National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	SENSEWELL CALIBRATION SERVICES LLP, SHED NO. A/01/93/A/03, SHREEJI INDUSTRIAL ESTATE, MAKARPURA GIDC, M.I. ESTATE, VADODARA, 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)	Using 6½ DMM by Direct Method	1 A to 10 A	0.167 % to 0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using 6½ DMM by Direct Method	1 mA to 1 A	0.164 % to 0.167 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using 6½ DMM by Direct Method	40 µA to 1 mA	0.359 % to 0.164 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz)	Using 6½ DMM by Direct Method	1 mV to 40 mV	4.73 % to 0.19 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz)	Using 6½ DMM by Direct Method	1 V to 1000 V	0.11 % to 0.103 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz)	Using 6½ DMM by Direct Method	40 mV to 1 V	0.19 % to 0.11 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using MPC by Direct Method	1 A to 10 A	0.076 % to 0.097 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using MPC with Current Coil by Direct Method	10 A to 1000 A	1 % to 1.45 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using MPC by Direct Method	30 µA to 1 A	0.578 % to 0.076 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz)	Using MPC by Direct Method	1 mV to 1 V	2.573 % to 0.047 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz)	Using MPC by Direct Method	1 V to 100 V	0.047 % to 0.07 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz)	Using MPC by Direct Method	100 V to 1000 V	0.07 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using MPC by Direct Method	1 nF to 300 nF	1.83 % to 0.76 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	1 A to 3 A	0.09 % to 0.140 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	1 mA to 1 A	0.07 % to 0.09 %

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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	10 µA to 100 µA	0.36 % to 0.09 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	100 µA to 1 mA	0.09 % to 0.07 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ DMM by Direct Method	3 A to 10 A	0.14 % to 0.19 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	1 mV to 100 mV	0.412 % to 0.01 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	1 V to 1000 V	0.004 % to 0.006 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ DMM by Direct Method	100 mV to 1 V	0.01 % to 0.004 %

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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance- 2 Wire	Using 6½ DMM by Direct Method	1 ohm to 100 ohm	0.363 % to 0.02 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance- 2 wire	Using 6½ DMM by Direct Method	100 kohm to 100 Mohm	0.014 % to 0.975 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance- 2 wire	Using 6½ DMM by Direct Method	100 Mohm to 1000 Mohm	0.975 % to 2.35 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance- 2 wire	Using 6½ DMM by Direct Method	100 ohm to 100 kohm	0.02 % to 0.014 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Curent	Using MPC by Direct Method	1 µA to 300 µA	2.506 % to 0.026 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Curent	Using MPC by Direct Method	1 A to 10 A	0.054 % to 0.08 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Curent	Using MPC with Current Coil by Direct Method	10 A to 1000 A	0.813 % to 0.95 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Curent	Using MPC by Direct Method	30 mA to 1 A	0.06 % to 0.054 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Curent	Using MPC by Direct Method	300 µA to 30 mA	0.026 % to 0.06 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MPC by Direct Method	1 mV to 3 V	0.362 % to 0.006 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MPC by Direct Method	3 V to 1000 V	0.006 % to 0.010 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance- 2 Wire	Using MPC by Direct Method	100 Mohm to 1 Gohm	0.98 % to 1.79 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance-2 Wire	Using MPC by Direct Method	1 ohm to 100 kohm	0.95 % to 0.02 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance-2 Wire	Using MPC by Direct Method	100 kohm to 100 Mohm	0.02 % to 0.98 %
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT-100	Using 6½ DMM by Direct Method	(-) 200 °C to 800 °C	0.5 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple- B Type	Using Temperature Scanner By Direct Method	600 °C to 1800 °C	1.4 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple- C Type	Using Temperature Scanner By Direct Method	200 °C to 1300 °C	1 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple- E Type	Using Temperature Scanner By Direct Method	(-) 200 °C to 1000 °C	0.8 °C

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40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple- J Type	Using Temperature Scanner By Direct Method	(-) 200 °C to 1200 °C	0.6 °C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple- K Type	Using Temperature Scanner By Direct Method	(-) 200 °C to 1300 °C	0.7 °C
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple- N Type	Using Temperature Scanner By Direct Method	(-) 200 °C to 1300 °C	0.92 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple- R Type	Using Temperature Scanner By Direct Method	0 °C to 1700 °C	1.51 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple- S Type	Using Temperature Scanner By Direct Method	0 °C to 1700 °C	1.4 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple- T Type	Using Temperature Scanner By Direct Method	(-) 200 °C to 400 °C	0.93 °C

