National Accreditation Board for Testing and Calibration Laboratories

NABL

CERTIFICATE OF ACCREDITATION

ACCUTRACE LABORATORY LLP

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

E-14, MADHAVPURA MARKET, SHAHIBAUG, AHMEDABAD, GUJARAT, INDIA

in the field of

CALIBRATION

Certificate Number: CC-2590

Issue Date: 05/03/2025 **Valid Until:** 04/03/2029

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: ACCUTRACE LABORATORY LLP

Signed for and on behalf of NABL

Anita Rani
Director

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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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 Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 µA to 100 mA	0.1 % to 0.16 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mA to 10 A	0.16 % to 0.1 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.1 % to 0.12 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mV to 1000 V	0.12 % to 0.08 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Digit Multi Function Calibrator by Direct Method	0.2 mA to 2000 mA	0.42 % to 0.35 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Multi Function Calibrator & 100 Turn Coil by Direct Method	10 A to 1000 A	0.47 % to 1.28 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Digit Multi Function Calibrator by Direct Method	2000 mA to 10 A	0.35 % to 0.47 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Digit Multi Function Calibrator by Direct Method	10 mV to 100 mV	0.64 % to 0.22 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Digit Multi Function Calibrator by Direct Method	100 mV to 1000 V	0.22 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	100 pF to 100 µF	1.27 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	0.1 mH to 10 H	2.3 % to 1.2 %
12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ DMM by Direct Method	1 nF to 100 µF	1.2 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 µA to 100 mA	0.1 %

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14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 mA to 10 A	0.1 % to 0.18 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 5 kV	3.7 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 mV	0.23 % to 0.009 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 mV to 1000 V	0.009 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire) @ (500 V & 1000 V)	Using 6½ Digital Multimeter by Direct Method	100 Mohm to 1 Gohm	0.42 % to 0.29 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digital Multimeter by Direct Method	1 ohm to 100 Mohm	0.16 % to 0.42 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ DMM & Multi Function by VI Method	100 µohm to 1 ohm	0.08 %

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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Conductivity Meter (Cell Constants 0.1,1 & 10)	Using Resistance Box by Direct Method	1 µs/cm (1 Mohm) to 200 ms/cm (5 ohm)	1.33 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method	0.2 mA to 2000 mA	0.34 % to 0.23 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator & 100 Turn Coil by Direct Method	10 A to 1000 A	1.9 % to 1.06 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method	2000 mA to 10 A	0.23 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction Calibrator by Direct Method	1 mV to 100 mV	0.88 % to 0.13 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction Calibrator by Direct Method	100 mV to 1000 V	0.13 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage for pH Meter	Using Universal Calibrator by Direct Method	(-) 416.9 mV (14 pH) to 416.9 mV (0 pH)	0.23 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 5000 V	Using High Resistance Box by Direct Method	1 Gohm to 1000 Gohm	2.5 % to 9.6 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Micro Resistance Box by Direct Method	100 µohm to 1 ohm	6.75 % to 0.24 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ (500 V & 1000 V)	Using Decade Resistance Box by Direct Method	10 Mohm to 1 Gohm	0.12 % to 2.37 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 kohm to 10 Mohm	0.5 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 ohm to 1 kohm	0.67 % to 0.5 %
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B - Type Thermocouple	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.51 °C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 250 °C to 1000 °C	0.51 °C

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35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J - Type Thermocouple	Using Universal Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.35 °C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K - Type Thermocouple	Using Universal Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.7 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N - Type Thermocouple	Using Universal Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.22 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R - Type Thermocouple	Using Universal Calibrator by Direct Method	0 to 1767 °C	0.7 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Universal Calibrator by Direct Method	(-) 200 °C to 800 °C	0.3 °C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using Universal Calibrator by Direct Method	0 °C to 1767 °C	0.8 °C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T - Type Thermocouple	Using Universal Calibrator by Direct Method	(-) 200 °C to 400 °C	0.9 °C

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42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.51 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 250 °C to 1000 °C	0.51 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.35 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Universal Calibrator by Direct Method	(-) 150 °C to 1350 °C	0.5 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Universal Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.46 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Universal Calibrator by Direct Method	0 °C to 1767 °C	1.14 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 800 °C	0.4 °C

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49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Universal Calibrator by Direct Method	0 °C to 1767 °C	1.14 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Universal Calibrator by Direct Method	(-) 200 °C to 400 °C	0.35 °C
51	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ DMM by Direct Method	1 kHz to 10 kHz	0.018 %
52	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	45 Hz to 1000 Hz	0.13 % to 0.013 %
53	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	1 s to 86400 s	0.15 s to 10 s
54	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5½ Digit Multi Function Calibrator by Direct Method	45 Hz to 999.9 Hz	0.31 % to 0.065 %
55	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow Rate (High Volume Sampler / Respirable Dust Sampler / PM 10 Sampler) - Air Medium	Using Top Loading Calibrator by Comparison Method	0.6 m^3/min to 1.5 m^3/min	3.1 %

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56	FLUID FLOW-FLOW MEASURING DEVICES	Velocity (Anemometer) - Air Medium	Using Anemometer in Wind Tunnel by Comparison Method	0.23 m/s to 4 m/s	10.2 %
57	FLUID FLOW-FLOW MEASURING DEVICES	Velocity (Pitot Tube / Anemometer) - Air Medium	Using Pitot Tube in Wind Tunnel by Comparison method	3 m/s to 30 m/s	3.51 %
58	FLUID FLOW-FLOW MEASURING DEVICES	Velocity - Anemometer / Wind Speed	Using Anemometer in Wind Tunnel by Comparison Method	0.2 m/s to 4 m/s	10.2 %
59	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Flow Meter / Rotameter / Dry Gas Meter) - Air Medium	Using Air Flow Calibrator by Comparison Method	0.5 lpm to 100 lpm	2.4 %
60	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Flow Meter / Rotameter / Dry Gas Meter) - Air Medium	Using Air Flow Calibrator by Comparison Method	1 cc/min to 500 cc/min	2.2 %
61	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source (Non - Contact Type)	Using Tachometer by Direct Method	10 rpm to 100 rpm	0.64 rpm
62	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source (Non - Contact Type)	Using Tachometer by Direct Method	100 rpm to 1000 rpm	2.4 rpm
63	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source (Non - Contact Type)	Using Tachometer by Direct Method	1000 rpm to 8000 rpm	3.15 rpm
64	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Non - Contact Type)	Using Tachometer by Direct Method	8000 rpm to 90000 rpm	13.6 rpm
65	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using RPM Source & Tachometer by Comparison Method	> 100 rpm to 1000 rpm	2.4 rpm

