National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

RAJKOT METLAB SERVICES 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

RAJKOT LAB GATE, PLOT NO.29+30, NH 27, GONDAL ROAD, RAJKOT, GUJARAT, INDIA

in the field of

CALIBRATION

Certificate Number: CC-4283

Issue Date: 14/02/2025 **Valid Until:** 13/02/2029

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: Rajkot Metlab Services LLP

Signed for and on behalf of NABL

Anita Rani
Director

N. Venkateswaran
Chief Executive Officer

SCOPE OF ACCREDITATION

Laboratory Name :	RAJKOT METLAB SERVICES LLP, RAJKOT LAB GATE, PLOT NO.29+30, NH 27, GONDAL ROAD, RAJKOT, GUJARAT, 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 Current @ 50 Hz to 1 kHz	Using 6½ DMM by Direct Method	1 A to 10 A	0.67 % to 0.66 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ DMM by Direct Method	100 µA to 1 A	0.3 % to 0.67 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ DMM by Direct Method	1 mV to 1000 mV	0.81 % to 0.43 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ DMM by Direct Method	1 V to 750 V	0.43 % to 0.24 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	0.2 mA to 1 A	0.96 % to 0.27 %

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6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	1 A to 9.9 A	0.27 % to 0.3 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	1.78 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	1 mV to 1000 mV	8.13 % to 0.22 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	1 V to 750 V	0.22 %
10	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	1 A to 10 A	0.13 % to 0.29 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM by Direct Method	100 µA to 1 A	0.29 % to 0.13 %

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12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire or 4 Wire)	Using 6½ DMM by Direct Method	1 kohm to 1 Mohm	0.043 % to 0.080 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire or 4 Wire)	Using 6½ DMM by Direct Method	1 Ohm to 1 kohm	0.094 % to 0.043 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire or 4 Wire)	Using 6½ DMM by Direct Method	1 Mohm to 100 Mohm	0.080 % to 0.83 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	1 mV to 1000 mV	0.37 % to 0.019 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM by Direct Method	1 V to 1000 V	0.019 % to 0.0020 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	1 A to 9.9 A	0.29 % to 0.23 %

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18	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	1.51 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	100 µA to 1 A	0.24 % to 0.29 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire or 4 Wire)	Using Decade Resistance Box by Direct Method	1 kohm to 1 Mohm	1.15 % to 0.13 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire or 4 Wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 100 Mohm	0.13 % to 0.58 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire or 4 Wire)	Using Decade Resistance Box by Direct Method	1 Ohm to 1 kohm	0.23 % to 1.15 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Low Resistance Standard by Direct Method	10 µohm	0.75 %

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24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Low Resistance Standard by Direct Method	10 mohm	0.68 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Low Resistance Standard by Direct Method	100 µohm	0.68 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Low Resistance Standard by Direct Method	100 mohm	0.17 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Low Resistance Standard by Direct Method	1000 mohm	0.32 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Low Resistance Standard by Direct Method	50 µohm	1.58 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Low Resistance Standard by Direct Method	1 mohm	0.15 %

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30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	1 mV to 1000 mV	2.72 % to 0.43 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	1 V to 1000 V	0.43 % to 0.12 %
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt 100)	Using Universal Calibrator by Direct Method	(-) 200 °C to 800 °C	0.44 °C
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Universal Calibrator by Direct Method	600 °C to 1800 °C	0.7 °C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.40 °C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.60 °C

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36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.40 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.41 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	0.70 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	0.70 °C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 400 °C	0.41 °C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt 100)	Using Universal Calibrator by Direct Method	(-) 200 °C to 800 °C	0.35 °C

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42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Universal Calibrator by Direct Method	600 °C to 1800 °C	0.62 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.41 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.4 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.42 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.41 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	0.65 °C

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48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Universal Calibrator by Direct Method	0 °C to 1760 °C	0.61 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 400 °C	0.48 °C
50	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ DMM by Direct Method	10 Hz to 50 Hz	0.007 %
51	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ DMM by Direct Method	50 Hz to 10 kHz	0.007 % to 0.008 %
52	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison Method	1 s to 600 s	0.52 s to 0.60 s
53	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison Method	600 s to 86400 s	0.60 s to 7.3 s

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54	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator by Direct Method	10 Hz to 100 Hz	0.12 % to 0.074 %
55	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator by Direct Method	100 Hz to 10 kHz	0.074 % to 0.068 %
56	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator of Centrifuge, RPM Indicator of Rotating Device (for non medical purpose only)	Using Master Non-Contact type Tachometer by Comparison Method	10 rpm to 1000 rpm	1.51 rpm
57	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator of Centrifuge, RPM Indicator of Rotating Device (for non medical purpose only)	Using Master Non-Contact type Tachometer by Comparison Method	1000 rpm to 10000 rpm	4.07 rpm
58	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator of Centrifuge, RPM Indicator of Rotating Device (for non medical purpose only)	Using Master Non-Contact type Tachometer by Comparison Method	10000 rpm to 50000 rpm	17.16 rpm

