



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	ENPRO ENVIROTECH AND ENGINEERS PVT.LTD, D29/16 &17,HOJIWALA INDUSTRIAL ESTATE, ROAD NO. 17, SURAT, GUJARAT, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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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 Digit Multimeter by Direct Method	1 A to 10 A	3.15 % to 0.41 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mA to 1 A	0.16 % to 3.15 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	1.41 % to 0.43 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct method	1 V to 1000 V	0.587 % to 0.1 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.43 % to 0.587 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Multifunction Calibrator by Direct Method	1 A to 10 A	0.71 % to 0.55 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Multifunction Calibrator by Direct Method	1 mA to 1 A	1 % to 0.71 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	0.55 % to 1.26 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Multifunction Calibrator by Direct Method	1 mV to 1 V	2.41 % to 0.39 %



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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Multifunction Calibrator by Direct Method	1 V to 1000 V	0.39 % to 0.25 %
11	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.08 % to 0.19 %
12	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 1 A	0.06 % to 0.08 %
13	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 1 V	0.85 % to 0.11 %
14	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	0.11 % to 0.08 %
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 kohm to 10 kohm	0.012 % to 0.13 %



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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.19 % to 0.026 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	1 Ohm to 100 Ohm	2.54 % to 0.013 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	10 kohm to 100 kohm	0.13 % to 0.022 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	10 Mohm to 100 Mohm	0.026 % to 0.972 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	100 kohm to 1 Mohm	0.022 % to 0.19 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	100 Mohm to 1 Gohm	0.972 % to 2.1 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance - 4 Wire	Using 6½ Digit Multimeter by Direct Method	100 Ohm to 1 kohm	0.013 % to 0.012 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multifunction Calibrator by Direct Method	1 A to 10 A	0.69 % to 0.15 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multifunction Calibrator by Direct Method	1 mA to 1 A	1.01 % to 0.69 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	0.62 % to 1.02 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Multifunction Calibrator by Direct Method	1 mV to 1 V	1.43 % to 0.17 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Multifunction Calibrator by Direct Method	1 V to 1000 V	0.17 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	1 kohm to 100 kohm	0.13 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	1 Mohm to 100 Mohm	0.13 % to 1.16 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	1 Ohm to 100 Ohm	0.43 % to 0.13 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	100 kohm to 1 Mohm	0.13 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	1.16 % to 2.37 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance - 4 Wire	Using Decade Resistance Box by Direct Method	100 Ohm to 1 kohm	0.13 %



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34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 790 °C	0.57 °C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Multifunction Calibrator by Direct Method	600 °C to 1690 °C	2.39 °C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Multifunction Calibrator by Direct Method	100 °C to 590 °C	0.69 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 1190 °C	0.53 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Multifunction Calibrator by Direct Method	50 °C to 1190 °C	0.51 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 1290 °C	0.61 °C



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40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Multifunction Calibrator by Direct Method	600 °C to 1290 °C	1.2 °C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Multifunction Calibrator by Direct Method	50 °C to 1690 °C	1.41 °C
42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 390 °C	0.98 °C
43	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multifunction Calibrator by Direct Method	(-) 199 °C to 790 °C	0.83 °C
44	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Multifunction Calibrator by Direct Method	600 °C to 1600 °C	2.48 °C
45	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Multifunction Calibrator by Direct Method	(-) 90 °C to 590 °C	0.95 °C



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46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 1190 °C	0.97 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 1290 °C	0.98 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 1290 °C	1.04 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Multifunction Calibrator by Direct Method	100 °C to 1690 °C	1.33 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 400 °C	0.95 °C
51	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Comparison Method	5 s to 86400 s	0.64 s to 1.05 s