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46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT-100	Using MPC by Direct Method	(-) 200 °C to 800 °C	0.5 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple- B Type	Using MPC by Direct Method	600 °C to 1800 °C	0.61 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple- C Type	Using MPC by Direct Method	0 °C to 2300 °C	1.1 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple- E Type	Using MPC by Direct Method	(-) 200 °C to 1000 °C	0.7 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple- J Type	Using MPC by Direct Method	(-) 200 °C to 1200 °C	0.5 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple- K Type	Using MPC by Direct Method	(-) 200 °C to 1370 °C	0.6 °C

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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple- N Type	Using MPC by Direct Method	(-) 200 °C to 1300 °C	0.6 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple- R Type	Using MPC by Direct Method	0 °C to 1750 °C	0.74 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple- S Type	Using MPC by Direct Method	0 °C to 1750 °C	0.7 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple- T Type	Using MPC by Direct Method	(-) 200 °C to 400 °C	0.8 °C
56	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ DMM by Direct Method	3 Hz to 1 MHz	0.225 % to 0.02 %
57	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	1 s to 86400 s	0.15 s to 9.12 s

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58	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MPC by Direct Method	1 Hz to 100 kHz	0.59 % to 0.007 %
59	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MPC by Direct Method	100 kHz to 2 MHz	0.007 % to 0.004 %
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge	Using Thickness Foils by Comparison Method	0 to 2 mm	4.86 µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor L.C.: 5 ' & Coarser (4 Quadrants)	Using Angle Gauge Set by Comparison Method	0° to 90°	3.4 arc minute
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Transmission Error) L.C.: 1 µm	Using LMM by Comparison Method	0 to 1.2 mm	2.6 µm

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63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Transmission Error) L.C.: 10 µm	Using LMM by Comparison Method	0 to 1 mm	7.3 µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Callipers (Digital / Dial / Vernier) L.C.: 10 µm	Using Caliper Checker by Comparison Method	0 to 1000 mm	22.6 µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set & Angle Protractor L.C.: 1°	Using Angle Gauge Set by Comparison Method	0° to 90°	17.3 arc minute
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (Digital / Dial / Vernier) L.C.:10 µm	Using Depth Micro Checker by Comparison Method	0 to 300 mm	12.7 µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (Digital / Dial/ Vernier) L.C.: 20 µm	Using Caliper checker, Length Bar by Comparison Method	0 to 600 mm	19.6 µm

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68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C.:10 µm	Using Depth Micro Checker by Comparison Method	0 to 300 mm	10.8 µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C.:1 µm	Using Gauge Block Set by Comparison Method	0 to 12.7 mm	1.0 µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Protractor L.C.: 10"	Using Angle Gauge set by Comparision Method	0° to 90° (IV Quadrants)	0.3 arc minute
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	DRO with Probe L.C.: 0.0001 mm	Using LMM by Comparison Method	upto 2 mm	0.6 µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analogue / Dial / Digital), L.C.:10 µm	Using Gauge Block Set & Length Bar by Comparison Method	0 to 1000 mm	18.0 µm

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73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analogue/Digital), L.C.:1 µm	Using Gauge Block Set by Comparison Method	0 to 100 mm	1.4 µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using External Micrometer by Comparison Method	0.05 mm to 1 mm	3.9 µm
75	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 1000 mm	27 µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper (L.C.: 10 µm)	Using Caliper checker & surface Plate by comparison method	50 mm to 100 mm	12.6 µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper L.C.: 25 µm	Using Slip Gauge Blocks & Accessories by Comparison Method	5 mm to 50 mm	16.6 µm

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78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer (Caliper Type) L.C.:10 µm	Using Slip Gauge Set & Accessory by Comparison Method	25 mm to 50 mm	7.6 µm
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer (Caliper Type) L.C.: 10 µm	Using Slip Gauge Set & Accessory by Compariosion Method	5 mm to 30 mm	7.6 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer / Stick Micrometer (2 Point) Overall Length Accuracy with Extension Rod/Stick.	Using Length Bars, V-Block & Parallel Blocks by Comparison Method	50 mm to 1000 mm	19.3 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Micrometer/Stick Micrometer (2 Point) L.C.:10 µm	Using LMM by Comparison Method	50 mm to 75 mm	6.1 µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.:1µm	Using LMM by Comparison Method	0 to 0.14 mm	1.7 µm