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66	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using RPM Source & Tachometer by Comparison Method	> 1000 rpm to 8000 rpm	3.33 rpm
67	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using RPM Source & Tachometer by Comparison Method	10 rpm to 100 rpm	0.36 rpm
68	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non - Contact Type)	Using RPM Source & Tachometer by Comparison Method	> 100 rpm to 1000 rpm	2.4 rpm
69	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non - Contact Type)	Using RPM Source & Tachometer by Comparison Method	> 1000 rpm to 8000 rpm	3.15 rpm
70	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non - Contact Type)	Using RPM Source & Tachometer by Comparison Method	> 8000 rpm to 90000 rpm	12.6 rpm
71	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non - Contact Type)	Using RPM Source & Tachometer by Comparison Method	10 rpm to 100 rpm	0.36 rpm
72	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Calibrator by Comparison Method	114 dB @ 1 kHz	0.8 dB
73	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Calibrator by Comparison Method	94 dB @ 1 kHz	0.8 dB
74	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer, Twaddle Hydrometer, Baume Hydrometer, Specific Hydrometer, Gravity Hydrometer, Brix Hydrometer, Lactometer, Alcometer.	Using Weighing Balance by Hydrostatic Weighing Method as per NIST SP 250 - 78	0.6 g/ml to 1.8 g/ml	0.0004 g/ml

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75	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometer, Twaddle Hydrometer, Baume Hydrometer, Specific Hydrometer, Gravity Hydrometer, Brix Hydrometer, Lactometer, Alcometer.	Using Weighing Balance by Hydrostatic Weighing Method as per NIST SP 250 - 78	1.8 g/ml to 2 g/ml	0.0006 g/ml
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angular Scale (L.C.: 1°)	Using Profile Projector by Comparison Method	0 ° to 360 °	9 Minutes of Arc
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor - (L.C.: 5 minute)	Using Angle Gauge by Comparison Method	0° - 90° - 0°	3.7 minutes of Arc
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - Transmission Error (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1 mm	3.5 µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bridge Cam Gauge / Weld Gauge - Linear (L.C.: 1 mm)	Using Profile Projector by Comparison Method	0 to 60 mm	228 µm

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80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker & External Micrometer by Comparison Method	0 to 300 mm	11 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker & External Micrometer by Comparison Method	0 to 600 mm	15 µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Long Slip Gauge Set by Comparison Method	0 to 2000 mm	40 µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Chamfer Gauge	Using Profile Projector by Comparison Method	0.5 mm to 5 mm	25.7 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.0001 mm)	Using Standard Foils by Comparison Method	> 525 µm to 1999 µm	3.1 µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.0001 mm)	Using Standard Foils by Comparison Method	10 µm to 525 µm	2.3 µm

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86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set (L.C.: 1°)	Using Angle Gauge by Comparison Method	0° to 90°	35 minutes of Arc
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube Mould / Beam Mould / CBR Mould / Cylindrical Mould, Slump Cone, Core Cutter	Using Digital Caliper by Comparison Method	Up to 300 mm	37 µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Gauges Block Set & Surface Plate by Comparison Method	0 to 150 mm	10 µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (L.C : 0.01 mm)	Using Slip Gauges, Long Slip Gauge & Surface Plate by Comparison Method	0 to 600 mm	10 µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C : 0.01 mm)	Using Slip Gauge Set & Surface Plate by Comparison Method	0 to 300 mm	11.2 µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.01 mm)	Using Slip Gauge Set & Surface Plate by Comparison Method	0 to 150 mm	10 µm

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92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge - Lever Type (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 0.2 mm	3.3 µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge - Lever Type (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 0.8 mm	6.7 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge - Plunger Type (L.C.: 0.0001 mm)	Using Slip Gauge Set & Comparator Stand by Comparison Method	0 to 25 mm	1.8 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge - Plunger Type (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	3.3 µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge - Plunger Type (L.C.: 0.001 mm)	Using Granite Comparator, Slip Gauges by Comparison Method	0 to 50 mm	3.5 µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge - Plunger Type (L.C.: 0.01 mm)	Using Slip Gauge Set & Comparator Stand by Comparison Method	0 to 150 mm	30 µm

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98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.001 mm)	Using Gauge Block Set by Comparison Method	0 to 12.7 mm	1.5 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.01 mm)	Using Gauge Block Set by Comparison Method	0 to 25 mm	9.9 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Index	Using Caliper comparison Method	0 to 81 mm	37 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer - Mechanical / Electrical (L.C.: 0.001 mm)	Using Extensometer Fixture and Digital Plunger Gauge by Comparison Method	0 to 25 mm	4 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Dial / Digital (L.C.: 0.001 mm)	Using Gauge Block Set by Comparison Method	0 to 150 mm	1.7 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Dial / Digital (L.C.: 0.01 mm)	Using Gauge Block Set, Long Slip Gauges by Comparison Method	0 to 1500 mm	15 µm

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104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Plunger Dial Gauge & Comparator Stand by Comparison Method	Up to 1 mm	2 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Index	Using Profile Projector by comparison Method	0 to 100 mm	10 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Plunger Dial Gauge with Comparator Stand by Direct Method	Up to 100 µm	2.7 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Long Slip Gauge Set & Surface Plate by Comparison Method	0 to 1000 mm	14 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Caliper Checker & Surface Plate by Comparison Method	0 to 600 mm	11 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer (L.C.: 0.1°)	Using Angle Gauge by Comparison Method	0° - 90° - 0°	3.4 minutes of Arc

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110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Indenter / Impact Distance Gauge / Template / Inspection Jig & fixture - Linear	Using Profile Projector by Comparison Method	0 to 200 mm	10 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Caliper (L.C.: 0.01 mm)	Using Slip Gauges & Caliper Checker by Comparison Method	0 to 150 mm	16 µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inspection JIG and Fixture - Angle	Using Profile Projector by Comparison Method	0° to 360°	9 minutes of Arc
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C.: 0.01 mm)	Using Gauge Block Set, Caliper Checker with Accessories by Direct Method	0 to 600 mm	13.4 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT with Indicator (L.C.: 0.01 mm)	Using Slip Gauge Set & Comparator Stand by Comparison Method	0 to 150 mm	30 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT with Indicator / Electronic Probe with DRO (L.C.: 0.0001 mm)	Using Slip Gauge Set & Comparator Stand by Comparison Method	0 to 25 mm	1.8 µm