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59	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Tachometer and RPM Source by Comparison Method	10 rpm to 100 rpm	1.21 rpm
60	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Tachometer and RPM Source by Comparison Method	100 rpm to 5000 rpm	3.46 rpm
61	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Tachometer and RPM Source by Comparison Method	5000 rpm to 10000 rpm	3.46 rpm
62	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Tachometer and RPM Source by Comparison Method	10 rpm to 100 rpm	1.21 rpm
63	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Tachometer and RPM Source by Comparison Method	100 rpm to 1000 rpm	2.56 rpm
64	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Tachometer and RPM Source by Comparison Method	1000 rpm to 5000 rpm	4.01 rpm
65	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Tachometer and RPM Source by Comparison Method	10000 rpm to 50000 rpm	17.29 rpm
66	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Tachometer and RPM Source by Comparison Method	5000 rpm to 10000 rpm	4.08 rpm
67	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Tachometer and RPM Source by Comparison Method	50000 rpm to 99999 rpm	23.32 rpm

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68	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB	0.69 dB
69	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	114 dB	0.69 dB
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector, Combination Set (L.C.: 0.1 °)	Using Angle Gauge Block Set by Comparison Method	0 to 90 °	4.5 second of arc
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (L.C.: 0.001 mm) (Transmission)	Using Dial Calibration Tester & Master Plunger Type Dial Gauge by Direct method	up to 1 mm	6.8 µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier / Digital / Dial) (L.C.: 0.02 mm)	Using Long Slip Gauge Set by Comparison Method	0 to 2000 mm	24.8 µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier / Digital / Dial) (L.C.: 0.01 mm)	Using Caliper Checker by Comparison method	0 to 600 mm	10.1 µm

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74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.1 µm)	Using Standard Foil by Comparison Method	23 µm to 912 µm	3.6 µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.1 µm)	Using Standard Foil by Comparison Method	912 µm to 2000 µm	10.8 µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand / Tilting Table (Flatness)	Using Electronic Digital Dial & Surface Plate / Electronic Level by Comparison method	50 mm X 50 mm to 300 mm X 300 mm	3.91 µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier / Dial / Digital) (L.C.: 0.01 mm)	Using Slip Gauge Set & Long Slip Gauge Set by Comparison Method	0 to 300 mm	8.2 µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digital Gauge (Plunger Type) (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	1.9 µm

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79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester (L.C.: 0.2 µm)	Using Electronic Digital Dial by Comparison Method	0 to 25 mm	1.3 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.01 mm)	Using Slip Gauge Set by Comparison Method	0 to 10 mm	5.8 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Level, Spirit Level (L.C.: 0.001 mm/m or Corser)	Using Electronic Level and Tilting Table by Comparison Method	0 to 2 mm/m	5.7 µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe / LVDT (L.C.: 0.01 µm & coarser)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	7.9 µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation & Flakiness Gauge	Using Digital Vernier Caliper by Comparison Method	0 to 100 mm	27.5 µm

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84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square / Try Square (Parallelism)	Using CMM by Direct Method	0 to 300 mm	10.1 µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square / Try Square (Squareness)	Using CMM by Direct Method	0 to 300 mm	10.3 µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square / Try Square (Straightness)	Using CMM by Direct Method	0 to 300 mm	10.1 µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer (Gauge Length)	Using Height Gauge by Comparison Method	0 to 50 mm	17.3 µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer Calibrator Fixture (Variation in Length)	Using Slip Gauge Set (K Grade) by Comparison method as per ISO 9513:2012	0.5 mm to 10 mm	4 µm

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89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 µm)	Using Slip Gauge Set and Long Slip Gauge Set by Comparison method	300 mm to 500 mm	8.7 µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 1 µm)	Using Slip Gauge Set and Long Slip Gauge Set by Comparison method	0 to 300 mm	4.8 µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 10 µm)	Using Slip Gauge Set and Long Slip Gauge Set by Comparison Method	0 to 1800 mm	20.2 µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Dial Gauge with Comparator Stand by Comparison Method	0.025 mm to 1 mm	5.4 µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Plunger type Dial Gauge by Comparison Method	0 to 110 µm	1.7 µm

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94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier / Dial / Digital) (L.C.: 10 µm)	Using Caliper Checker & Surface Plate by Comparison Method	0 to 600 mm	13.5 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer, Clinometer (L.C.: 0.01 °)	Using Angle Gauge Block Set by Comparison Method	0 ° to 90 °	1.8 minute of arc
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper (L.C.: 10 µm)	Using Slip Gauge & Accessories Set by Comparison Method	0 to 200 mm	9.5 µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer / Stick Micrometer (L.C.: 10 µm)	Using Slip Gauge Set & long slip gauge Set & digital Dial by Comparison Method	5 mm to 300 mm	8.1 µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer / Stick Micrometer (L.C.: 10 µm)	Using Long Slip Gauge Set ,Comparator Stand & Digital Dial by Comparison Method	300 mm to 975 mm	18.6 µm