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83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge L.C.:10 µm	Using LMM by Comparison Method	0 to 1.0 mm	2.9 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measure Tape , L.C.:1 mm	Tape & Scale Measuring Machine by Comparison Method	0 to 50 mtr	159 Sqrt (L) µm, Where L is in meter
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Block Set & Digital Indicator by Comparison Method	25 mm to 275 mm	8.5 µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Gauge Block Set & Digital Indicator by Comparison Method	275 mm to 1000 mm	12.7 µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Thread Plug Gauge/ Wear Check Plug Gauge (Major Diameter/Effective diameter)	Using LMM, OD Master & Thread Measuring Wires by Comparision Method	1.4 mm to 100 mm	3.1 µm

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88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PI Tape L.C.: 0.1 mm	Using Tape & Scale measuring Machine	up to 5 m	119 Sqrt (L) µm where L in meter
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (outside) , L.C.: 100 µm	Using Gauge Block Set by comparision method	0 to 100 mm	55 µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using LMM & OD Master by comparision method	1 mm to 225 mm	5.8 µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using LMM & Master Ring Master by Comparison Method	3 mm to 225 mm	3.5 µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using LMM & Master Setting Ring Master by Comparison Method	3 mm to 88.14 mm	3.8 µm

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93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge / Digital Indicator L.C.:1 µm	Using LMM by Comparison Method	0 to 25 mm	1.9 µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge / Digital Indicator L.C.: 1 µm	Using LMM by Comparison Method	0 to 50 mm	1.9 µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector Master by comparision method	0.5 mm to 25 mm	8.3 µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale, L.C.: 0.5 /1mm	Tape & Scale Measuring Machine by Comparison	0 to 1000 mm	119 µm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Step / Thickness gauge	Using Gauge Block Set & Digital Indicator by comparison method	1 mm to 100 mm	6.2 µm

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98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level by Comparison Method	300*300 mm to 2000*2000 mm	0.75 Sqrt (L+W) / 100 µm , Where L & W are in mm µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape & Scale Calibrator L.C.: 0.001 mm	Using Length Bar by Comparison Method	0 to 1000 mm	16.7 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using Profile Projector Master by Comparison Method	0.075 mm to 4.00 mm	10.7 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using Length Measuring Machine by Comparison Method	0.1 mm to 2.1 mm	2.0 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angular Measurement)	Using Profile Projector Master by Comparison Method	55° to 60°	8.5 arc minutes

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103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge for Linear Measurement	Using Profile Projector Master by Comparison Method	0.4 mm to 7.0 mm	11.3 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Micrometer, L.C.: 0.001mm-Flank Angle of V-Anvil	Using Profile Projector by Comparison Method	60°	6.6 arc minute
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge / Wear Check Ring Gauge -Effective Diameter	Using LMM and Master Ring Gauge Master by Comparison Method	5 mm to 100 mm	3.8 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C.: 0.1 mm	Using Step Gauge For UTG Master by Comparison Method	1 mm to 100 mm	83.0 µm
107	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauges (Digital / Dial) Pressure transmitter with Indicator	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method as per DKD-R 6-1	0 to 450 bar	0.321 bar

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108	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Digital / Dial) Transmitter, Pressure Indicator	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.055 bar
109	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Digital, Dial) Manometer, Magnahelic Gauge, Pressure Calibrator, Pressure Transmitter with Indicator	Using Digital Pressure Controller / Calibrator by Comparison Method as per DKD-R 6-1	0 to 2.5 kPa	0.011 kPa
110	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Digital, Dial) Manometer, Pressure Calibrator, Pressure Transmitter with Indicator	Using Digital Pressure Controller / Calibrator by Comparison Method as per DKD-R 6-1	0 bar to 20 bar	0.005 bar
111	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Digital, Dial) Manometer, Pressure Calibrator, Pressure Transmitter with Indicator	Using Digital Pressure Controller / Calibrator by Comparison Method as per DKD-R 6-1	0 to 2 bar	0.001 bar
112	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Digital, Dial), Manometer, Pressure Calibrator, Pressure Transmitter with Indicator	Using Digital Pressure Controller / Calibrator by Comparison Method as per DKD-R 6-1	0 to 35 kPa	0.021 kPa