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116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Dial Gauge & Slip Gauge Set by Comparison Method	0.1 mm to 20 mm	0.9 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 0.5 mm / 1 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 2000 mm	225 x Sqrt (L) µm, where L in m
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape / PI Tape (L.C.: 0.1 mm / 0.01 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 50 m	225 x sqrt (L) µm, where L in m
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Block Set, Long Slip Gauges, Plunger Dial Gauge & Comparator Stand by Comparison Method	> 1000 mm to 1475 mm	10 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Block Set, Long Slip Gauges, Plunger Dial Gauge & Comparator Stand by Comparison Method	> 150 mm to 500 mm	3 µm

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121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Block Set, Long Slip Gauges, Plunger Dial Gauge & Comparator Stand by Comparison Method	> 500 mm to 1000 mm	5.6 µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Block Set, Long Slip Gauges, Plunger Dial Gauge & Comparator Stand by Comparison Method	25 mm to 150 mm	1.5 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.1 mm)	Using Slip Gauge Set by Comparison Method	Up to 200 mm	78.5 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Slip Gauge Set, Comparator Stand & Plunger type Dial Gauge by Comparison Method	3 mm to 200 mm	3.5 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Comparison Method	Up to 50 mm	35 µm
126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Right Angle	Using Profile Projector by Comparison Method	90°	9 minutes of Arc

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127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauge Set by Comparison Method	2 mm to 150 mm	2 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level (L.C.: 0.01 mm/m)	Using Dial Gauge & Tilting Fixture by Comparison Method	1 mm/m	4 µm/m
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foil	Using Plunger Dial Gauge & Comparator Stand by Comparison Method	10 µm to 2000 µm	2 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Wire Gauge	Using Profile Projector by Comparison Method	0.19 mm to 7.62 mm	10 µm
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale (L.C.: 0.5 mm)	Using Tape & Scale Calibrator by Comparison Method	0 to 1000 mm	225 µm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Gauge - Length (L.C.: 0.1 mm)	Using Profile Projector by Comparison Method	0 to 15 mm	57 µm

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133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template / Inspection Jig & Fixture - Linear	Using Profile Projector by Comparison Method	0 to 200 mm	10 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by Comparison Method	25 µm to 4 mm	4 µm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Caliper by Comparison Method	4 mm to 125 mm	31 µm
136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Flank Angle	Using Profile Projector by Comparison Method	55° & 60°	9 minutes of Arc
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Pitch	Using Profile Projector by Comparison Method	Up to 7 mm	13.4 µm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge - Effective Diameter	Using Floating Carriage Diameter Measuring Machine, Cylindrical Setting Standards and Thread Measuring Wire by Comparison Method	2 mm to 100 mm	4 µm

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139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.01 mm)	Using Slip Gauge & Long Slip Gauges by Comparison Method	0 to 100 mm	11 µm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.1 mm)	Using Slip Gauge & Long Slip Gauges by Comparison Method	0 mm to 300 mm	78.9 µm
141	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester - Mechanical / Electrical (L.C.: 0.0002 mm)	Using Slip Gauge Set & Digital Plunger Gauge by Comparison Method	0 to 25 mm	0.5 µm
142	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe with Stand (L.C.: 0.0001 mm)	Using Gauge Block Set by Comparison Method	0 to 25 mm	0.5 µm
143	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Linear Probe / LVDT (L.C.: 0.001 mm)	Using Slip Gauge, Granite Comparator by Comparison Method	0 to 50 mm	3.6 µm
144	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnification	Using Glass Scale by Comparison Method	Up to 1000 X	1.1 %
145	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Glass Scale & Caliper by Comparison Method	10 X to 100 X	0.3 %
146	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Angular (L..C.: 1 sec)	Using Angular Scale by Comparison Method	0 ° to 360 °	3 minutes of Arc

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147	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Linear (L.C.: 0.001 mm)	Using Glass Scale by Comparison Method	0 to 200 mm	3 µm
148	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibrator (L.C.: 0.001 mm)	Using Slip Gauge Set & Long Slip Gauges by Comparison Method	0 to 1000 mm	16 µm
149	MECHANICAL-DUROMETER	Rubber Hardness Tester - Shore A	Using Dial Calibration Tester by Depth Indenter as per ASTM D - 2240	Shore A	0.95 Shore A
150	MECHANICAL-DUROMETER	Rubber Hardness Tester - Shore D	Using Dial Calibration Tester by Depth Indenter as per ASTM D - 2240	Shore D	0.95 Shore D
151	MECHANICAL-HARDNESS TESTING MACHINES	Indentation Measuring system of Brinell / Vickers Hardness Tester	Using Glass Scale by Comparison Method as per IS 1500 (Part - 2) : 2021, IS 1501 (Part - 2) : 2020, ASTM E - 10 : 2023, ASTM E - 92 : 2023	0 to 7 mm	6.13 µm
152	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure - Pressure Gauge, Barometer, Manometer, Transmitter (Analog / Digital)	Using Digital Pressure Gauge with Digital multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	300 mbar (abs) to 1164 mbar (abs)	0.85 mbar (abs)

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153	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer with Indicator, Pressure Switch	Using Digital Pressure Gauge with Digital multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	0 to 1000 bar	0.61 bar
154	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer with Indicator, Pressure Switch	Using Digital Pressure Gauge with Digital multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	0 to 70 bar	0.25 bar
155	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure Gauge (Digital / Analog), Pressure Transmitter, Pressure Transducer with Indicator, Pressure Switch	Using Digital Pressure Gauge with Digital multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	0 to 700 bar	0.25 bar
156	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Manometer / Magnehalic Gauge / Pressure Gauge (Analog / Digital), Pressure Transmitter	Using Digital Pressure Gauge, MFC & Pressure Pump by Comparison Method as per DKD R 6 - 1	(-) 50 mbar to 0	0.06 mbar
157	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Manometer / Magnehalic Gauge / Pressure Gauge (Analog / Digital), Pressure Transmitter	Using Digital Pressure Gauge, MFC & Pressure Pump by Comparison Method as per DKD R 6 - 1	0 to 50 mbar	0.05 mbar