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52	FLUID FLOW-FLOW MEASURING DEVICES	Anemometer	Using Hot Wire Anemometer by Comparison Method	0.6 m/s to 25 m/s	16.36 %
53	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter, Rotameter, Dry Gas Meter, Flow Calibrator, PM 10 and PM 2.5 Sampler / Combo Sampler	Using Air Flow Calibrator by Comparison Method	0.3 LPM to 1 LPM	3.28 %
54	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter, Rotameter, Dry Gas Meter, Flow Calibrator, PM 10 and PM 2.5 Sampler / Combo Sampler	Using Air Flow Calibrator by Comparison Method	1 LPM to 100 LPM	1.91 %
55	FLUID FLOW-FLOW MEASURING DEVICES	Pitot Tube, Hot Wire Anemometer, Velocity Sensor	Using Standard Pitot Tube by Comparison Method as per 40 CFR Part 60 - APPENDIX A	3 m/s to 25 m/s	3.8 %
56	FLUID FLOW-FLOW MEASURING DEVICES	Volume, Dry Gas At Flow Rate 5 LPM to 120 LPM	Using Orifice Air Flow Calibrator by Comparison Method	0.01 m ³ to 0.6 m ³	3.26 %
57	MECHANICAL-ACCELERATION AND SPEED	Magnetic Stirrer / Centrifuge - (Non Contact Type)	Using Tachometer by Comparison Method	100 rpm to 20000 rpm	0.54 %rdg



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58	MECHANICAL-ACCELERATION AND SPEED	Tachometer - (Contact Type)	Using Tachometer and RPM Generator by Comparison Method	100 rpm to 8000 rpm	1.8 %rdg
59	MECHANICAL-ACCELERATION AND SPEED	Tachometer - (Non Contact Type)	Using Tachometer and RPM Generator by Comparison Method	100 rpm to 20000 rpm	0.54 %rdg
60	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	94 & 114 dB	1.156 dB
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (L.C.: 5 minute)	Using Angle Gauge by Comparison Method	90° - 0 - 90°	4 minute of arc
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - Transmission Error (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1 mm	4.8 µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Foil	Using Electronic Probe with DRO and Comparator Stand by Comparison Method	10 µm to 690 µm	2.3 µm



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64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.001 mm)	Using Coating Thickness Foils by Comparison Method	10 µm to 690 µm	2.03 µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Degree Protractor (L.C.: 1°)	Using Angle Gauge by Comparison Method	90° - 0 - 90°	35 minute of arc
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier Caliper (L.C.: 0.01 mm)	Using Slip Gauge Set, Long Slip Gauge Set by Comparison Method	0 to 200 mm	8.5 µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.01 mm)	Using Slip Gauge by Comparison Method	0 to 10 mm	5.6 µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Micrometer Checker and Slip Gauge Set by Comparison Method	0 to 25 mm	1.5 µm



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69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm)	Using Micrometer Checker, Long Slip Gauge and Slip Gauge Set by Comparison Method	0 to 300 mm	8.3 µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Comparator Stand with Electronic Probe with DRO by Comparison Method	0 to 1 mm	2.8 µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.01 mm)	Using Caliper Checker and Surface Plate by Comparison Method	0 to 1000 mm	15 µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C.: 0.01 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1.5 mm	3.8 µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 1 mm)	Using Tape and Scale Calibrator by Comparison Method	0 to 50 m	310 x Sqrt (L / 1000) µm, Where "L" is in mm



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74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Piece	Using Comparator Stand with DRO and Slip Gauge Set by Comparison Method	25 mm to 275 mm	2.3 μ m
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Comparator Stand with DRO and Slip Gauge Set by Comparison Method	3 mm to 100 mm	1.8 μ m
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 1 mm	2.5 μ m
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method	0 to 10 mm	3.5 μ m
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C.: 0.01 mm)	Using Comparator Stand with DRO and Slip Gauge Set by Comparison Method	0 to 50 mm	4.8 μ m



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79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Scale (L.C.: 1 mm)	Using Tape and Scale Calibrator by Comparison Method	0 to 1000 mm	176 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.1 mm)	Using Slip Gauge Set and Long Slip Gauge Set by Comparison Method	0 to 200 mm	57.8 µm
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.: 0.01 mm)	Using Caliper Checker by Comparison Method	0 to 300 mm	10.7 µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C.: 0.02 mm)	Using Caliper Checker by Comparison Method	0 to 1000 mm	14.7 µm
83	MECHANICAL-PRESSURE INDICATING DEVICES	Barometer	Using Absolute Pressure Gauge and Vacuum Pump by Comparison Method as per OIML R-97	950 mbar to 1050 mbar	0.91 mbar