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113	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauges (Digital / Dial) Transmitter, Manometer	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method as per DKD-R 6-1	0 to 2.45 kPa	0.041 kPa
114	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Pressure Gauge (Digital & Dial), Pressure Calibrator, Pressure Transmitter with Indicator	Using Low & High Range Piston Pressure Dead Weight Tester by Comparison Method as per DKD-R 6-1	20 bar to 700 bar	0.12 bar
115	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Hydraulic Pressure Gauge (Digital & Dial), Pressure Calibrator, Pressure Transmitter with Indicator	Using Low & High Range Piston Pressure Dead Weight Tester by Comparison Method as per DKD-R 6-1	3.5 bar to 35 bar	0.009 bar
116	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Digital & Dial) Gauge, Manometer, Vacuum Calibrator, Vacuum Transmitter with Indicator	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method as per DKD-R 6-1	(-) 0.95 bar to 0 bar	0.033 bar
117	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Digital & Dial), Manometer, Vacuum Calibrator, Vacuum Transmitter with Indicator	Using Digital Pressure Controller / Calibrator by Comparison Method	(-) 2.5 kPa to 0	0.012 kPa

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118	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Digital, Dial), Manometer, Vacuum Calibrator, Vacuum Transmitter with Indicator	Using Digital Pressure Controller / Calibrator by Comparison Method as per DKD-R 6-1	(-) 0.95 bar to 0	0.001 bar
119	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Digital, Dial), Manometer, Vacuum Calibrator, Vacuum transmitter with Indicator	Using Digital Pressure Controller / Calibrator by Comparison Method as per DKD-R 6-1	(-) 35 kPa to 0	0.025 kPa
120	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	1 g	0.0201 mg
121	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	1 mg	0.01 mg

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122	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	10 g	0.0302 mg
123	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	10 mg	0.01 mg
124	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	100 g	0.0833 mg

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125	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	100 mg	0.02 mg
126	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	2 g	0.0204 mg
127	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	2 mg	0.01 mg

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128	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	20 g	0.0833 mg
129	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	20 mg	0.01 mg
130	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	200 g	0.1 mg

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131	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	200 mg	0.02 mg
132	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	5 g	0.03 mg
133	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	5 mg	0.01 mg

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134	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	50 g	0.0833 mg
135	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	50 mg	0.01 mg
136	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E2 Class Standard Weights & Weighing Balance (Readability: 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R111-1	500 mg	0.02 mg

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137	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1 Class Standard Weights & Weighing Balance (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R111-1	5000 g	82 mg
138	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1 Class Standard Weights & Weighing Balance (Readability: 1 g) by Substitution Method (ABBA Cycle) as per OIML R111-1	20 kg	817 mg
139	MECHANICAL-WEIGHTS	Accuracy class M2 & coarser	Using F1 Class Standard Weights & Weighing Balance (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R111-1	1000 g	82 mg
140	MECHANICAL-WEIGHTS	Accuracy class M2 & coarser	Using F1 Class Standard Weights & Weighing Balance (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R111-1	2000 g	82 mg

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141	MECHANICAL-WEIGHTS	Accuracy class M2 & coarser	Using F1 Class Standard Weights & Weighing Balance (Readability: 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R111-1	500 g	82 mg
142	MECHANICAL-WEIGHTS	Accuracy class M3 & coarser	Using F1 Class Standard Weights & Weighing Balance (Readability: 1 g) by Substitution Method (ABBA Cycle) as per OIML R111-1	10 kg	800 mg
143	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor with Indicator / Digital Hygrometer	Using Temperature & Humidity Meter with Sensor & Humidity Chamber by Comparison Method	25 % rh to 85 % rh @ 25 °C	1.86 % rh
144	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature / Humidity - Indicator, Data Logger, Controller with Inbuilt or External Temperature / Humidity Sensor, Thermo Hygrometer	Using Temperature & Humidity Meters with sensors & Humidity Chamber by Comparison method	10 °C to 50 °C @ 50 % rh	0.65 °C

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145	THERMAL-TEMPERATURE	Infrared Radiation Thermometer @ Emissivity 0.95	Using IR Thermometer, Infrared Calibrator by Comparison Method	50 °C to 500 °C	3.46 °C
146	THERMAL-TEMPERATURE	Liquid-in Glass Thermometer	Using PRT Sensor, Liquid Bath, Temperature Scanner by Comparison Method	50 °C to 200 °C	1.44 °C
147	THERMAL-TEMPERATURE	RTD / Thermocouple Sensor with or without Indicator / Data-Logger / Recorder / Temperature Gauge / Temperature Transmitter / Digital Thermometer	Using Low Temperature Dry Block Bath, PRT Sensor with Temperature Scanner by Comparison Method	(-) 45 °C to 140 °C	0.32 °C
148	THERMAL-TEMPERATURE	RTD / Thermocouple Sensor with or without Indicator / Data-Logger / Recorder / Temperature Gauge / Temperature Transmitter / Digital Thermometer	Using Temperature source (Dry Ice), PRT Sensor with Temperature Scanner by Comparison Method	(-) 80 °C	0.30 °C