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158	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer with Indicator, Pressure Switch	Using Digital Pressure Gauge with Digital multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	0 to 35 bar	0.014 bar
159	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Pressure - Pressure Gauge (Digital / Analog), Pressure Transmitter, Pressure Transducer with Indicator, Pressure Switch	Using Digital Pressure Gauge with Digital multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	(-) 0.85 bar to 0	0.012 bar
160	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench {Type - I (Class A, B, C) & Type - II (Class A, B, C, E, G)}	Using Torque Transducers with Indicator by Comparison Method as per ISO 6789 - 2 : 2017	200 Nm to 2000 Nm	1.66 %
161	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench {Type - I (Class A, B, C, D, E) & Type - II (Class A, B, C, D, E)}	Using Torque Transducers with Indicator by Comparison Method as per ISO 6789 - 2 : 2017	0.2 Nm to 20 Nm	2.45 %
162	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench {Type - I (Class A, B, C, D, E) & Type - II (Class A, B, C, D, E, F, G)}	Using Torque Transducers with Indicator by Comparison Method as per ISO 6789 - 2 : 2017	20 Nm to 200 Nm	1.55 %

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163	MECHANICAL-VOLUME	Butyrometer	Using Semi Micro Balance (Readability: 0.01 mg), Mercury of Known Density by Gravimetric Method based on ISO 4787 : 2021	0 % to 90 %	1 %
164	MECHANICAL-VOLUME	Measuring Cylinder / Volumetric Flask / Conical Flask / Beaker	Using Precision Balance (Readability 1 mg), Thermometer & Water of Known Density by Gravimetric Method based on ISO 4787 : 2021	100 ml to 1000 ml	0.15 ml
165	MECHANICAL-VOLUME	Measuring Cylinder / Volumetric Flask / Conical Flask / Beaker	Using Precision Balance (Readability: 1 mg), Thermometer & Water of Known Density by Gravimetric Method based on ISO 4787 : 2021	1000 ml to 2000 ml	0.11 ml
166	MECHANICAL-VOLUME	Measuring Cylinder / Volumetric Flask / Conical Flask / Beaker	Using Precision Balance (Readability: 10 mg), Thermometer & Water of Known Density by Gravimetric Method based on ISO 4787 : 2021	2000 ml to 5000 ml	2 ml

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167	MECHANICAL-VOLUME	Measuring Cylinder / Volumetric Flask / Conical Flask / Beaker / Pipette (Volumetric / Graduated) / Burette	Using Semi Micro Balance (Readability: 0.01 mg), Thermometer & Water of Known Density by Gravimetric Method based on ISO 4787 : 2021	10 ml to 100 ml	25 µl
168	MECHANICAL-VOLUME	Measuring Cylinder / Volumetric Flask / Conical Flask / Pipette (Volumetric / Graduated) / Burette	Using Semi Micro Balance (Readability 0.01 mg), Thermometer & Water of Known Density by Gravimetric Method based on ISO 4787 : 2021	1 ml to 10 ml	3 µl
169	MECHANICAL-VOLUME	Micro Pipette	Using Micro Balance (Readability 0.001 mg), Thermometer & Water of Known Density by Gravimetric Method based on ISO 8655 - 6 : 2022	0.1 µl to 1 µl	0.07 µl
170	MECHANICAL-VOLUME	Micro Pipette	Using Micro Balance (Readability 0.001 mg), Thermometer & Water of Known Density by Gravimetric Method based on ISO 8655 - 6 : 2022	1 µl to 20 µl	0.11 ul

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171	MECHANICAL-VOLUME	Micro Pipette	Using Semi Micro Balance (Readability 0.01 mg), Thermometer & Water of Known Density by Gravimetric Method based on ISO 8655 - 6 : 2022	100 µl to 1000 µl	0.69 µl
172	MECHANICAL-VOLUME	Micro Pipette	Using Semi Micro Balance (Readability 0.01 mg), Thermometer & Water of Known Density by Gravimetric Method based on ISO 8655 - 6 : 2022	20 µl to 100 µl	0.58 µl
173	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.0001 mg & Coarser	Using Standard Weights of E1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 6.1 g	0.006 mg
174	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.001 mg & Coarser	Using Standard Weights of E1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 100 g	0.021 mg
175	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.01 mg & Coarser	Using Standard Weights of E1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 200 g	0.06 mg
176	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - II, Readability: 1 mg & Coarser	Using Standard Weights of E2 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 1000 g	2.4 mg

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177	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - II, Readability: 10 mg & Coarser	Using Standard Weights of F1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 6 kg	14 mg
178	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - III, Readability: 1 g & Coarser	Using Standard Weights of F1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 50 kg	2.4 g
179	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - IV, Readability: 5 g & Coarser	Using Standard Weights of F1 / F2 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 100 kg	12.3 g
180	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - IV, Readability: 50 g & Coarser	Using Standard Weights of M1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 500 kg	63 g
181	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - IV, Readability:20 g & Coarser	Using Standard Weights of M1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 200 kg	47 g
182	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class III, Readability: 100 mg & Coarser	Using Standard Weights of F1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 30 kg	100 mg
183	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Accuracy Class - IV, Readability: 200 g	Using Weights of Accuracy F1 & M1 Class by Comparison Method as per OIML R 76 - 1	0 to 1000 kg	600 g

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184	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Accuracy Class - IV, Readability: 200 g	Using Standard Weights of M1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 2000 kg	1 kg
185	MECHANICAL-WEIGHTS	Accuracy Cass E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator/Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	20 g	0.02 mg
186	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	1 g	0.003 mg
187	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator/Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	1 mg	0.002 mg
188	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	10 g	0.01 mg

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189	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator/Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	10 mg	0.002 mg
190	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	100 g	0.03 mg
191	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	100 mg	0.002 mg
192	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance as per OIML R 111 by ABBA Methodby Substitution Method (ABBA Cycle) as per OIML R 111 - 1	2 g	0.005 mg

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193	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator/Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	2 mg	0.002 mg
194	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	20 mg	0.002 mg
195	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator/Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	200 g	0.04 mg
196	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	200 mg	0.002 mg

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197	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	5 g	0.006 mg
198	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator/Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	5 mg	0.002 mg
199	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	50 g	0.02 mg
200	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	50 mg	0.002 mg

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201	MECHANICAL-WEIGHTS	Accuracy Class E2and Coarser	Using E1 Accuracy Class Standard Weights & Mass Comparator / Balance by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	500 mg	0.003 mg
202	MECHANICAL-WEIGHTS	Accuracy Class F1 and Coarser	Using E1 & E2 Accuracy Class Weights with Digital Balance (Readability: 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	1000 g	1.1 mg
203	MECHANICAL-WEIGHTS	Accuracy Class F1 and Coarser	Using E1 Accuracy Class Weights with Digital Balance (Readability: 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	500 g	1 mg
204	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	Using F1,E2 & E1 Accuracy Class Weights with Digital Balance (Readability: 0.001 g) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	2000 g	1.4 mg

