National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MASTERTECH SYSTEMS CALIBRATION SERVICES (OPC) PRIVATE LIMITED, ANJALI NIKETAN, FLAT NO.3, 2ND FLOOR, VIVEKNAGAR, AKURDI, PUNE, PUNE, PUNE, MAHARASHTRA, 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 6 ½ DMM, Multifunction calibrator by Direct /Comparison Method	0.1 A to 1 A	0.6 % to 0.2 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	1 A to 10 A	0.2 % to 0.3 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	1 mA to 100 mA	1.06 % to 0.6 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	0.1 V to 100 V	0.2%

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	1 mV to 100 mV	4.8 % to 0.2 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	100 V to 750 V	0.2%
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ MFC by Direct Method	0.2 mA to 2 mA	0.3 % to 0.2 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ MFC With Current Coil by Direct Method	10 A to 1000 A	0.98%
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ MFC by Direct Method	2 A to 10 A	0.2 % to 0.3 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ MFC by Direct Method	2 mA to 20 mA	0.2%
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ MFC by Direct Method	20 mA to 200 mA	0.2%
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ MFC by Direct Method	200 mA to 2000 mA	0.2%
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5 ½ MFC by Direct Method	0.2 V to 2 V	0.2%
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5 ½ MFC by Direct Method	2 V to 20 V	0.2%
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5 ½ MFC by Direct Method	20 V to 200 V	0.2%

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5 ½ MFC by Direct Method	200 V to 1000 V	0.2%
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5 ½ MFC by Direct Method	5 mV to 200 mV	1.2 % to 0.2 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy(1 phase /3 phase)@50 Hz,40 V to 300 V,& 0.5 A to 6 A,+/- 0.5 to 0.999 UPF	Using 3 Phase Power Energy Meter Calibrator by Direct Method	5 Wh to 5.4 kWh	0.3%
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Power(1 phase /3 phase)@50 Hz,40 V to 300 V,& 0.5 A to 6 A,+/- 0.5 PF to 0.999 UPF	Using 3 Phase Power Energy Meter Calibrator by Direct Method	10 W to 5.4 kW	0.98%
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor(Lead/Lag to Unity) @ 250 V & 5 A, 45Hz to 60 Hz	Using 3 Phase Power Energy Meter Calibrator by Direct Method	0.1 PF to 0.999 UPF	0.01PF
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Reactive Energy(1 phase /3 phase)@50 Hz,40 V to 300 V,& 0.5 A to 6 A,+/- 0.5 to 0.999 UPF	Using 3 Phase Power Energy Meter Calibrator by Direct Method	6 VArh to 5.4 kVArh	0.3%

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22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Reactive Power(1 phase /3 phase)@50 Hz,40 V to 300 V,& 0.5 A to 6 A,+/- 0.5 to 0.999 UPF	Using 3 Phase Power Energy Meter Calibrator by Direct Method	10 VAr to 5.4 kVAr	0.3%
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	0.1 A to 1 A	0.25%
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	1 A to 10 A	0.25 % to 0.15 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	1 mA to 100 mA	0.30 % to 0.25 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using DC Shunt With DMM by Direct Method	10 A to 1000 A	0.75 % to 1.4 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6 ½ DMM By Direct Method	1 M ohm to 10 M ohm	0.02 % to 0.05 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6 ½ DMM by Direct Method	1 ohm to 100 ohm	0.5 % to 0.02 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6 ½ DMM By Direct Method	10 M ohm to 100 M ohm	0.05 % to 0.94 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6 ½ DMM By Direct Method	100 kohm to 1 Mohm	0.02%
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6 ½ DMM By Direct Method	100 ohm to 100 k ohm	0.02%
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	0.1 V to 100 V	0.01%
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	1 mV to 100 mV	0.45 % to 0.01 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	100 V to 1000 V	0.01%
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ MFC by Direct Method	0.2 mA to 2 mA	0.2 % to 0.15 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ MFC With Current Coil by Direct Method	10 A to 1000 A	1%
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ MFC by Direct Method	2 A to 10 A	0.15 % to 0.2 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ MFC by Direct Method	2 mA to 20 mA	0.15%
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ MFC by Direct Method	20 mA to 200 mA	0.15%

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ MFC by Direct Method	200 mA to 2000 mA	0.15%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box By Direct Method	1 kohm to 1000 kohm	0.2%
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box By Direct Method	1 Mohm to 10 Mohm	0.2%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box By Direct Method	1 ohm to 10 ohm	0.3 % to 0.2 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box By Direct Method	10 Mohm to 100 Mohm	0.2%
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box By Direct Method	10 ohm to 1000 ohm	0.2%