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149	THERMAL-TEMPERATURE	RTD / Thermocouple Sensor with or without Indicator / Data-Logger / Recorder / Temperature Gauge / Temperature Transmitter / Digital Thermometer	Using Dry Block Bath, PRT Sensor with Temperature Scanner by Comparison Method	140 °C to 650 °C	0.36 °C
150	THERMAL-TEMPERATURE	RTD / Thermocouple Sensor with or without Indicator / Data-Logger / Recorder / Temperature Gauge / Temperature Transmitter / Digital Thermometer	Using Liquid N2 Cylinder, PRT Sensor with Temperature Scanner by Comparison Method	(-) 196 °C	0.28 °C
151	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Dry Block Calibrator, Dry Block Furnace (Single Position)	Using PRT Sensor and Data Acquisition Scanner by Comparison Method	140 °C to 650 °C	0.36 °C

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152	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Bath, Dry Block Calibrator, Dry Block Furnace (Single Position)	Using PRT Sensor, Data Acquisition Scanner by Comparison Method	(-) 45 °C to 140 °C	0.32 °C
153	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Baths, Dry Block Calibrator, Dry Block Furnace (Single Position)	Using 'S' Type Thermocouple Sensor, Data Acquisition Scanner by Comparison Method	650 °C to 1200 °C	3.33 °C
154	THERMAL-TEMPERATURE	Thermocouple with or without Temperature Indicator / Data-Logger / Recorder / Temperature Gauge / Temperature Transmitter / Digital Thermometer	Using Portable Furnace, 'S' type Thermocouple with Temperature Scanner by Comparison Method	650 °C to 1200 °C	3.33 °C

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Site Facility					
1	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5½ DMM By Direct Method	1 mA to 20 mA	0.11 % to 0.2 %
2	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Calibrator by Direct Method	1 mA to 20 mA	0.76 % to 0.11 %
3	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Calibrator by Direct Method	1 mV to 100 mV	6.79 % to 0.08 %
4	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Calibrator by Direct Method	100 mV to 20 V	0.08 % to 0.05 %
5	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance- 2 Wire	Using Calibrator by Direct Method	1 ohm to 500 ohm	35.86 % to 0.095 %

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6	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD PT-100	Using Calibrator by Direct Method	(-) 200 °C to 800 °C	0.93 °C
7	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple- J Type	Using Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.6 °C
8	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple- K Type	Using Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.9 °C
9	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple- R Type	Using Calibrator by Direct Method	0 °C to 1700 °C	1.35 °C
10	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple- S Type	Using Calibrator by Direct Method	50 °C to 1700 °C	1.41 °C
11	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple- T Type	Using Calibrator by Direct Method	(-) 200 °C to 400 °C	0.9 °C

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12	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD PT-100	Using Calibrator by Direct Method	(-) 200 °C to 800 °C	0.93 °C
13	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple- J Type	Using Calibrator by Direct Method	(-) 200 °C to 1200 °C	1.4 °C
14	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple- K Type	Using Calibrator by Direct Method	(-) 200 °C to 1300 °C	1.5 °C
15	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple- R Type	Using Calibrator by Direct Method	100 °C to 1650 °C	4.7 °C
16	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple- S Type	Using Calibrator by Direct Method	100 °C to 1700 °C	4.8 °C
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple- T Type	Using Calibrator by Direct Method	(-) 200 °C to 400 °C	1 °C

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18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level by Comparison Method	300*300 mm to 2000*2000 mm	0.75 Sqrt (L+W) / 100 µm , Where L & W are in mm µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape & Scale Calibrator L.C.: 0.001 mm	Using Length Bar by Comparison Method	0 to 1000 mm	16.7 µm
20	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Digital / Dial) Pressure Transmitter with Indicator	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method as per DKD-R 6-1	0 to 450 bar	0.321 bar
21	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Digital / Dial) Transmitter, Pressure Indicator	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.055 bar
22	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauges (Digital / Dial) Transmitter, Manometer	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method as per DKD-R 6-1	0 to 2.45 kPa	0.041 kPa