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205	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	Using F1 Accuracy Class Weights with Digital Balance (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	20000 g	94 mg
206	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	Using F1 Accuracy Class Weights with Digital Balance (Readability: 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	5000 g	11 mg
207	MECHANICAL-WEIGHTS	Accuracy Class M1 and Coarser	Using F1 Accuracy Class Weights with Digital Balance (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R 111 - 1	10000 g	94 mg
208	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Humidity Calibrator / Generator - Single Position Calibration	Using Temperature & RH Sensor with Indicator by Comparison Method	10 % rh to 95 % rh @ 25 °C	1.2 % rh
209	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Humidity Calibrator / Generator - Single Position Calibration	Using Temperature & RH Sensor with Indicator by Comparison Method	10 °C to 50 °C @ 50 % rh	0.5 °C

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210	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator, Data Logger with External Sensor / Internal Sensor, Thermo Hygrometer, Temperature & Humidity Sensor with Indicator	Using Temperature & RH Sensor with Indicator & Temperature & Humidity Generator by Comparison Method	0 °C to 50 °C @ 50 % rh	0.32 °C
211	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator, Data Logger with External Sensor / Internal Sensor, Thermo Hygrometer, Temperature & Humidity Sensor with Indicator	Using Temperature & RH Sensor with Indicator & Temperature & Humidity Generator by Comparison Method	10 % rh to 95 % rh @ 25 °C	0.98 % rh
212	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator, Data Logger with External Sensor / Internal Sensor, Thermo Hygrometer, Temperature & Humidity Sensor with Indicator	Using Temperature & RH Sensor with Indicator & Temperature & Humidity Generator by Comparison Method	10 °C to 50 °C @ 50 % rh	0.4 °C
213	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Humidity Calibrator / Generator - Single Position Calibration	Using Temperature & RH Sensor with Indicator by Comparison Method	0 °C to 50 °C @ 50 % rh	0.32 °C
214	THERMAL-TEMPERATURE	Data Logger with External or Internal Sensor, Thermo-Hygrometer with Sensor	Using RTD Sensor with Indicator and Temperature Generating Chamber by Comparison Method	(-) 25 °C to 50 °C	0.4 °C

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215	THERMAL-TEMPERATURE	Liquid In Glass Thermometer	Using RTD Sensor with Indicator & Liquid Bath by Comparison Method	(-) 80 °C to 50 °C	0.39 °C
216	THERMAL-TEMPERATURE	Liquid In Glass Thermometer	Using RTD Sensor with Indicator & Liquid Bath by Comparison Method	50 °C to 250 °C	0.34 °C
217	THERMAL-TEMPERATURE	Non Contact Thermometer, Infrared Thermometers, Pyrometer, Thermal Imager (Temperature) - Non Medical Purpose Only	Using Pyrometer with Black Body Source (Emissivity: 0.95) by Comparison Method	> 50 °C to 500 °C	3.6 °C
218	THERMAL-TEMPERATURE	Non Contact Thermometer, Infrared Thermometers, Pyrometer, Thermal Imager (Temperature) - Non Medical Purpose Only	Using Pyrometer with Black Body Source (Emissivity 0.95) by Comparison Method	25 °C to 50 °C	3 °C
219	THERMAL-TEMPERATURE	Oven, Furnace, Incubator, Chamber, Autoclave, BOD - Multi Position Calibration	Using Multi Channel Data Logger with RTD Sensors (Minimum 09 Sensors) by Comparison Method	0 °C to 300 °C	2.5 °C
220	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge	Using RTD Sensor with Indicator, Oil Bath by Comparison Method	50 °C to 250 °C	0.25 °C

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221	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Datalogger with Internal or External Sensor, Temperature Transducer / Transmitter	Using RTD Sensor with indicator, Dry Bath & Digital Multimeter by Comparison Method	(-) 35 °C to 50 °C	0.11 °C
222	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Temperature Transducer / Transmitter	Using SSPRT Sensor with Indicator, Digital multimeter & Liquid Nitrogen Bath by Comparison Method	(-) 196 °C	0.19 °C
223	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Temperature Transducer / Transmitter	Using RTD Sensor with Indicator, Digital Multimeter & Liquid Bath by Comparison Method	(-) 80 °C to 50 °C	0.21 °C

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224	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Temperature Transducer / Transmitter	Using RTD Sensor with Indicator, Digital Multimeter & Dry Bath by Comparison Method	250 °C to 400 °C	0.4 °C
225	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Chamber / Dry Block / Deep Freezer / Refrigerator - Single Position Calibration	Using RTD Sensor with Indicator by Comparison Method	(-) 80 °C to 0 °C	0.19 °C
226	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Chamber / Industrial Incubator/ Liquid Bath / Dry Block / Oven / Autoclave / Refrigerator / Oil Bath, COD/ BOD Incubator - Single Position Calibration	Using RTD Sensor with Indicator by Comparison Method	0 °C to 300 °C	0.16 °C
227	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Furnace / Oven / Muffle Furnace - Single Position Calibration	Using S - Type Thermocouple with Temperature Indicator by Comparison Method	300 °C to 1200 °C	2.3 °C

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228	THERMAL-TEMPERATURE	Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge	Using S - Type Thermocouple with Indicator, Universal Calibrator & Dry Block Furnace by Comparison Method	400 °C to 1200 °C	2.02 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 µA to 100 mA	0.1 % to 0.16 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mA to 10 A	0.16 % to 0.1 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 27 kV	5.61 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.1 % to 0.12 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digital Multimeter by Direct Method	100 mV to 1000 V	0.12 % to 0.08 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Digit Multi Function Calibrator by Direct Method	0.2 mA to 2000 mA	0.42 % to 0.35 %

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Multi Function Calibrator & 100 Turn Coil by Direct Method	10 A to 1000 A	0.47 % to 1.28 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Digit Multi Function Calibrator by Direct Method	2000 mA to 10 A	0.35 % to 0.47 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Digit Multi Function Calibrator by Direct Method	10 mV to 100 mV	0.64 % to 0.22 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Digit Multi Function Calibrator by Direct Method	100 mV to 1000 V	0.22 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	100 pF to 100 µF	1.27 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	0.1 mH to 10 H	2.3 % to 1.2 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ DMM by Direct Method	1 nF to 100 µF	1.2 %

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14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 µA to 100 mA	0.1 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digital Multimeter by Direct Method	100 mA to 10 A	0.1 % to 0.18 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with DMM by Direct Method	1 kV to 16 kV	3.6 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 5 kV	3.7 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	1 mV to 100 mV	0.23 % to 0.009 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 mV to 1000 V	0.009 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire) @ (500 V & 1000 V)	Using 6½ Digital Multimeter by Direct Method	100 Mohm to 1 Gohm	0.42 % to 0.29 %