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99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Key Way Plug Gauge	Using CMM by Direct Method	0 to 100 mm	9.2 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.01 µm)	Using Dial Calibration Tester by Direct Method	0 to 0.8 mm	6.04 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Master Block for Ultrasonic Thickness Gauge / Step Gauge	Using Slip Gauge Block & Digital Dial by Comparison Method	0 to 10 mm	7 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Electronic Digital Dial with Comparator Stand by Comparison Method	0.1 mm to 20 mm	1.3 µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 1 mm)	Using Tape and Scale Calibrator as per IS 1269 P1 by Comparison Method	0 to 1000 mm	290 µm

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104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape / Circumference Tape / Pie Tape (L.C.: 1 mm)	Using Tape and Scale Calibrator as per IS 1269 P1 by Comparison Method	0 to 50 m	579.3 X SQRT(L), Where L in µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head (L.C.: 1 µm)	Using Gauge Block Set (K Grade) & Electronic Digital Dial by Comparison Method	0 to 25 mm	1.9 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod / Setting Piece / Height Block	Using Long Slip Gauge Set, Comparator Stand and Electronic Digital Dial by Comparison Method	25 mm to 275 mm	5.8 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod / Setting Piece / Height Block	Using Long Slip Gauge Set, Comparator Stand and Electronic Digital Dial by Comparison Method	275 mm to 475 mm	8.2 µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mould (Length, Width, Height, Diameter, Depth)	Using Digital Vernier Caliper by Comparison method	0 to 500 mm	28.5 µm

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109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mould (Length, Width, Height, Diameter, Depth, Thickness)	Using CMM by Direct Method	0 to 700 mm	5.9 µm
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Dial Caliper/Pistol Caliper (L.C.: 0.1 mm)	Using Slip Gauge Set by Comparison Method	0 to 50 mm	8.0 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer (Linear) (L.C.: 0.1 mm)	Using Slip Gauge Set by Direct Method	0 to 40 mm	28.9 µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Setting Master / Outer Dia Master / Width Gauge	Using CMM by Direct Method	1 mm to 100 mm	6.1 µm
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge / ID Master / Air Ring Gauge	Using CMM by Direct Method	3 mm to 240 mm	7.9 µm

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114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge, Electronic Probe, LVDT (L.C.: 0.1 µm & Coarser)	Using Slip Gauge Block set by Comparison Method	0 to 25 mm	1.7 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius standards / Reference Sphere, Steel Ball	Using CMM by Direct Method	1 mm to 30 mm	5.7 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone (Dimension, Height, Diameter)	Using Digital Vernier Caliper by Comparison Method	0 to 300 mm	45.5 µm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge	Using Slip Gauge Set by Comparison Method	1 mm to 75 mm	2.9 µm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Thickness Foil	Using Electronic Digital Dial and Comparator Stand by Comparison Method	0.05 mm to 5 mm	9.9 µm

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119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape and Scale Calibrator (L.C.: 0.001 mm)	Using Slip Gauge Set & Long Slip Gauge Set by Comparison Method	0 to 1000 mm	22.9 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Vernier Caliper by Comparison Method	4 mm to 125 mm	38.4 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector or UMM by Direct Method	15 µm to 4 mm	7 µm
122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 10 µm)	Using Gauge Block by Comparison Method	0 to 300 mm	33.67 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vicat apparatus (L.C.: 1 mm)	Using Slip Gauge Set by Direct Method	0 to 40 mm	576 µm

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124	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital / Analog)	Using Digital Pressure Gauge and Hydraulic Pressure Comparator, Universal Calibrator by Comparison Method as per DKD-R-6-1	0 to 70 bar	0.043 bar
125	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital / Analog)	Using Digital Pressure Calibrator and Hydraulic Pressure Comparator, Universal Calibrator by Comparison Method as per DKD-R-6-1	0 to 700 bar	0.43 bar
126	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Digital / Analog)	Using Digital Pressure Gauge and Pressure Comparator, Universal Calibrator by Comparison method as per DKD-R-6-1	(-) 0.95 bar to 0	0.006 bar

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127	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Digital / Analog)	Using Digital Pressure Gauge and Pressure Comparator, Universal Calibrator by Comparison Method as per DKD-R-6-1	0 to 9 bar	0.007 bar
128	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench / Torque Tool (Type I : Class A, B, C, Type II : Class A, B, C)	Torque Transducers with Indicators by ISO 6789:2017	2 Nm to 2000 Nm	2.4 %
129	MECHANICAL-VOLUME	Measuring Cylinder, Volumetric Flask, Beaker, Bulk Density Cylinder	Using Weighing Balance (readability: 10 mg), Distilled Water by Gravimetric Method As per ISO 4787:2021	> 1000 ml to 2000 ml	1.2 ml
130	MECHANICAL-VOLUME	Micropipette	Using Weighing Balance (readability: 0.1 mg), Distilled Water by Gravimetric Method As per ISO 8655-6:2022	100 µl to 1000 µl	8.36 µl

