F1 class & weighing balance of (L.C: 0.01 g) by Substitution method as per OIML R-111:2004	2 kg	20 mg
226	MECHANICAL-WEIGHTS	Weights Class M1 and coarser	Using standard weights of class F1, weighing balance with (L.C: 1 g) By Substitution method as per OIML R-111:2004	20 kg	0.9 g
227	MECHANICAL-WEIGHTS	Weights Class M3 and coarser	Using standard weights of class F1, weighing balance with (L.C: 1 g) By Substitution method as per OIML R-111:2004	50 kg	0.9 g
228	OPTICAL-OPTICAL	LUX/LIGHT METER	Illuminance/ /Lux meter	1 lx to 20000 lx	7.5 %

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229	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity controller/ Indicator with sensor/ Thermo Hygrometer	Using Temp.& Humidity meter with sensor & Humidity chamber by comparison method	25 % rh to 90 % rh @ 25 °C	2.45 % rh
230	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Humidity Chamber/ Environmental Chamber (Single Position)	Using Temp.& Humidity meter with sensor by comparison method	25 % rh to 90 % rh @ 25 °C	2.1 % rh
231	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature of Humidity controller/ Indicator with sensor/ Thermo Hygrometer	Using Temp & Humidity meter with sensor & Humidity Chamber by Comparison method	10 °C to 50 °C @ 50 % rh	1.32 °C
232	THERMAL-TEMPERATURE	Indicator with sensor of Environment Chamber, Furnaces, Freezers, Oven, Vacuum Oven, BOD Incubator, Incubator, Centrifuge Chamber, Cold Room, Hot Room, Autoclave, Aging Oven, Dry block , Muffle Furnace (Single Position)	Using Simplex , 4 Wire RTD sensor with indicator By comparison method	(-) 80 °C to 400 °C	0.5 °C

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233	THERMAL-TEMPERATURE	Indicator with sensor of Oven , Vacuum oven , Hot chamber ,Dry block Furnace / Muffle / Industrial Furnace (Single Position)	Using R Type Thermocouple with Indicator By comparison method	>400 °C to 1200 °C	3.80 °C
234	THERMAL-TEMPERATURE	Infrared Temperature Indicator / Thermal imager (Temperature only) / Pyrometer (emissivity 0.95)	Using with IR Thermometer and black body source with emissivity (0.95) By comparison method	> 50 °C to 500 °C	2.27 °C
235	THERMAL-TEMPERATURE	Infrared Temperature Indicator/ Thermal imager (Temperature Only)/ Pyrometer (emissivity 0.95)	Using with IR Thermometer and black body source with emissivity (0.95) By comparison method	10 °C to 50 °C	2.28 °C

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236	THERMAL-TEMPERATURE	RTD / Thermocouples With or without Controller / Indicator/ Data Logger / Recorder, Temperature Transmitter, Temperature Gauge, Liquid in Glass Thermometer, Digital Thermometer	Using Temp. indicator with RTD (Pt 100) sensor , Oil bath, 6 ½ Digital Multimeter By Comparison Method	> 50 °C to 170 °C	2.11 °C
237	THERMAL-TEMPERATURE	RTD/ Thermocouples With or without Controller / Indicator/ Data Logger / Recorder, Temperature Transmitter, Temperature Gauge, Liquid in Glass Thermometer, Digital Thermometer	Using Simplex 4 wire RTD with indicator-PT-100, liquid bath, 6 ½ Digital Multimeter By comparison method	(-) 30 °C to 50 °C	0.4 °C
238	THERMAL-TEMPERATURE	Thermocouples With or without Controller / Indicator / Data Logger / Recorder, Temperature Transmitter, Temperature Gauge, Digital Thermometer	Using Iindicator with with R Type sensor, Dry Block Furnace, 6 ½ Digital Multimeter By Comparison Method	> 200 °C to 500 °C	3.3 °C

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239	THERMAL-TEMPERATURE	Thermocouples With or without Controller / Indicator/ Data Logger / Recorder, Temperature Transmitter, Temperature Gauge	Using Temp. sensor with indicator R type, Dry block furnace, 6 ½ Digital Multimeter By comparison method	> 500 °C to 1200 °C	3.8 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High voltage probe with DMM by Direct Method	1 kV to 28 kV	5.80 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy, 1 Phase 2 wire @ 50 Hz , 240 V, 0.1 A to 10 A, UPF	Using Single /Three phase engry Meter by Direct Method	24 Wh to 2.0 kWh	0.30 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy, 3 Phase 4 wire @ 50 Hz , 240 V, 0.1 A to 100 A, UPF	Using Single /Three phase engry Meter by Direct Method:	72 Wh to 2.0 kWh	0.65 %
4	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High voltage probe with DMM by Direct Method	1 kV to 10 kV	4.43 %
5	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J-Type Thermocouple	Using Process calibrator by direct method	(-) 200 °C to 500 °C	1.50 °C