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21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digital Multimeter by Direct Method	1 ohm to 100 Mohm	0.16 % to 0.42 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ DMM & Multi Function by VI Method	100 µohm to 1 ohm	0.08 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Conductivity Meter (Cell Constants 0.1,1 & 10)	Using Resistance Box by Direct Method	1 µs/cm (1 Mohm) to 200 ms/cm (5 ohm)	1.33 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method	0.2 mA to 2000 mA	0.34 % to 0.23 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator & 100 Turn Coil by Direct Method	10 A to 1000 A	1.9 % to 1.06 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Digit Multifunction Calibrator by Direct Method	2000 mA to 10 A	0.23 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction Calibrator by Direct Method	1 mV to 100 mV	0.88 % to 0.13 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Digit Multifunction Calibrator by Direct Method	100 mV to 1000 V	0.13 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage for pH Meter	Using Universal Calibrator by Direct Method	(-) 416.9 mV (14 pH) to 416.9 mV (0 pH)	0.23 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ 5000 V	Using High Resistance Box by Direct Method	1 Gohm to 1000 Gohm	2.5 % to 9.6 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4 Wire)	Using Micro Resistance Box by Direct Method	100 µohm to 1 ohm	6.75 % to 0.24 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ (500 V & 1000 V)	Using Decade Resistance Box by Direct Method	10 Mohm to 1 Gohm	0.12 % to 2.37 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 kohm to 10 Mohm	0.5 %
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 ohm to 1 kohm	0.67 % to 0.5 %

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35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B - Type Thermocouple	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.51 °C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 250 °C to 1000 °C	0.51 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J - Type Thermocouple	Using Universal Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.35 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K - Type Thermocouple	Using Universal Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.7 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N - Type Thermocouple	Using Universal Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.22 °C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R - Type Thermocouple	Using Universal Calibrator by Direct Method	0 to 1767 °C	0.7 °C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Universal Calibrator by Direct Method	(-) 200 °C to 800 °C	0.3 °C

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42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using Universal Calibrator by Direct Method	0 °C to 1767 °C	0.8 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T - Type Thermocouple	Using Universal Calibrator by Direct Method	(-) 200 °C to 400 °C	0.9 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Multi Function Calibrator by Direct Method	600 °C to 1800 °C	1.51 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Multifunction Calibrator by Direct Method	(-) 250 °C to 1000 °C	0.51 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.35 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Universal Calibrator by Direct Method	(-) 150 °C to 1350 °C	0.5 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Universal Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.46 °C

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49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Universal Calibrator by Direct Method	0 °C to 1767 °C	1.14 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multi Function Calibrator by Direct Method	(-) 200 °C to 800 °C	0.4 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Universal Calibrator by Direct Method	0 °C to 1767 °C	1.14 °C
52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Universal Calibrator by Direct Method	(-) 200 °C to 400 °C	0.35 °C
53	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ DMM by Direct Method	1 kHz to 10 kHz	0.018 %
54	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digital Multimeter by Direct Method	45 Hz to 1000 Hz	0.13 % to 0.013 %
55	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Timer by Comparison Method	1 s to 86400 s	0.15 s to 10 s

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56	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5½ Digit Multi Function Calibrator by Direct Method	45 Hz to 999.9 Hz	0.31 % to 0.065 %
57	FLUID FLOW-FLOW MEASURING DEVICES	Air Flow Rate (High Volume Sampler / Respirable Dust Sampler / PM 10 Sampler) - Air Medium	Using Top Loading Calibrator by Comparison Method	0.6 m^3/min to 1.5 m^3/min	3.1 %
58	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Flow Meter / Rotameter / Dry Gas Meter) - Air Medium	Using Air Flow Calibrator by Comparison Method	0.5 lpm to 100 lpm	2.4 %
59	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (Flow Meter / Rotameter / Dry Gas Meter) - Air Medium	Using Air Flow Calibrator by Comparison Method	1 cc/min to 500 cc/min	2.2 %
60	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate - (Liquid Flow Meter / Water Flow Meter)	Using Hand Held Clamp on type Ultrasonic Flow Meter by Comparison Method	1 m^3/hr to 185 m^3/hr	1.8 %
61	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source (Non - Contact Type)	Using Tachometer by Direct Method	10 rpm to 100 rpm	0.64 rpm
62	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source (Non - Contact Type)	Using Tachometer by Direct Method	100 rpm to 1000 rpm	2.4 rpm
63	MECHANICAL-ACCELERATION AND SPEED	Centrifuge, RPM Source (Non - Contact Type)	Using Tachometer by Direct Method	1000 rpm to 8000 rpm	3.15 rpm
64	MECHANICAL-ACCELERATION AND SPEED	RPM Source (Non - Contact Type)	Using Tachometer by Direct Method	8000 rpm to 90000 rpm	13.6 rpm

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65	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using RPM Source & Tachometer by Comparison Method	> 100 rpm to 1000 rpm	2.4 rpm
66	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using RPM Source & Tachometer by Comparison Method	> 1000 rpm to 8000 rpm	3.33 rpm
67	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using RPM Source & Tachometer by Comparison Method	10 rpm to 100 rpm	0.36 rpm
68	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non - Contact Type)	Using RPM Source & Tachometer by Comparison Method	> 100 rpm to 1000 rpm	2.4 rpm
69	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non - Contact Type)	Using RPM Source & Tachometer by Comparison Method	> 1000 rpm to 8000 rpm	3.15 rpm
70	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non - Contact Type)	Using RPM Source & Tachometer by Comparison Method	10 rpm to 100 rpm	0.36 rpm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Long Slip Gauge Set by Comparison Method	0 to 2000 mm	40 µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer - Mechanical / Electrical (L.C.: 0.001 mm)	Using Extensometer Fixture and Digital Plunger Gauge by Comparison Method	0 to 25 mm	4 µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm)	Using Long Slip Gauge Set & Surface Plate by Comparison Method	0 to 1000 mm	14 µm