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131	MECHANICAL-VOLUME	Micropipette	Using Weighing Balance (Resolution: 0.01 mg), Distilled Water by Gravimetric Method As per ISO 8655-6:2022	20 µl to 100 µl	2.47 µl
132	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Volumetric Flask, Beaker, Bottle Top Dispenser	Using Weighing Balance (readability: 0.1 mg), Distilled Water by Gravimetric Method as per ISO 4787:2021	10 ml to 100 ml	1.51 µl
133	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class III & Coarser (Readability: 1 g)	Using E1, E2 & F1 Class Weights as per OIML R76-1	10 g to 50 kg	2.4 g
134	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class I & Coarser (Readability: 0.001 mg)	Using E1 Class Weights as per OIML R76-1	1 mg to 21 g	0.14 mg
135	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class I & Coarser (Readability: 0.01 mg)	Using E1 Class Weights as per OIML R76-1	1 mg to 220 g	0.18 mg

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136	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class II & Coarser (Readability: 0.1 g)	Using E1, E2 & F1 Class Weights as per OIML R76-1	1 g to 20 kg	0.9 g
137	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class II & Coarser (Readability: 1 mg)	Using E1 Class Weights as per OIML R76-1	10 mg to 1020 g	3 mg
138	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class II & Coarser (Readability: 10 mg)	Using E1, E2 & F1 Class Weights as per OIML R76-1	100 mg to 3 kg	67 mg
139	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class IIII (Readability: 10 g)	Using E1, E2 & F1 Class Weights as per OIML R76-1	100 g to 100 kg	15 g
140	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class IIII (Readability: 20 g)	Using E2, F1, M1 Class Weights as per OIML R76-1	200 g to 200 kg	25 g
141	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.01 mg) as per OIML R-111-1 by ABBA Method	1 g	0.01 mg

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142	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.01 mg) as per OIML R-111-1 by ABBA Method	10 g	0.03 mg
143	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.1 mg) as per OIML R-111-1 by ABBA Method	100 g	0.15 mg
144	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.01 mg) as per OIML R-111-1 by ABBA Method	100 mg	0.01 mg
145	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.01 mg) as per OIML R-111-1 by ABBA Method	2 g	0.02 mg

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146	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.01 mg) as per OIML R-111-1 by ABBA Method	20 g	0.04 mg
147	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.1 mg) as per OIML R-111-1 by ABBA Method	200 g	0.2 mg
148	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.01 mg) as per OIML R-111-1 by ABBA Method	200 mg	0.02 mg
149	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.01 mg) as per OIML R-111-1 by ABBA Method	5 g	0.03 mg

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150	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.01 mg) as per OIML R-111-1 by ABBA Method	50 g	0.04 mg
151	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.01 mg) as per OIML R-111-1 by ABBA Method	50 mg	0.01 mg
152	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.01 mg) as per OIML R-111-1 by ABBA Method	500 mg	0.01 mg
153	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.01 mg) as per OIML R-111-1 by ABBA Method	1 mg	0.02 mg

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154	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.01 mg) as per OIML R-111-1 by ABBA Method	10 mg	0.02 mg
155	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.01 mg) as per OIML R-111-1 by ABBA Method	2 mg	0.02 mg
156	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.01 mg) as per OIML R-111-1 by ABBA Method	20 mg	0.02 mg
157	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of F1 Class With Electronic Weighing Balance (Readability: 100 mg) as per OIML R-111-1 by ABBA Method	5 kg	119 mg

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158	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of E1 Class With Electronic Weighing Balance (Readability: 0.01 mg) as per OIML R-111-1 by ABBA Method	5 mg	0.02 mg
159	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Weights of E2 Class With Electronic Weighing Balance (Readability: 1 mg) as per OIML R-111-1 by ABBA Method	1 kg	14 mg
160	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Weights of F1 Class With Electronic Weighing Balance (Readability: 100 mg) as per OIML R-111-1 by ABBA Method	10 kg	125 mg
161	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Weights of F1 Class With Electronic Weighing Balance (Readability: 10 mg) as per OIML R-111-1 by ABBA Method	2 kg	14 mg