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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Process calibrator by Direct method	(-) 200 °C to 1200 °C	1.50 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Process calibrator by Direct method	200 °C to 1600 °C	1.86 °C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)Type	Using Process calibratior by Direct method	(-) 200 °C to 795 °C	1.50 °C
9	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time interval calibrator by Comparison Method	1 s to 80000 s	4.3 % to 0.03 %
10	FLUID FLOW-FLOW MEASURING DEVICES	Liquid (water) volume flow rate measuring devices	Using hand held ultrasonic flow meter by comparison method	1.2 m3/hr to 735 m3/hr	2.0 %rdg.
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center - Parallelism	Using Test Mandrel (Taper / Straight) , Lever dial By Comparison Method	Upto 3000 mm	8.3 µm

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12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center - Run out	Using Test Mandrel (Taper / Straight) , Lever dial By Comparison Method	Upto 3000 mm	8.3 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Granite & Cast Iron) -Flatness Deviation	Using Electronics level by Comparison Method:	150 mm x 150 mm to 300 mm to 300 mm	0.51 sqrt L+W /125 (L ,W is in mm)
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier , Dial , Digital) L.C: 0.01 mm / 0.02 mm	Using Length bar , Surface plate , Lever Dial by Comparison Method	0 to 1000 mm	14.0 µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope L.C: 0.1/0.01 mm	Using Glass scale by Comparison Method	0 to 1 mm	7.9 µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite & Cast Iron)-Flatness Deviation	Using Electronics level by Comparison Method	450 mm 450 mm to 6000 mm X 6000 mm	0.51 sqrt L+W /125 µm (L ,W is in mm)

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17	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronics /LVDT Probe LC: 0.01/0.1 micron	Using Gauge Block, Slip Gauges (0-Grade) . Surface Plate ,By comparison method .	0 to 25 mm	1.2 µm
18	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronics- 2 D Height Gauge (L.C: 0.0001 mm) (Linear, Squareness)	Using Length Bar, Gauge Block (0 Grade) , Surface plate, Master Cylinder by Comparison Method	0 to 600 mm	4.9 µm
19	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angle , L.C: 1 Second	Using Angle gauges by comparison method .	0 ° to 360 °	3.1 Second
20	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Linear . LC:0.001 mm	Using Glass scale ,By comparison method .	0 to 200 mm	2.2 µm
21	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Gauge Block (0-Grade) , Digital Caliper ,By comparison method .	10 X to 100 X	0.12 %
22	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal / Length measuring M/C , L.C: 0.1 µm	Using Gauge Block (K- Grade) ,By comparison method .	0 to 100 mm	0.33 µm

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23	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Block by Indirect method as per IS 1586 PART 1 to 3 : 2018	HRA	1.0 HRA
24	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Using Standard Hardness Block by Indirect method as per IS 1586 PART 1 to 3 : 2018	HRBW	1.7 HRBW
25	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Tester	Standard Hardness Block/ Indirect method as per IS 1586 PART 1 to 3 : 2018	HRC	1.0 HRC
26	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Tester	Using Standard Hardness Block by direct method as per IS 1500 (Part 1 to 4) :2019 & 2021	HBW 10 / 3000	2.3 %
27	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Vickers Hardness Tester -HV 5	Using Standard Hardness Block / In direct method , As per IS 1501 (Part 1 to 4) :2020	HV-5	2.67 %

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28	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure gauges/ Switches /Transmitters/ Transducers	Using Digital Pressure Gauge , Hydraulic comparator, 6 ½ Digital Multimeter by comparison method as per DKDR6-1	0 to 1000 bar	1.78 bar
29	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure gauges/ Switches /Transmitters/ Transducers	Using Digital Pressure Gauge , Hydraulic comparator, 6 ½ Digital Multimeter by comparison method as per DKDR6-1	0 to 200 bar	0.8 bar
30	MECHANICAL-PRESSURE INDICATING DEVICES	Negative Pressure - Vacuum gauges	Using Digital pressure gauge, Vacuum pump By Comparison method as per DKDR6-1	(-) 0.8 bar to 0	0.008 bar
31	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure gauges/ Switches /Transmitters/ Transducers	Using Digital Pressure Gauge , Pneumatic comparator, 6 ½ Digital Multimeter by comparison method as per DKDR6-1	0 to 30 bar	0.03 bar

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32	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure gauges/ Switches /Transmitters/ Transducers/ Magnehelic gauge/ Manometers	Using Digital manometer , Pneumatic comparator, 6 ½ Digital Multimeter by comparison method as per DKDR6-1	0 to 0.34 bar	0.006 bar
33	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing M/C - Compression Mode	Using Force proving instruments . Load cell as per IS 1828 (Part 1):2022 & IS 1828 (Part 2):2015	1 kN to 2000 kN	0.77 %
34	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uniaxial Static Testing M/C -Tension Mode	Using Load cell as per IS 1828 (Part 1):2022 & IS 1828 (Part 2):2015	10 N to 50 kN	0.82 %
35	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (Class IIII) Readability:10 g & Coarser	Using F1& M1 class weights as per IS 16514 part 1 and part 2	0 to 50 kg	8 g
36	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class I), Readability: 1 mg & Coarser	Using Standard weights F1 class as per OIML R 76-I	0 to 1000 g	6.7 mg