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84	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Gauge, Pressure Transmitter, Pressure Sensor, Pressure Indicator - Hydraulic Pressure	Using Digital Pressure Gauge with Hydraulic Pump and Pressure Indicator by Comparison Method as per DKD R 6-1	0 to 700 bar	0.59 bar
85	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Gauge, Pressure Transmitter, Pressure Sensor, Pressure Indicator, Manometer, Magnehelic Gauge, Differential Pressure Gauge	Using Digital Manometer with Pneumatic Pump and Pressure Indicator by Comparison Method as per DKD R 6-1	0 to 900 mbar	0.59 mbar
86	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Gauge, Pressure Transmitter, Pressure Sensor, Pressure Indicator - Pneumatic Pressure	Using Digital Pressure Gauge with Pneumatic Pump, Pressure Indicator by Comparison Method as per DKD R 6-1	0 to 2 bar	0.0015 bar
87	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Gauge, Pressure Transmitter, Pressure Sensor, Pressure Indicator - Pneumatic Pressure	Using Digital Pressure Gauge with Pneumatic Pump, Pressure Indicator by Comparison Method as per DKD R 6-1	0 to 40 bar	0.01 bar



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88	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge	Using Digital Vacuum Gauge with Pneumatic Pump by Comparison Method as per DKD R 6-1	(-) 0.85 bar to 0 bar	0.0019 bar
89	MECHANICAL-VOLUME	Micro Pipette	Using Digital Micro Balance (Readability : 0.001 mg) by Gravimetric Method as per ISO 8655 : 2022	> 10 µl to 100 µl	0.24 µl
90	MECHANICAL-VOLUME	Micro Pipette	Using Digital Micro Balance (Readability : 0.001 mg) by Gravimetric Method as per ISO 8655 : 2022	> 100 µl to 1000 µl	4.75 µl
91	MECHANICAL-VOLUME	Micro Pipette	Using Digital Micro Balance (Readability : 0.001 mg) by Gravimetric Method as per ISO 8655 : 2022	1 µl to 10 µl	0.2 µl
92	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Flask, Beaker, NOx Apparatus	Using Digital Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 4787 : 2021	> 10 ml to 100 ml	50 µl



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93	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Flask, Beaker, NOx Apparatus	Using Digital Weighing Balance (Readability : 10 mg) by Gravimetric Method as per ISO 4787 : 2021	> 100 ml to 500 ml	0.36 ml
94	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Flask, Beaker, NOx Apparatus	Using Digital Weighing Balance (Readability : 10 mg) by Gravimetric Method as per ISO 4787 : 2021	> 1000 ml to 5 l	2.4 ml
95	MECHANICAL-VOLUME	Pipette, Burette, Measuring Cylinder, Flask, Beaker, NOx Apparatus	Using Digital Semi Micro Balance (Readability : 0.01 mg) by Gravimetric Method as per ISO 4787 : 2021	1 ml to 10 ml	16.7 µl
96	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	0 to 11 g	0.034 mg
97	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	0 to 100 g	0.3 mg
98	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.1 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	0 to 200 g	0.3 mg



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99	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 1 mg)	Using E1, E2 Class Weights by Comparison Method as per OIML R-76-1	0 to 1 kg	2.32 mg
100	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 10 mg)	Using E1, E2 Class Weights by Comparison Method as per OIML R-76-1	0 to 6 kg	26.8 mg
101	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 100 mg)	Using F1 Class Weights by Comparison Method as per OIML R-76-1	0 to 10 kg	0.24 g
102	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class III and Coarser (Readability: 1 g)	Using F1 Class Weights by Comparison Method as per OIML R-76-1	0 to 50 kg	2.9 g
103	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	1 g	0.006 mg



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104	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	1 mg	0.002 mg
105	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	10 g	0.012 mg
106	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	10 mg	0.002 mg
107	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	100 g	0.04 mg



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108	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	100 mg	0.004 mg
109	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	2 g	0.0071 mg
110	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	2 mg	0.002 mg
111	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	20 g	0.018 mg



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112	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	20 mg	0.003 mg
113	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	200 g	0.1 mg
114	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	200 mg	0.006 mg
115	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	5 g	0.01 mg



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116	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	5 mg	0.002 mg
117	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.01 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	50 g	0.03 mg
118	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	50 mg	0.004 mg
119	MECHANICAL-WEIGHTS	Weight (E2 Class and Coarser)	Using E1 Class Weight and Balance (Readability : 0.001 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	500 mg	0.008 mg