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box By Direct Method	100 Mohm to 1000 Mohm	0.2 % to 0.6 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ MFC by Direct Method	0.2 V to 2 V	0.2%
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ MFC by Direct Method	1 mV to 200 mV	1.5 % to 0.2 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ MFC by Direct Method	2 V to 20 V	0.2%
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ MFC by Direct Method	20 V to 200 V	0.2%
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ MFC by Direct Method	200 V to 1000 V	0.2%

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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Precision Calibrator By Direct Method	(-) 200 °C to 800 °C	0.2 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B-TYPE	Using Precision Calibrator By Direct Method	600 °C to 1820 °C	1.42°C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E-Type	Using Precision Calibrator By Direct Method	(-)200 °C to 1000 °C	0.4°C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J-TYPE	Using Precision Calibrator By Direct Method	(-) 200 °C to 760 ° C	0.6°C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K-TYPE	Using Precision Calibrator By Direct Method	(-) 200 to 1370 ° C	1.22° C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N-TYPE	Using Precision Calibrator By Direct Method	(-) 200 °C to 1250 °C	0.7° C

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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R-TYPE	Using Precision Calibrator By Direct Method	5 °C to 1750 °C	1.4°C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S-TYPE	Using Precision Calibrator By Direct Method	5 ° C to 1750 ° C	1.4° C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T-TYPE	Using Precision Calibrator By Direct Method	(-) 100 °C to 350 °C	0.7 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Precision Calibrator By Direct Method	(-) 200 °C °C to 600 °C	0.63°C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B-TYPE	Using Precision Calibrator By Direct Method	600 °C to 1820 °C	2.14°C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E-TYPE	Using Precision Calibrator By Direct Method	(-) 200 °C to 1000 °C	0.5°C

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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J-TYPE	Using Precision Calibrator By Direct Method	(-) 200 °C to 760 °C	0.6° C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K-TYPE	Using Precision Calibrator By Direct Method	(-) 200 to 1370 °C	0.6° C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N-TYPE	Using Precision Calibrator By Direct Method	(-) 200 ° C to 1250 °C	0.9° C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R-TYPE	Using Precision Calibrator By Direct Method	50 °C to 1750 °C	1.0°C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S-TYPE	Using Precision Calibrator By Direct Method	50 ° C to 1750 ° C	1.2° C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T-TYPE	Using Precision Calibrator By Direct Method	(-) 100 °C to 350 °C	0.5 °C

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70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	45 Hz to 1000 Hz	0.12%
71	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator By Comparison method	1 s to 60 s	0.02 s to 0.15 s
72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator By Direct method	3600 s to 86400 s	1.1 s to 16.3 s
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator By Comparison method	60 s to 3600 s	0.15 s to 1.1 s
74	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5 ½ MFC by Direct Method	45 Hz to 1000 Hz	0.05 % to 0.06 %
75	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non Contact)	Using Digital Tachometer, RPM Generator by comparison method	1000 rpm to 10000 rpm	3.71rpm

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76	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non Contact)	Using Digital Tachometer, RPM Generator by comparison method	10000 rpm to 90000 rpm	3.72rpm
77	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non Contact)	Using Digital Tachometer, RPM Generator by comparison method	10 rpm to 1000 rpm	1.70rpm
78	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Contact)	Using Digital Tachometer by comparison method	10 rpm to 8000 rpm	2.14rpm
79	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator of RPM Generator Centrifuge, Vertex Mixure, Stirrer (Non Contact)	Using Digital Tachometer by comparison method	10 rpm to 1000 rpm	1.70rpm
80	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator of RPM Generator Centrifuge, Vertex Mixure, Stirrer (Non Contact)	Using Digital Tachometer by comparison method	1000 rpm to 10000 rpm	3.71rpm
81	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator of RPM Generator Centrifuge, Vertex Mixure, Stirrer (Non Contact)	Using Digital Tachometer by comparison method	10000 rpm to 20000 rpm	3.75rpm