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37	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class II) Readability: 10mg & Coarser	Using Standard weights F1 class as per OIML R76 -1	0 to 1200 g	10.6 mg
38	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class I) Readability:0.1 mg & Coarser	Using Standard weights E1 class (1 mg to 200 g) as per OIML R-76 -1	42 g to 200 g	0.1 mg
39	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class I) Readability: 0.001 mg & Coarser	Using Standard weights E1 class (1 mg to 200 g) as per OIML R-76-1	1 mg to 42 g	0.02 mg
40	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class II) Readability: 0.1 g & Coarser	Using Standard weights F1 class as per OIML R-76-1	0 to 15 kg	0.11 g
41	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class II) Readability: 10 mg & Coarser	Using Standard weights of F1 class as per OIML R76 -1	0 to 3200 g	11.7 mg
42	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class III) Readability: 1 g & Coarser	Using Standard weights F1 class as per OIML R76 -1	0 to 50 kg	0.9 g
43	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balances (Class IIII) Readability: 20 g & Coarser	Using Standard weights F1 , M1 class as per OIML R 76-1	0 to 200 kg	175 g

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44	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale (Class IIII) Readability:50 g & Coarser	Using Cast iron weight by comparison method	>20 kg to 1500 kg	400 g
45	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale (Class III) Readability:1g & Coarser	Using Standard weight by comparison method	200 g to 6 kg	1.2 g
46	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Humidity Chamber/ Environmental Chamber (Single Position)	Using Temp.& Humidity meter with sensor by comparison method	25 % rh to 90 % rh @ 25 °C	2.1 % rh
47	THERMAL-TEMPERATURE	Dry Block Furnace/ Muffle Furnace/ Industrial Furnace – (Multi position calibration)	Using Data logger with N-Type Thermocouple (minimum 9 sensor) By multi position method.	> 600 °C to 1200 °C	5.5 °C
48	THERMAL-TEMPERATURE	Dry Block Furnace/ Muffle Furnace/ Industrial Furnace (Multi position calibration)	Using Data logger with N-Type Thermocouple (minimum 9 sensor) By multi position method.	300 °C to 600 °C	5 °C

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49	THERMAL-TEMPERATURE	Environment Chamber, Furnaces, Freezers, Oven, Vacuum Oven, BOD Incubator (Industrail Purpose only), Incubator (Industrail Purpose only), Centrifuge Chamber, Cold Room, Hot Room, Autoclave (Industrail Purpose only), Aging Oven (Multi Position Calibration)	Using Data logger with RTD sensor (minimum 9 sensor) By multi position method.	(-) 30 °C to 300 °C	1.1 °C
50	THERMAL-TEMPERATURE	Indicator with sensor of Environment Chamber, Furnaces, Freezers, Oven, Vacuum Oven, BOD Incubator, Incubator, Centrifuge Chamber, Cold Room, Hot Room, Autoclave, Aging Oven, Dry block , Muffle Furnace (Single Position)	Using Simplex , 4 Wire RTD sensor with indicator By comparison method	(-) 80 °C to 400 °C	0.5 °C

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51	THERMAL-TEMPERATURE	Indicator with sensor of Oven , Vacuum oven , Hot chamber ,Dry block Furnace / Muffle / Industrial Furnace (Single Position)	Using R Type Thermocouple with Indicator By comparison method	>400 °C to 1200 °C	3.80 °C
52	THERMAL-TEMPERATURE	RTD / Thermocouples With or without Controller / Indicator/ Data Logger / Recorder, Temperature Transmitter, Temperature Gauge, Liquid in Glass Thermometer, Digital Thermometer	Using Temp. indicator with RTD (Pt 100) sensor , Oil bath, 6 ½ Digital Multimeter By Comparison Method	> 50 °C to 170 °C	2.11 °C
53	THERMAL-TEMPERATURE	Thermocouples With or without Controller / Indicator / Data Logger / Recorder, Temperature Transmitter, Temperature Gauge, Digital Thermometer	Using Iindicator with with R Type sensor, Dry Block Furnace, 6 ½ Digital Multimeter By Comparison Method	> 200 °C to 500 °C	3.3 °C

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54	THERMAL-TEMPERATURE	Thermocouples With or without Controller / Indicator/ Data Logger / Recorder, Temperature Transmitter, Temperature Gauge	Using Temp. sensor with indicator R type, Dry block furnace, 6 ½ Digital Multimeter By comparison method	> 500 °C to 1200 °C	3.8 °C

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