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120	MECHANICAL-WEIGHTS	Weight (F1 Class and Coarser)	Using E2 Class Weight and Balance (Readability : 1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	1 kg	1.6 mg
121	MECHANICAL-WEIGHTS	Weight (F1 Class and Coarser)	Using E2 Class Weight and Balance (Readability : 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R-111	2 kg	3 mg
122	MECHANICAL-WEIGHTS	Weight (F1 Class and Coarser)	Using E2 Class Weight and Balance (Readability : 0.01 g) by Substitution Method (ABBA Cycle) as per OIML R-111	5 kg	7.5 mg
123	MECHANICAL-WEIGHTS	Weight (F1 Class and Coarser)	Using E2 Class Weight and Balance (Readability : 1 mg) by Substitution Method (ABBA Cycle) as per OIML R-111	500 g	0.85 mg



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124	MECHANICAL-WEIGHTS	Weight (M2 Class and Coarser)	Using F1 Class Weight and Balance (Readability : 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R-111	10 kg	211 mg
125	MECHANICAL-WEIGHTS	Weight (M2 Class and Coarser)	Using F1 Class Weight and Balance (Readability : 1 g) by Substitution Method (ABBA Cycle) as per OIML R-111	50 kg	2.5 g
126	MECHANICAL-WEIGHTS	Weights (M3 Class)	Using F1 Class Weight and Balance (Readability : 0.1 g) by Substitution Method (ABBA Cycle) as per OIML R-111	20 kg	1.16 g
127	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer @ 50 %RH	Using Temperature and RH Indicator with Sensor, Temperature and Humidity Chamber by Comparison Method	10 °C to 50 °C	0.64 °C



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128	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer, RH Indicator with Sensor @ 25 °C	Using Temperature and RH Indicator with Sensor, Temperature and Humidity Chamber by Comparison Method	20 %RH to 90 %RH	1.9 %RH
129	THERMAL-TEMPERATURE	IR Thermometer (Emissivity 0.95)	Using IR Thermometer with Black Body Source by Comparison Method	50 °C to 500 °C	3.157 °C
130	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Digital Thermometer	Using RTD Sensor with Indicator and Negative Bath (Medium - Methanol) by Comparison Method	(-) 5 °C to 50 °C	0.13 °C
131	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Digital Thermometer	Using RTD Sensor with Indicator and Oil Bath by Comparison Method	> 50 °C to 250 °C	0.95 °C
132	THERMAL-TEMPERATURE	RTD Sensor with or without Indicator, Temperature Gauge	Using RTD with Indicator, Multifunction Calibrator, Low Temperature Bath by Comparison Method	(-) 35 °C to 50 °C	0.29 °C



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133	THERMAL-TEMPERATURE	RTD Sensor with or without Indicator, Temperature Gauge	Using RTD Sensor with Indicator, Multifunction Calibrator, Dry Block by Comparison Method	> 250 °C to 400 °C	0.34 °C
134	THERMAL-TEMPERATURE	RTD Sensor with or without Indicator, Temperature Gauge	Using RTD Sensor with Indicator, Multifunction Calibrator, Oil Bath by Comparison Method	> 50 °C to 250 °C	0.23 °C
135	THERMAL-TEMPERATURE	Thermocouple with or without Indicator	Using S Type Thermocouple with Indicator, Multifunction Calibrator and Dry Block by Comparison Method	400 °C to 1200 °C	2.45 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	3.15 % to 0.41 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mA to 1 A	0.16 % to 3.15 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	1 mV to 100 mV	1.41 % to 0.43 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct method	1 V to 1000 V	0.587 % to 0.1 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.43 % to 0.587 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Multifunction Calibrator by Direct Method	1 A to 10 A	0.71 % to 0.55 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Multifunction Calibrator by Direct Method	1 mA to 1 A	1 % to 0.71 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5½ Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	0.55 % to 1.26 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Multifunction Calibrator by Direct Method	1 mV to 1 V	2.41 % to 0.39 %



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10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5½ Multifunction Calibrator by Direct Method	1 V to 1000 V	0.39 % to 0.25 %
11	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 A to 10 A	0.08 % to 0.19 %
12	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 1 A	0.06 % to 0.08 %
13	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 mV to 1 V	0.85 % to 0.11 %
14	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 1000 V	0.11 % to 0.08 %
15	ELECTRO-TECHNICAL- DIRECT CURRENT (Source)	DC Current	Using 5½ Multifunction Calibrator by Direct Method	1 A to 10 A	0.69 % to 0.15 %