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82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Inclinometer (L.C. 1 minute)	Using Angle Gauge Set by Comparison method	90°- 0°- 90 °	10 minute of Arc
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Electronic (L.C. 0.01 mm & Coarser)	Using Caliper Checker by Comparison method	0 to 600 mm	14µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C. 0.001 mm & Coarser)	Using Thickness Foils by Comparison Method	20 µm to 1999 µm	9.56µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set / Angle Protractor (L.C. 1°)	Using Angle Gauge Set by Comparison Method	0°-90° - 0°	10.04 minute of arc
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Dial / Electronic (L.C. 0.01 mm & Coarser)	Using Slip Gauge Set, Surface Plate by Comparison method	0 to 200 mm	12µm

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87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C. 0.001 mm & Coarser)	Using Slip Gauge set, Surface Plate by Comparison method	0 to 200 mm	13µm
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge (for transmission mechanism) (L.C. 0.001 mm & Coarser)	Using Dial Calibration Tester, Electronic Probe with DRO by Comparison method	0 to 1 mm	3.2µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C. 0.001 mm & Coarser)	Using Slip Gauge Set by Comparison Method	0 to 25 mm	1.27µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C. 0.001 mm & Coarser)	Using Slip Gauge Set , by Comparison method	0 to 100 mm	2.44µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C. 0.001 mm & Coarser)	Using Slip Gauge Set by Comparison method	100 mm to 300 mm	6µm

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92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic Probe With D.R.O. & Comparator Stand by Comparison method	0.005 mm to 2 mm	2.6µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Electronic (L.C. 0.01 mm & Coarser)	Using Caliper Checker, Surface Plate by Comparison method	0 to 600 mm	12µm
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C. 0.001 mm & Coarser)	Using Slip Gauge Set, Comparator stand by Comparison method	5 mm to 50 mm	3.94µm
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer Two Point (L.C. 0.001 mm & Coarser)	Using Slip Gauge Set, Comparator stand by Comparison method	5 mm to 300 mm	6.03 µm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C. 0.001 mm & Coarser)	Using Dial Calibration Tester by Comparison method	0 to 1 mm	1.3µm

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97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Slip Gauge set, Electronic Probe With D.R.O. & Comparator Stand by Comparison method	0.01 mm to 20 mm	2.58µm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Electronic Probe With D.R.O. & Comparator Stand, Slip Gauge by Comparison method	100 mm to 300 mm	2.3µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Electronic Probe With D.R.O. & Comparator Stand, Slip Gauge by Comparison method	up to 100 mm	0.91µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C. 0.1 mm & Coarser)	Using Slip Gauge Set by Comparison Method	0 to 100 mm	30µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width Gauge / Height Master	Using Electronic Probe With D.R.O. & Comparator Stand, Slip Gauge Set by Comparison method	1 mm to 250 mm	3.45µm

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102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap / Gap Gauge	Using Slip Gauges by Comparison method	2 mm to 250 mm	6.2µm
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (L.C. 0.001 mm & Coarser)	Using Dial Calibration Tester by Comparison method	0 to 25 mm	2µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (L.C. 0.001 mm & Coarser)	Using Dial Calibration Tester by Comparison method	25 mm to 50 mm	2µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Precision Sprit Level by Comparison method	Up to 2500 X 2500 mm	2.41 sqrt(L+W)/125}µm, Where 'L' & 'W' in mm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using Electronic Probe With D.R.O. & Comparator Stand by Comparison method	0.01 mm to 2 mm	1.57µm

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107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C. 0.01 mm & Coarser)	Using Height Master set by Comparison Method	1 mm to 200 mm	57.90µm
108	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Indicating Instruments / Gauges, Magnehelic Gauge, Differential Pressure Transmitter, Differential Pressure Switch, Manometer	Using Digital Pressure Calibrator with Pneumatic Pump (Air), 6 ½ DMM by comparison method based on DKD-R 6-1	0 to 20 mbar	0.03mbar
109	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Indicating Instruments / Gauges/ Pressure Switch/ Pressure Transmitter With / Without Indicator	Using Digital Pressure Calibrator with Hydraulic Pump (Water/Oil), 6 ½ DMM by comparison method based on DKD-R 6-1	0 to 60 bar	0.041bar

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110	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Indicating Instruments / Gauges/Pressure Switch/ Differential Pressure Transmitter , Differential Pressure Switch, Pressure Transmitter With / Without Indicator	Using Digital Pressure Calibrator with Pneumatic Pump (Air), 6 ½ DMM by comparison method as per ISO 3567 & 27893	(-)20 mbar to 0	0.064mbar
111	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Indicating Instruments / Gauges/Pressure Switch/ Differential Pressure Transmitter, Differential Pressure Switch, Pressure Transmitter With /Without Indicator	Using Digital Pressure Calibrator with Pneumatic Pump (Air), 6 ½ DMM by comparison method based on DKD-R 6-1	0 to 5 bar	0.001bar
112	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Indicating Instruments / Gauges/Pressure Switch/ Pressure Transmitter With / Without Indicator	Using Digital Pressure Calibrator with Pneumatic Pump (Air) , 6 ½ DMM by comparison method based on DKD-R 6-1	0 to 20 bar	0.064bar