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23	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Digital & Dial) Gauge, Manometer, Vacuum Calibrator, Vacuum Transmitter with Indicator	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method as per DKD-R 6-1	(-) 0.95 bar to 0 bar	0.033 bar
24	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I) - Readability 0.1 mg	Using E2 Class Weight as per OIML R 76-1	0 to 220 g	0.687 mg
25	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class I) - Readability: 0.01 mg	Using E2 Class Weight as per OIML R 76-1	0 to 102 g	0.131 mg
26	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class II and Coarser) - Readability: 0.1	Using E2 & F1 Class Weight as per OIML R 76-1	0 to 5 kg	133 mg
27	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class III and Coarser) - Readability: 5 g	Using reference standard weights (F1 Class) as per OIML R 76-1	0 to 50 kg	2.9 g
28	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Class III and Coarser) Readability: 2 g	Using F1 Class Weight as per OIML R 76-1	0 to 20 kg	1.2 g
29	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance (Readability: 1 g)	Using F1 Class Weight as per OIML R 76-1	0 to 30 kg	1.5 mg

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30	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor with Indicator / Digital Hygrometer	Using Temperature & Humidity Meter with Sensor & Humidity Chamber by Comparison Method	25 % rh to 85 % rh @ 25 °C	1.86 % rh
31	THERMAL-SPECIFIC HEAT & HUMIDITY	Storage Room, Stability / Humidity Chamber, Environment Chamber (Multiposition)	Using Minimum Nine Wireless Dataloggers by Comparison Method	25 % rh to 85 % rh @ 20 °C to 50 °C	4.78 % rh
32	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature / Humidity - Indicator, Data Logger, Controller with Inbuilt or External Temperature / Humidity Sensor, Thermo Hygrometer	Using Temperature & Humidity Meters with sensors & Humidity Chamber by Comparison method	10 °C to 50 °C @ 50 % rh	0.65 °C
33	THERMAL-TEMPERATURE	Cold / Storage Room, Deep Freezer, Refrigerator, Autoclave, Incubator (For non-medical purpose only), Oven, Chamber, GC, HPLC (Multiposition)	Using Universal Data Logger With Minimum Nine RTD Sensors by Comparison Method	(-) 80 °C to 300 °C	3.57 °C

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34	THERMAL-TEMPERATURE	Cold / Storage Room, Deep Freezer, Refrigerator, Incubator (For non-medical purpose only), Oven, Chamber, GC, HPLC (Multiposition)	Using Minimum Nine Wireless Temperature Datalogger by Comparison Method	(-) 30 °C to 70 °C	2.7 °C
35	THERMAL-TEMPERATURE	Oven, Furnace (Multiposition)	Using Universal Data Logger With Minimum Nine Thermocouple Sensors by Comparison Method	300 °C to 1050 °C	8.63 °C
36	THERMAL-TEMPERATURE	RTD / Thermocouple Sensor with or without Indicator / Data-Logger / Recorder / Temperature Gauge / Temperature Transmitter / Digital Thermometer	Using RTD (PT-100) with Temperature Indicator, Dry Block Bath and Digital Multimeter by Comparison Method	(-) 45 °C to 100 °C	0.43 °C

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37	THERMAL-TEMPERATURE	RTD / Thermocouple Sensor with or without Indicator / Data-Logger / Recorder / Temperature Gauge / Temperature Transmitter / Digital Thermometer	Using RTD (PT-100) with Temperature Indicator, Dry Block Bath and Digital Multimeter by Comparison Method	100 °C to 600 °C	2.41 °C
38	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Deep Freezer, Refrigerator, Incubator (For Non-medical purpose only), Oven, Autoclave, Chamber, GC, HPLC (Single Position)	Using Universal Data Logger With RTD Sensor by Comparison Method	(-) 80 °C to 650 °C	2.33 °C
39	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Oven, Furnace (Single Position)	Using Universal Data Logger With RTD Sensor by Comparison Method	650 °C to 1050 °C	3.94 °C

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40	THERMAL-TEMPERATURE	Temperature Indicator with Sensor of Temperature Baths, Dry Block Calibrator, Dry Block Furnace (Single Position)	Using RTD (PT-100) with Temperature Indicator, by Comparison Method	(-) 30 °C to 400 °C	2.33 °C
41	THERMAL-TEMPERATURE	Thermocouple with or without Temperature Indicator / Data-Logger / Recorder / Temperature Gauge / Temperature Transmitter / Digital Thermometer	Using 'S' Type Thermocouple with Temperature Indicator, Digital Multimeter, Dry Block Bath by Comparison Method	600 °C to 1200 °C	3.94 °C

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