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162	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using Weights of F1 Class With Electronic Weighing Balance (Readability: 100 mg) as per OIML R-111-1 by ABBA Method	20 kg	242 mg
163	MECHANICAL-WEIGHTS	Accuracy class M2 & coarser	Using Weights of E2 Class With Electronic Weighing Balance (Readability: 1 mg) as per OIML R-111-1 by ABBA Method	500 g	14 mg
164	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber / Environmental Chamber @ 25 °C - Multi Position Calibration	Temperature & Humidity Sensors (minimum 9) with Data Logger by Comparison method	35 %rh to 80 %rh	7.7 %rh
165	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber / Environmental Chamber @ 50 %rh - Multi Position Calibration	Temperature & Humidity Sensors (minimum 9) with Datalogger by Comparison method	15 °C to 50 °C	5 °C
166	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using 4 Wire RTD with 6½ DMM & Temperature Liquid Bath by Comparison Method	35 °C to 150 °C	1.4 °C

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167	THERMAL-TEMPERATURE	Temperature Transmitter with Sensor, RTD (Pt 100) & Thermocouple with or without Controller / Indicator, Temperature Recorder wiith indicator, Temperature Gauge, Data Logger with Sensor, Digital Thermometer	Using 4 Wire RTD with 6½ DMM & Dry Block Furnace by Comparison Method	50 °C to 400 °C	0.64 °C
168	THERMAL-TEMPERATURE	Temperature Transmitter with Sensor, RTD (Pt 100) and Thermocouple with or without Controller / Indicator, Temperature Recorder with Sensor, Temperature Gauge, Data Logger with Sensor, Digital Thermometer	Using 4 Wire RTD with 6½ DMM & Liquid Bath by Comparison Method	35 °C to 50 °C	0.64 °C

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169	THERMAL-TEMPERATURE	Temperature Transmitter with Sensor, Thermocouple with or without Controller / Indicator, Temperature Recorder with Sensor, Data Logger with Sensor, Digital Thermometer	Using S Type Thermocouple with 6½ DMM & Dry Block Furnace by Comparison Method	400 °C to 1200 °C	2.57 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ DMM by Direct Method	1 A to 10 A	0.67 % to 0.66 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 kHz	Using 6½ DMM by Direct Method	100 µA to 1 A	0.3 % to 0.67 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ DMM by Direct Method	1 mV to 1000 mV	0.81 % to 0.43 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ DMM by Direct Method	1 V to 750 V	0.43 % to 0.24 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	0.2 mA to 1 A	0.96 % to 0.27 %

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6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multifunction Calibrator by Direct Method	1 A to 9.9 A	0.27 % to 0.3 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	1.78 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	1 mV to 1000 mV	8.13 % to 0.22 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multifunction Calibrator by Direct Method	1 V to 750 V	0.22 %
10	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	1 A to 10 A	0.13 % to 0.29 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM by Direct Method	100 µA to 1 A	0.29 % to 0.13 %

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12	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire or 4 Wire)	Using 6½ DMM by Direct Method	1 kohm to 1 Mohm	0.043 % to 0.080 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire or 4 Wire)	Using 6½ DMM by Direct Method	1 Ohm to 1 kohm	0.094 % to 0.043 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire or 4 Wire)	Using 6½ DMM by Direct Method	1 Mohm to 100 Mohm	0.080 % to 0.83 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	1 mV to 1000 mV	0.37 % to 0.019 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM by Direct Method	1 V to 1000 V	0.019 % to 0.0020 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	1 A to 9.9 A	0.29 % to 0.23 %

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18	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	1.51 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator by Direct Method	100 µA to 1 A	0.24 % to 0.29 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire or 4 Wire)	Using Decade Resistance Box by Direct Method	1 kohm to 1 Mohm	1.15 % to 0.13 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire or 4 Wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 100 Mohm	0.13 % to 0.58 %
22	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire or 4 Wire)	Using Decade Resistance Box by Direct Method	1 Ohm to 1 kohm	0.23 % to 1.15 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Low Resistance Standard by Direct Method	10 µohm	0.75 %

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24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Low Resistance Standard by Direct Method	10 mohm	0.68 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Low Resistance Standard by Direct Method	100 µohm	0.68 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Low Resistance Standard by Direct Method	100 mohm	0.17 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Low Resistance Standard by Direct Method	1000 mohm	0.32 %
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Low Resistance Standard by Direct Method	50 µohm	1.58 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Low Resistance Standard by Direct Method	1 mohm	0.15 %

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30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	1 mV to 1000 mV	2.72 % to 0.43 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator by Direct Method	1 V to 1000 V	0.43 % to 0.12 %
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt 100)	Using Universal Calibrator by Direct Method	(-) 200 °C to 800 °C	0.44 °C
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Universal Calibrator by Direct Method	600 °C to 1800 °C	0.7 °C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.40 °C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.60 °C

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36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.40 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.41 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	0.70 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	0.70 °C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 400 °C	0.41 °C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt 100)	Using Universal Calibrator by Direct Method	(-) 200 °C to 800 °C	0.35 °C

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42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Universal Calibrator by Direct Method	600 °C to 1800 °C	0.62 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.41 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.4 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1370 °C	0.42 °C
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.41 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Universal Calibrator by Direct Method	0 °C to 1750 °C	0.65 °C