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113	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Indicating Instruments / Gauges/Pressure Transmitter With / Without Indicator	Using Digital Pressure Calibrator with Hydraulic Pump (Water/Oil), 6 ½ DMM by comparison method based on DKD-R 6-1	0 to 700 bar	0.15 bar
114	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Vacuum Indicating Instruments / Gauges/Vacuum Switch/ Vacuum Transmitter With / Without Indicator	Using Digital Pressure Calibrator with Pneumatic Pump (Air), 6 ½ DMM by comparison method based on ISO 3567 & 27893	(-)0.9 bar to 0	0.0009bar
115	MECHANICAL-VOLUME	Glassware/Plastic Volumetric Apparatus, Measuring Cylinder, Dispenser, Pipette, Burette, Conical / Volumetric Flask, Beaker	Using Weighing Balance (Readability:0.01 g/6200 g capacity) by Gravimetric method based on ISO 4787 and ASTM E542	>1 l to 5 l	7.3ml
116	MECHANICAL-VOLUME	Glassware/Plastic Volumetric Apparatus, Measuring Cylinder, Dispenser, Pipette, Burette, Conical / Volumetric Flask, Beaker	Using Weighing Balance (Readability:0.1mg/220 g capacity) by Gravimetric method based on ISO 4787and ASTM E542	>50 ml to 150 ml	0.08ml

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117	MECHANICAL-VOLUME	Glassware/Plastic Volumetric Apparatus, Measuring Cylinder, Dispenser, Pipette, Burette, Conical / Volumetric Flask, Beaker	Using Weighing Balance (Readability:1 mg/1000 g capacity) by Gravimetric method based on ISO 4787 and ASTM E542	>500 ml to 700 ml	0.80ml
118	MECHANICAL-VOLUME	Glassware/Plastic Volumetric Apparatus, Measuring Cylinder, Dispenser, Pipette, Burette, Conical / Volumetric Flask, Beaker	Using Weighing Balance (Readability:0.01mg/ 0.1 mg/60g Capacity) by Gravimetric method based on ISO 4787 and ASTM E542	1 ml to 50 ml	0.08ml
119	MECHANICAL-VOLUME	Micropipette	Using Weighing Balance (Readability:0.01mg/ 60g Capacity) by Gravimetric method as per ISO 8655-6 : 2002	>10 µl to 100 µl	1.40 µl
120	MECHANICAL-VOLUME	Micropipette	Using Weighing Balance (Readability:0.01mg/ 60g Capacity) by Gravimetric method as per ISO 8655-6:2002	>100 µl to 200 µl	1.77µl

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121	MECHANICAL-VOLUME	Micropipette	Using Weighing Balance (Readability:0.01mg/ 60g Capacity) by Gravimetric method as per ISO 8655-6 : 2002	>200 µl to 1000 µl	1.89µl
122	MECHANICAL-VOLUME	Volume - Glassware/Plastic Volumetric Apparatus, Measuring Cylinder, Dispenser, Pipette, Burette, Conical / Volumetric Flask, Beaker	Using Weighing Balance (Readability : 1 mg/1000 g capacity) by Gravimetric method based on ISO 4787 and ASTM E542	>150 ml to 500 ml	0.58ml
123	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability:10 mg (Class II and coarser)	Using E2 Accuracy and F1 Accuracy Class Weight as per OIML-R-76-1	>200 g to 1000 g	20mg
124	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 0.5 g (Class III and coarser)	Using E2 Accuracy and F1 Accuracy Class Weights based on OIML-R-76-1	>6.2 kg to 20 kg	1000mg
125	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 1 g (Class III and coarser)	Using E2 Accuracy and F1 Accuracy Class Weights based on OIML-R-76-1	>20 kg to 100 kg	3g