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74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Spirit Level & Dial by Comparison Method	Up to 3000 mm x 3000 mm	1.6 x sqrt {(L+W)/125} µm, where (L and W) are in mm
75	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope - Magnification	Using Glass Scale by Comparison Method	Up to 1000 X	1.1 %
76	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Glass Scale & Caliper by Comparison Method	10 X to 100 X	0.3 %
77	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Angular (L..C.: 1 sec)	Using Angular Scale by Comparison Method	0 ° to 360 °	3 minutes of Arc
78	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Linear (L.C.: 0.001 mm)	Using Glass Scale by Comparison Method	0 to 200 mm	3 µm
79	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Calibrator (L.C.: 0.001 mm)	Using Slip Gauge Set & Long Slip Gauges by Comparison Method	0 to 1000 mm	16 µm
80	MECHANICAL-HARDNESS TESTING MACHINES	Indentation Measuring system of Brinell / Vickers Hardness Tester	Using Glass Scale by Comparison Method as per IS 1500 (Part - 2) : 2021, IS 1501 (Part - 2) : 2020, ASTM E - 10 : 2023, ASTM E - 92 : 2023	0 to 7 mm	6.13 µm

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81	MECHANICAL-HARDNESS TESTING MACHINES	Test Force Measurement of Rockwell, Rockwell Superficial, Brinell, Vickers, Micro Vickers Hardness Machine	Using Load Cell with Indicator by Direct Method as per IS 1586 - 2 : 2018, ISO 6508 - 2 : 2015, IS 1500 - 2 : 2021, ISO 6506 - 2 : 2017, IS 1501 - 2 : 2020, ISO 6507 - 2 : 2018	5 N to 29421 N	0.51 %
82	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1500 - 2 : 2021 & ASTM E - 10 : 2023	HBW 10/3000	1.7 %
83	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1500 - 2 : 2021 & ASTM E - 10 : 2023	HBW 2.5/187.5	2 %
84	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1500 - 2 : 2021 & ASTM E - 10 : 2023	HBW 5/750	1.7 %
85	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1586 - 2 : 2018 & ASTM E - 18 : 2022	HRA	0.83 HRA

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86	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1586 - 2 : 2018 & ASTM E - 18 : 2022	HRBW	1.13 HRBW
87	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1586 - 2 : 2018 & ASTM E - 18 : 2022	HRC	0.71 HRC
88	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501 - 2 : 2020, ASTM E - 92 : 2023	HV 10	2.8 %
89	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Testing Blocks by Indirect Method as per IS 1501 - 2 : 2020, ASTM E - 92 : 2023	HV 30	2.1 %
90	MECHANICAL-IMPACT TESTING MACHINE	Charpy Impact Testing Machine	Using Impact Testing Kit by Direct and Indirect Method as per IS 15420 : 2021, ISO 148 - 2 : 2016, ASTM E - 23 : 2024	0 to 400 J	0.6 %
91	MECHANICAL-IMPACT TESTING MACHINE	Charpy Plastic Impact Testing Machine	Using Impact Testing Kit as per ISO 13802 : 2015, ASTM D 6110 : 2018	0 to 50 J	0.5 %

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92	MECHANICAL-IMPACT TESTING MACHINE	Izod Impact Testing Machine	Using Impact Testing Kit as per BS 131 (Part - 4) : 1961, ASTM E - 23 : 2024	0 to 170 J	0.6 %
93	MECHANICAL-IMPACT TESTING MACHINE	Izod Plastic Impact Testing Machine	Using Impact Testing Kit as per ISO 13802 : 2015, ASTM D - 256 : 2023	0 to 50 J	0.5 %
94	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure - Pressure Gauge, Barometer, Manometer, Transmitter (Analog / Digital)	Using Digital Pressure Gauge with Digital multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	300 mbar (abs) to 1164 mbar (abs)	0.85 mbar (abs)
95	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer with Indicator, Pressure Switch	Using Digital Pressure Gauge with Digital multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	0 to 1000 bar	0.61 bar
96	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer with Indicator, Pressure Switch	Using Digital Pressure Gauge with Digital multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	0 to 70 bar	0.25 bar

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97	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Pressure Gauge (Digital / Analog), Pressure Transmitter, Pressure Transducer with Indicator, Pressure Switch	Using Digital Pressure Gauge with Digital multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	0 to 700 bar	0.25 bar
98	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Manometer / Magnehalic Gauge / Pressure Gauge (Analog / Digital), Pressure Transmitter	Using Digital Pressure Gauge, MFC & Pressure Pump by Comparison Method as per DKD R 6 - 1	(-) 50 mbar to 0	0.06 mbar
99	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Manometer / Magnehalic Gauge / Pressure Gauge (Analog / Digital), Pressure Transmitter	Using Digital Pressure Gauge, MFC & Pressure Pump by Comparison Method as per DKD R 6 - 1	0 to 50 mbar	0.05 mbar
100	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Pressure Gauge (Digital / Analog) Pressure Transmitter, Pressure Transducer with Indicator, Pressure Switch	Using Digital Pressure Gauge with Digital multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	0 to 35 bar	0.014 bar
101	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Pressure - Pressure Gauge (Digital / Analog), Pressure Transmitter, Pressure Transducer with Indicator, Pressure Switch	Using Digital Pressure Gauge with Digital multimeter & Pressure Comparator by Comparison Method as per DKD R 6 - 1	(-) 0.85 bar to 0	0.012 bar

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102	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni - axial Static Testing Machine - UTM, HTM, CTM (Compression Mode)	Using Load Cell with Indicators by Comparison Method as per ASTM E4	2 kN to 1000 kN	0.5 %
103	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni - axial Static Testing Machine - UTM, HTM, CTM (Compression Mode)	Using Load Cell with Indicators by Comparison Method as per IS 1828 (Part - 1) : 2022	200 N to 2000 kN	0.4 %
104	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni - axial Static Testing Machine - UTM, HTM, CTM (Compression Mode)	Using Load Cell with Indicators by Comparison Method as per IS 1828 (Part - 1) : 2022	2000 kN to 3000 kN	0.51 %
105	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni - axial Static Testing Machine - UTM, HTM, CTM (Compression Mode)	Using Load Cell with Indicators by Comparison Method as per IS 1828 (Part - 1) : 2022	5 N to 200 N	0.5 %
106	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni - axial Static Testing Machine - UTM, HTM, CTM (Tension Mode)	Using Load Cell with Indicators by Comparison Method as per IS 1828 (Part - 1) : 2022	5 N to 200 N	0.54 %
107	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni - axial Static Testing Machine - UTM, HTM, TTM (Tension Mode)	Using Load Cell with Indicators by Comparison Method as per IS 1828 (Part - 1) : 2022	200 N to 50 kN	0.5 %