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16	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multifunction Calibrator by Direct Method	1 mA to 1 A	1.01 % to 0.69 %
17	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5½ Multifunction Calibrator with Current Coil by Direct Method	10 A to 1000 A	0.62 % to 1.02 %
18	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Multifunction Calibrator by Direct Method	1 mV to 1 V	1.43 % to 0.17 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5½ Multifunction Calibrator by Direct Method	1 V to 1000 V	0.17 %
20	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 790 °C	0.57 °C
21	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Multifunction Calibrator by Direct Method	600 °C to 1690 °C	2.39 °C



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22	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Multifunction Calibrator by Direct Method	100 °C to 590 °C	0.69 °C
23	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 1190 °C	0.53 °C
24	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Multifunction Calibrator by Direct Method	50 °C to 1190 °C	0.51 °C
25	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 1290 °C	0.61 °C
26	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Multifunction Calibrator by Direct Method	600 °C to 1290 °C	1.2 °C
27	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Multifunction Calibrator by Direct Method	50 °C to 1690 °C	1.41 °C



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28	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 390 °C	0.98 °C
29	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Multifunction Calibrator by Direct Method	(-) 199 °C to 790 °C	0.83 °C
30	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Multifunction Calibrator by Direct Method	600 °C to 1600 °C	2.48 °C
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Multifunction Calibrator by Direct Method	(-) 90 °C to 590 °C	0.95 °C
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 1190 °C	0.97 °C
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 1290 °C	0.98 °C



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34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 1290 °C	1.04 °C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Multifunction Calibrator by Direct Method	100 °C to 1690 °C	1.33 °C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Multifunction Calibrator by Direct Method	(-) 190 °C to 400 °C	0.95 °C
37	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Calibrator by Comparison Method	5 s to 86400 s	0.64 s to 1.05 s
38	FLUID FLOW-FLOW MEASURING DEVICES	Analog, Digital Water Flow Meter, Volume Flow Rate - Liquid	Using Ultrasonic Flow Meter by Comparison Method	1 m ³ / hour to 450 m ³ / hour	1.7 %
39	FLUID FLOW-FLOW MEASURING DEVICES	Flow Meter, Rotameter, Dry Gas Meter, Flow Calibrator, PM 10 and PM 2.5 Sampler / Combo Sampler	Using Air Flow Calibrator by Comparison Method	0.3 LPM to 1 LPM	3.28 %



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40	FLUID FLOW- FLOW MEASURING DEVICES	Flow Rate of Respirable Dust Volume Sampler, High Volume Sampler, PM 10 Sampler	Using Top Loading Calibrator by Comparison Method as per USEPA - Method IO - 2.1	0.6 m ³ / minute to 1.4 m ³ / minute	3.1 %
41	MECHANICAL- ACCELERATION AND SPEED	Magnetic Stirrer / Centrifuge - (Non Contact Type)	Using Tachometer by Comparison Method	100 rpm to 20000 rpm	0.54 %rdg
42	MECHANICAL- ACCELERATION AND SPEED	Tachometer - (Non Contact Type)	Using Tachometer and RPM Generator by Comparison Method	100 rpm to 20000 rpm	0.54 %rdg
43	MECHANICAL- PRESSURE INDICATING DEVICES	Digital / Analog Pressure Gauge, Pressure Transmitter, Pressure Sensor, Pressure Indicator - Hydraulic Pressure	Using Digital Pressure Gauge with Hydraulic Pump and Pressure Indicator by Comparison Method as per DKD R 6-1	0 to 700 bar	0.59 bar
44	MECHANICAL- PRESSURE INDICATING DEVICES	Digital / Analog Pressure Gauge, Pressure Transmitter, Pressure Sensor, Pressure Indicator, Manometer, Magnehelic Gauge, Differential Pressure Gauge	Using Digital Manometer with Pneumatic Pump and Pressure Indicator by Comparison Method as per DKD R 6-1	0 to 900 mbar	0.59 mbar



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45	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Gauge, Pressure Transmitter, Pressure Sensor, Pressure Indicator - Pneumatic Pressure	Using Digital Pressure Gauge with Pneumatic Pump, Pressure Indicator by Comparison Method as per DKD R 6-1	0 to 2 bar	0.0015 bar
46	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Gauge, Pressure Transmitter, Pressure Sensor, Pressure Indicator - Pneumatic Pressure	Using Digital Pressure Gauge with Pneumatic Pump, Pressure Indicator by Comparison Method as per DKD R 6-1	0 to 40 bar	0.01 bar
47	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge	Using Digital Vacuum Gauge with Pneumatic Pump by Comparison Method as per DKD R 6-1	(-) 0.85 bar to 0 bar	0.0019 bar
48	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.001 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	0 to 11 g	0.034 mg
49	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.01 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	0 to 100 g	0.3 mg