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48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Universal Calibrator by Direct Method	0 °C to 1760 °C	0.61 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Universal Calibrator by Direct Method	(-) 200 °C to 400 °C	0.48 °C
50	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ DMM by Direct Method	10 Hz to 50 Hz	0.007 %
51	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ DMM by Direct Method	50 Hz to 10 kHz	0.007 % to 0.008 %
52	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison Method	1 s to 600 s	0.52 s to 0.60 s
53	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Interval Meter by Comparison Method	600 s to 86400 s	0.60 s to 7.3 s

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54	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator by Direct Method	10 Hz to 100 Hz	0.12 % to 0.074 %
55	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator by Direct Method	100 Hz to 10 kHz	0.074 % to 0.068 %
56	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator of Centrifuge, RPM Indicator of Rotating Device (for non medical purpose only)	Using Master Non-Contact type Tachometer by Comparison Method	10 rpm to 1000 rpm	1.51 rpm
57	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator of Centrifuge, RPM Indicator of Rotating Device (for non medical purpose only)	Using Master Non-Contact type Tachometer by Comparison Method	1000 rpm to 10000 rpm	4.07 rpm
58	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator of Centrifuge, RPM Indicator of Rotating Device (for non medical purpose only)	Using Master Non-Contact type Tachometer by Comparison Method	10000 rpm to 50000 rpm	17.16 rpm

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59	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Tachometer and RPM Source by Comparison Method	10 rpm to 100 rpm	1.21 rpm
60	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Tachometer and RPM Source by Comparison Method	100 rpm to 5000 rpm	3.46 rpm
61	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact type)	Using Tachometer and RPM Source by Comparison Method	5000 rpm to 10000 rpm	3.46 rpm
62	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Tachometer and RPM Source by Comparison Method	10 rpm to 100 rpm	1.21 rpm
63	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Tachometer and RPM Source by Comparison Method	100 rpm to 1000 rpm	2.56 rpm
64	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Tachometer and RPM Source by Comparison Method	1000 rpm to 5000 rpm	4.01 rpm
65	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Tachometer and RPM Source by Comparison Method	10000 rpm to 50000 rpm	17.29 rpm
66	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Tachometer and RPM Source by Comparison Method	5000 rpm to 10000 rpm	4.08 rpm
67	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non Contact type)	Using Tachometer and RPM Source by Comparison Method	50000 rpm to 99999 rpm	23.32 rpm

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68	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB	0.69 dB
69	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	114 dB	0.69 dB
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester (L.C.: 0.2 µm)	Using Electronic Digital Dial by Comparison Method	0 to 25 mm	1.3 µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation & Flakiness Gauge	Using Digital Vernier Caliper by Comparison Method	0 to 100 mm	27.5 µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer (Electronic / Mechanical) (L.C: 0.001 mm & Coarser)	Using Extensometer Calibrator Fixture with Digital Dial Gauge by Comparison Method	0 to 2 mm	4.3 µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer Calibrator Fixture (Variation in Length)	Using Slip Gauge Set (K Grade) by Comparison method as per ISO 9513:2012	0.5 mm to 10 mm	4 µm

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74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope, Macroscope (Magnification)	Using Glass Scale by Comparison Method	Up to 1000 X	0.43 %
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mould (Length, Width, Height, Diameter, Depth)	Using Digital Vernier Caliper by Comparison method	0 to 500 mm	28.5 µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector, Optical Macroscope (Magnification)	Using Glass Scale / Digital Vernier Caliper by Comparison Method	7 X to 100 X	0.28 %
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector, Optical Microscope / Macroscope, Vision Measuring Machine , Video Measuring Machine (Linear) L.C : 1 µm	Using Gauge Block Set by Comparison method	0 to 25 mm	1.24 µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector, Vision Measuring Machine , Video Measuring Machine (Angular) (L.C.: 1 minute)	Using Angle Gauge Block Set by Comparison Method	0 to 360 °	17.56 minute of arc

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79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Precision Electronic Level by Comparison Method	Upto 2000 mm × 3000 mm	1.6×Sqrt ((L+W)/150) µm, Where L & W in mm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Vernier Caliper by Comparison Method	4 mm to 125 mm	38.4 µm
81	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Testing Machine	Using Standard Test Block as per ISO 6506 (part 2):2017, IS 1500 (Part 2):2021, ASTM E10:2018	HBW 5/750	2.29 %
82	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Brinell Hardness Testing Machine	Using Standard Test Block as per ISO 6506 (part 2):2017, IS 1500 (Part 2):2021, ASTM E10:2018	HBW 10/3000	2.59 %
83	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Indentation Measuring System of Brinell & Vickers Hardness Testing Machine (L.C.: 0.001 mm)	Using Glass Scale As Per IS 1500 : 2021, IS 1501 : 2021	0 to 7.0 mm	0.65 %