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108	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.0001 mg & Coarser	Using Standard Weights of E1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 6.1 g	0.006 mg
109	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.001 mg & Coarser	Using Standard Weights of E1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 100 g	0.021 mg
110	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - I, Readability: 0.01 mg & Coarser	Using Standard Weights of E1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 200 g	0.06 mg
111	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - II, Readability: 1 mg & Coarser	Using Standard Weights of E2 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 1000 g	2.4 mg
112	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - II, Readability: 10 mg & Coarser	Using Standard Weights of F1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 6 kg	14 mg
113	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - III, Readability: 1 g & Coarser	Using Standard Weights of F1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 50 kg	2.4 g
114	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - IV, Readability: 5 g & Coarser	Using Standard Weights of F1 / F2 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 100 kg	12.3 g

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115	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - IV, Readability: 50 g & Coarser	Using Standard Weights of M1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 500 kg	63 g
116	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class - IV, Readability:20 g & Coarser	Using Standard Weights of M1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 200 kg	47 g
117	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance, Accuracy Class III, Readability: 100 mg & Coarser	Using Standard Weights of F1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 30 kg	100 mg
118	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Accuracy Class - IV, Readability: 200 g	Using Weights of Accuracy F1 & M1 Class by Comparison Method as per OIML R 76 - 1	0 to 1000 kg	600 g
119	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Accuracy Class - IV, Readability: 200 g	Using Standard Weights of M1 Accuracy Class by Comparison Method as per OIML R 76 - 1	0 to 2000 kg	1 kg
120	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber / Environmental Chamber - Multi Position Calibration	Using Temp & RH Data Logger (Minimum 09 Sensors) by Comparison Method	20 % rh to 95 % rh 25 °C	4 % rh
121	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Humidity Calibrator / Generator - Single Position Calibration	Using Temperature & RH Sensor with Indicator by Comparison Method	10 % rh to 95 % rh @ 25 °C	1.2 % rh

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122	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Humidity Calibrator / Generator - Single Position Calibration	Using Temperature & RH Sensor with Indicator by Comparison Method	10 °C to 50 °C @ 50 % rh	0.5 °C
123	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator, Data Logger with External Sensor / Internal Sensor, Thermo Hygrometer, Temperature & Humidity Sensor with Indicator	Using Temperature & RH Sensor with Indicator & Temperature & Humidity Generator by Comparison Method	0 °C to 50 °C @ 50 % rh	0.32 °C
124	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator, Data Logger with External Sensor / Internal Sensor, Thermo Hygrometer, Temperature & Humidity Sensor with Indicator	Using Temperature & RH Sensor with Indicator & Temperature & Humidity Generator by Comparison Method	10 % rh to 95 % rh @ 25 °C	0.98 % rh
125	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator, Data Logger with External Sensor / Internal Sensor, Thermo Hygrometer, Temperature & Humidity Sensor with Indicator	Using Temperature & RH Sensor with Indicator & Temperature & Humidity Generator by Comparison Method	10 °C to 50 °C @ 50 % rh	0.4 °C
126	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with Sensor of Humidity Calibrator / Generator - Single Position Calibration	Using Temperature & RH Sensor with Indicator by Comparison Method	0 °C to 50 °C @ 50 % rh	0.32 °C

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127	THERMAL-TEMPERATURE	Data Logger with External or Internal Sensor, Thermo-Hygrometer with Sensor	Using RTD Sensor with Indicator and Temperature Generating Chamber by Comparison Method	(-) 25 °C to 50 °C	0.4 °C
128	THERMAL-TEMPERATURE	Deep Freezer, Refrigerator, Chamber, Generator - Multi Position Calibration	Using Multi Channel Data Logger with RTD Sensors (Minimum 09 Sensors) by Comparison Method	(-) 80 °C to 0 °C	2 °C
129	THERMAL-TEMPERATURE	Furnace - Multi Position Calibration	Using Multi Channel Data Logger with N Type Sensors (Minimum 09 Sensors) by Comparison Method	300 °C to 1000 °C	9.34 °C
130	THERMAL-TEMPERATURE	Liquid In Glass Thermometer	Using RTD Sensor with Indicator & Liquid Bath by Comparison Method	50 °C to 250 °C	0.34 °C
131	THERMAL-TEMPERATURE	Non Contact Thermometer, Infrared Thermometers, Pyrometer, Thermal Imager (Temperature) - Non Medical Purpose Only	Using Pyrometer with Black Body Source (Emissivity: 0.95) by Comparison Method	> 50 °C to 500 °C	3.6 °C

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132	THERMAL-TEMPERATURE	Non Contact Thermometer, Infrared Thermometers, Pyrometer, Thermal Imager (Temperature) - Non Medical Purpose Only	Using Pyrometer with Black Body Source (Emissivity 0.95) by Comparison Method	25 °C to 50 °C	3 °C
133	THERMAL-TEMPERATURE	Oven, Furnace, Incubator, Chamber, Autoclave, BOD - Multi Position Calibration	Using Multi Channel Data Logger with RTD Sensors (Minimum 09 Sensors) by Comparison Method	0 °C to 300 °C	2.5 °C
134	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge	Using RTD Sensor with Indicator, Oil Bath by Comparison Method	50 °C to 250 °C	0.25 °C
135	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Datalogger with Internal or External Sensor, Temperature Transducer / Transmitter	Using RTD Sensor with indicator, Dry Bath & Digital Multimeter by Comparison Method	(-) 35 °C to 50 °C	0.11 °C

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136	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Temperature Transducer / Transmitter	Using SSPRT Sensor with Indicator, Digital multimeter & Liquid Nitrogen Bath by Comparison Method	(-) 196 °C	0.19 °C
137	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge, Temperature Transducer / Transmitter	Using RTD Sensor with Indicator, Digital Multimeter & Dry Bath by Comparison Method	250 °C to 400 °C	0.4 °C
138	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Chamber / Dry Block / Deep Freezer / Refrigerator - Single Position Calibration	Using RTD Sensor with Indicator by Comparison Method	(-) 80 °C to 0 °C	0.19 °C
139	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Chamber / Industrial Incubator/ Liquid Bath / Dry Block / Oven / Autoclave / Refrigerator / Oil Bath, COD/ BOD Incubator - Single Position Calibration	Using RTD Sensor with Indicator by Comparison Method	0 °C to 300 °C	0.16 °C

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140	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Furnace / Oven / Muffle Furnace - Single Position Calibration	Using S - Type Thermocouple with Temperature Indicator by Comparison Method	300 °C to 1200 °C	2.3 °C
141	THERMAL-TEMPERATURE	Thermocouple with or without Indicator / Recorder / Controller, Digital Thermometer, Temperature Gauge	Using S - Type Thermocouple with Indicator, Universal Calibrator & Dry Block Furnace by Comparison Method	400 °C to 1200 °C	2.02 °C

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