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50	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 0.1 mg)	Using E1 Class Weights by Comparison Method as per OIML R-76-1	0 to 200 g	0.3 mg
51	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class I and Coarser (Readability: 1 mg)	Using E1, E2 Class Weights by Comparison Method as per OIML R-76-1	0 to 1 kg	2.32 mg
52	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 10 mg)	Using E1, E2 Class Weights by Comparison Method as per OIML R-76-1	0 to 6 kg	26.8 mg
53	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class II and Coarser (Readability: 100 mg)	Using F1 Class Weights by Comparison Method as per OIML R-76-1	0 to 10 kg	0.24 g
54	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Balance Accuracy Class III and Coarser (Readability: 1 g)	Using F1 Class Weights by Comparison Method as per OIML R-76-1	0 to 50 kg	2.9 g
55	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo Hygrometer, RH Indicator with Sensor @ 25 °C	Using Temperature and RH Indicator with Sensor, Temperature and Humidity Chamber by Comparison Method	20 %RH to 90 %RH	1.9 %RH



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56	THERMAL-TEMPERATURE	Autoclave, Oven, Chamber - Multi Position (Minimum 9 Sensors)	Using RTD Sensor with Datalogger by Comparison Method	40 °C to 130 °C	3.23 °C
57	THERMAL-TEMPERATURE	Freezer - Multi Position (Minimum 9 Sensors)	Using RTD Sensor with Datalogger by Comparison Method	(-) 5 °C to 10 °C	3.1 °C
58	THERMAL-TEMPERATURE	Indicator with sensor of Chamber, Freezer, Bath - Single Position	Using RTD with Indicator by Comparison Method	(-) 40 °C to 50 °C	3 °C
59	THERMAL-TEMPERATURE	Indicator with Sensor of Dry Block - Single Position	Using RTD Sensor with Indicator by Comparison Method	25 °C to 250 °C	2.51 °C
60	THERMAL-TEMPERATURE	Indicator with Sensor of Environmental Chamber, BOD Incubator, COD Digester (Non Medical Application) - Single Position	Using RTD Sensor with Indicator by Comparison Method	25 °C to 250 °C	0.59 °C
61	THERMAL-TEMPERATURE	Indicator with Sensor of Furnace - Single Position	Using S Type Thermocouple with Indicator by Comparison Method	250 °C to 1200 °C	2.51 °C
62	THERMAL-TEMPERATURE	Indicator with Sensor of Hot Air Oven - Single Position	Using RTD with Indicator by Comparison Method	40 °C to 400 °C	0.59 °C



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63	THERMAL-TEMPERATURE	Indicator with Sensor of Liquid Bath - Single Position	Using RTD Sensor with Indicator by Comparison Method	(-) 35 °C to 250 °C	0.23 °C
64	THERMAL-TEMPERATURE	Indicator with Sensor of Oven, Autoclave, Bath, Incubator, COD Digester, Furnace - Single Position	Using RTD with Indicator by Comparison Method	25 °C to 400 °C	3 °C
65	THERMAL-TEMPERATURE	RTD Sensor with or without Indicator, Temperature Gauge	Using RTD with Indicator, Multifunction Calibrator, Low Temperature Bath by Comparison Method	(-) 35 °C to 50 °C	0.29 °C
66	THERMAL-TEMPERATURE	RTD Sensor with or without Indicator, Temperature Gauge	Using RTD Sensor with Indicator, Multifunction Calibrator, Dry Block by Comparison Method	> 250 °C to 400 °C	0.34 °C
67	THERMAL-TEMPERATURE	RTD Sensor with or without Indicator, Temperature Gauge	Using RTD Sensor with Indicator, Multifunction Calibrator, Oil Bath by Comparison Method	> 50 °C to 250 °C	0.23 °C



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68	THERMAL-TEMPERATURE	Thermocouple with or without Indicator	Using S Type Thermocouple with Indicator, Multifunction Calibrator and Dry Block by Comparison Method	400 °C to 1200 °C	2.45 °C

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