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84	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Micro Vickers Hardness Testing Machine	Using Standard Test Block as per ISO 6507 (part 2):2018, IS 1501 (Part 2):2021, ASTM E92-17	HV0.3	20.4 HV0.3
85	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Micro Vickers Hardness Testing Machine	Using Standard Test Block as per ISO 6507 (part 2):2018, IS 1501 (Part 2):2021, ASTM E92-17	HV1	19.8 HV1
86	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Testing Machine	Using Standard Test Block as per ISO 6508 (part 2):2015, IS 1586 (Part 2):2018, ASTM E18:2022	HRBW	1.57 HRBW
87	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Testing Machine	Using Standard Test Block as per ISO 6508 (part 2):2015, IS 1586 (Part 2):2018, ASTM E18:2022	HRA	1.25 HRA
88	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Rockwell Hardness Testing Machine	Using Standard Test Block as per ISO 6508 (part 2):2015, IS 1586 (Part 2):2018, ASTM E18:2022	HRC	1.09 HRC

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89	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Test Force for Brinell Hardness Testing Machine	Using Force Providing instrument Load Cell (Class 0.5 / A) with indicator by IS 1500 - 2 : 2021, ISO 6506 - 2 : 2017 & ASTM E - 10 : 2018	1838.7 N to 29420 N (187.5 kgf to 3000 kgf)	0.53 %
90	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Test Force for Rockwell Hardness Testing Machine	Using Load Cells as per ISO 6506 (part 2):2017, IS 1500 (Part 2):2021, ASTM E10, ISO 6508 (part 2):2015, IS 1586 (Part 2):2018, ASTM E18, ISO 6507 (part 2):2023, IS 1501 : (Part 2):2021, ASTM E92	147.1 N to 1471 N (15 gf to 150 kgf)	0.25 %
91	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Test Force for Vickers Hardness Testing Machine	Using Force Providing instrument Load Cell (Class 0.5 / A) with indicator by IS 1501 : (Part 2):2021, ASTM E92:2023	0.098 N to 1176.8 N (10 gf to 120 kgf)	0.3 %

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92	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Testing Cycle of Hardness Testing Machine	Using Stop Watch as per IS 1586 - 2 : 2018 & ISO 6508 - 2 : 2015 & ASTM E 18 : 2022 / IS 1500 : 2021 & ISO 6506 : 2017 & ASTM E 10 : 2018 / IS 1501 : 2021 & ISO 6507 : 2023 & ASTM E 92 : 2023 & ASTM E - 384 : 2022	1 s to 180 s	1.73 s
93	MECHANICAL-HARDNESS TESTING MACHINES	Verification of Vickers Hardness Testing Machine	Using Standard Test Block as per ISO 6507 (part 2):2018, IS 1501 (Part 2):2021, ASTM E92-17	HV10	1.69 %
94	MECHANICAL-IMPACT TESTING MACHINE	Verification of Charpy Impact Testing Machine-Direct & Indirect	Using Impact Calibration Kit as per ISO 148 P2:2016, ASTM E23-24	0 to 300 J	0.56 %
95	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital / Analog)	Using Digital Pressure Gauge and Hydraulic Pressure Comparator, Universal Calibrator by Comparison Method as per DKD-R-6-1	0 to 70 bar	0.043 bar

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96	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital / Analog)	Using Digital Pressure Calibrator and Hydraulic Pressure Comparator, Universal Calibrator by Comparison Method as per DKD-R-6-1	0 to 700 bar	0.43 bar
97	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Digital / Analog)	Using Digital Pressure Gauge and Pressure Comparator, Universal Calibrator by Comparison method as per DKD-R-6-1	(-) 0.95 bar to 0	0.006 bar
98	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Digital / Analog)	Using Digital Pressure Gauge and Pressure Comparator, Universal Calibrator by Comparison Method as per DKD-R-6-1	0 to 9 bar	0.007 bar
99	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni Axial Static Testing Machines Compression Mode (CTM, UTM, Fatigue Machine)	Using Force Providing instrument Load Cell (Class 1) with indicator by IS 1828-1:2022 & ISO 7500-1:2018	100 kN to 2000 kN	1 %

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100	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni Axial Static Testing Machines Compression Mode (CTM, UTM, FTM, CBR, Marshal, Triaxial, Direct Shear, UCS, Creep, Fatigue Machine)	Using Force Providing instrument Load Cell (Class 0.5) with indicator by IS 1828-1:2022 & ISO 7500-1:2018	0.1 kN to 20 kN	0.43 %
101	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni axial Static Testing Machines Compression Mode (CTM, UTM, FTM, CBR, TTM, Marshal, Triaxial, Direct Shear, UCS, Creep, Fatigue Machine)	Using Force Providing instrument Load Cell (Class 0.5 / A) with indicator by IS 1828-1:2022 & ISO 7500-1:2018, ASTM E4:2021	10 kN to 200 kN	0.5 %
102	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Uni axial Static Testing Machines Tension Mode (UTM, TTM, Creep, Fatigue Machine)	Using Force Providing Instrument Load Cell (Class 0.5) with indicator by IS 1828-1:2022 & ISO 7500-1:2018	1 kN to 20 kN	0.4 %
103	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class III & Coarser (Readability: 1 g)	Using E1, E2 & F1 Class Weights as per OIML R76-1	10 g to 50 kg	2.4 g
104	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class I & Coarser (Readability: 0.001 mg)	Using E1 Class Weights as per OIML R76-1	1 mg to 21 g	0.14 mg

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105	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class I & Coarser (Readability: 0.01 mg)	Using E1 Class Weights as per OIML R76-1	1 mg to 220 g	0.18 mg
106	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class II & Coarser (Readability: 0.1 g)	Using E1, E2 & F1 Class Weights as per OIML R76-1	1 g to 20 kg	0.9 g
107	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class II & Coarser (Readability: 1 mg)	Using E1 Class Weights as per OIML R76-1	10 mg to 1020 g	3 mg
108	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class II & Coarser (Readability: 10 mg)	Using E1, E2 & F1 Class Weights as per OIML R76-1	100 mg to 3 kg	67 mg
109	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class IIII & Coarser (Readability: 100 g)	Using M1 & F1 Class Weights as per OIML R76-11	1 kg to 700 kg	269 g
110	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class IIII (Readability: 10 g)	Using E1, E2 & F1 Class Weights as per OIML R76-1	100 g to 100 kg	15 g
111	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Accuracy Class IIII (Readability: 20 g)	Using E2, F1, M1 Class Weights as per OIML R76-1	200 g to 200 kg	25 g

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112	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber / Environmental Chamber @ 25 °C - Multi Position Calibration	Temperature & Humidity Sensors (minimum 9) with Data Logger by Comparison method	35 %rh to 80 %rh	7.7 %rh
113	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chamber / Environmental Chamber @ 50 %rh - Multi Position Calibration	Temperature & Humidity Sensors (minimum 9) with Datalogger by Comparison method	15 °C to 50 °C	5 °C
114	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Humidity Chamber, Humidity Calibrator, Humidity Generator / Environmental Chamber @ 25 °C - Single Position Calibration	Using Digital RH & Temperature Indicator with Sensor probe by Comparison Method	30 %rh to 85 %rh	1 %rh
115	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature Indicator with Sensor of Humidity Chamber, Humidity Calibrator, Humidity Generator / Environmental Chamber @ 50 %rh - Single Position Calibration	Using Digital RH & Temperature Indicator with Sensor by Comparison Method	15 °C to 50 °C	0.95 °C

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116	THERMAL-TEMPERATURE	Deep Freezer, Freezer, Hot or Cold, Chamber, Thermal Bath, Environmental Chamber, Oven, Autoclave, Incubator (for Non Medical Purpose only) - Multi Position Calibration	Using RTD Sensors (minimum 9) With Data Logger By Comparison Method	(-) 40 °C to 250 °C	5.34 °C
117	THERMAL-TEMPERATURE	Oven, Furnace - Multi Position Calibration	Using Data Logger with N Type Thermocouple (Minimum 9) by Comparison Method	150 °C to 1200 °C	7.1 °C
118	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Freezer, Liquid bath, Chamber, Refrigerator, Cold room, Environmental Chamber - Single Position Calibration	Using 4 Wire RTD with 6½ DMM by Comparison Method	(-) 80 °C to 250 °C	0.83 °C
119	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Liquid Bath - Single Position Calibration	Using 4 Wire RTD with 6 ½ DMM By Comparison Method	(-) 196 °C	0.56 °C

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120	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Oven, Furnace, Dry Block - Single Position Calibration	Using S Type Thermocouple with 6½ DMM by Comparison Method	400 °C to 1200 °C	2.46 °C
121	THERMAL-TEMPERATURE	Temperature Transmitter with Sensor, RTD (Pt 100) & Thermocouple with or without Controller / Indicator, Temperature Recorder wiith indicator, Temperature Gauge, Data Logger with Sensor, Digital Thermometer	Using 4 Wire RTD with 6½ DMM & Dry Block Furnace by Comparison Method	50 °C to 400 °C	0.64 °C

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122	THERMAL-TEMPERATURE	Temperature Transmitter with Sensor, RTD (Pt 100) and Thermocouple with or without Controller / Indicator, Temperature Recorder with Sensor, Temperature Gauge, Data Logger with Sensor, Digital Thermometer	Using 4 Wire RTD with 6½ DMM & Liquid Bath by Comparison Method	35 °C to 50 °C	0.64 °C
123	THERMAL-TEMPERATURE	Temperature Transmitter with Sensor, Thermocouple with or without Controller / Indicator, Temperature Recorder with Sensor, Data Logger with Sensor, Digital Thermometer	Using S Type Thermocouple with 6½ DMM & Dry Block Furnace by Comparison Method	400 °C to 1200 °C	2.57 °C

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