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126	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 50 g (Class IIII)	Using F1 and M1 Accuracy Class Weights based on OIML-R-76-1	>200 kg to 300 kg	100g
127	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability:100 mg (Class II and coarser)	Using E2 Accuracy and F1 Accuracy Class Weights Based on OIML-R-76-1	0 to 6200 g	200mg
128	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability:20 g (Class IIII and coarser)	Using F1 Accuracy Class and M1 Accuracy class Weights Based on OIML-R-76-1	>100 kg to 200 kg	40g
129	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance-Class II and coarser (readability:1 mg and coarser)	Using E2 Accuracy Class Weights Based on OIML R76-1:2006	0 to 200 g	2mg
130	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:60 g, Readability : 0.01 mg) by Substitution/ABBA cycle (5) Method as per OIML R 111-1: 2004	1 g	0.013mg

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131	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:60 g, Readability : 0.01mg) by Substitution/ABBA cycle (5) method as per OIML R 111-1: 2004	10 g	0.015mg
132	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:220 g, Readability : 0.1 mg) by Substitution/ABBA cycle (5) Method as per OIML R 111-1: 2004	100 g	0.15mg

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133	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:60 g, Readability : 0.01mg) by Substitution/ABBA cycle (5) Method as per OIML R 111-1:2004	2 g	0.015mg
134	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:60 g, Readability : 0.01mg) by Substitution/ABBA cycle (5)Method as per OIML R 111-1: 2004	20 g	0.015 mg

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135	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:220 g, Readability : 0.1mg) by Substitution/ABBA cycle (5) Method as per OIML R 111-1: 2004	200 g	0.17mg
136	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:60 g, Readability : 0.01mg) Substitution/ABBA cycle (5) Method as per OIML R 111-1: 2004	5 g	0.015mg

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137	MECHANICAL-WEIGHTS	Weight (F1 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:60 g, Readability : 0.01 mg) by Substitution/ABBA cycle (5) Method as per OIML R 111-1: 2004	50 g	0.02mg
138	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class and Coarser)	Using F1 Accuracy Class Standard weight box and Digital Weighing Balance(Capacity:1020g, Readability : 1 mg) by Substitution/ABBA cycle (5) Method as per OIML R111-1: 2004	1 kg	4.4mg

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139	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:60 g, Readability : 0.01 mg) by Substitution/ABBA cycle (5) method as per OIML R 111-1: 2004	1 mg	0.008mg
140	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:60 g, Readability : 0.01 mg)Substitution/ABBA cycle (5) Method as per OIML R 111-1: 2004	10 mg	0.008mg

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141	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:60 g, Readability : 0.01 mg) by Substitution/ABBA cycle (5) method as per OIML R 111-1: 2004	100 mg	0.013mg
142	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class and Coarser)	Using F1 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity: 6200 g, Readability :10 mg) as per OIML R111-1: 2004	2 kg	7.1mg
143	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:60 g, Readability : 0.01 mg) by Substitution/ ABBA cycle (5) method as per OIML R 111-1: 2004	2 mg	0.008mg

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144	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:60 g, Readability : 0.01 mg) by Substitution/ ABBA cycle (5) method as per OIML R 111-1: 2004	20 mg	0.013mg
145	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:60 g, Readability : 0.01mg) by Substitution/ ABBA cycle (5) method as per OIML R 111-1: 2004	200 mg	0.013mg

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146	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class and Coarser)	Using F1 Accuracy Class Standard weight box and Digital Weighing Balance(Capacity:6.2 kg, Readability : 10 mg) Substitution/ABBA cycle (5) method as per OIML R111-1: 2004	5 kg	7.1mg
147	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:60 g, Readability : 0.01 mg) Substitution/ ABBA cycle (5) Method as per OIML R 111-1: 2004	5 mg	0.008mg

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148	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:60 g, Readability : 0.01mg) by Substitution/ABBA cycle (5) method as per OIML R 111-1: 2004	50 mg	0.013mg
149	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class and Coarser)	Using F1 Accuracy Class Standard weight box and Digital Weighing Balance(Capacity:1020g, Readability : 1 mg) by Substitution/ABBA cycle (5) Method as per OIML R111-1:2004	500 g	2.1mg

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150	MECHANICAL-WEIGHTS	Weight (F2 Accuracy Class and Coarser)	Using E2 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:60 g, Readability : 0.01mg) Substitution/ABBA cycle (5) method as per OIML R 111-1:2004	500 mg	0.013mg
151	MECHANICAL-WEIGHTS	Weight (M1 Accuracy Class and Coarser)	Using F1 Accuracy Class Standard weight box and Digital Weighing Balance(Capacity:20 kg, Readability : 100 mg) by Substitution/ABBA cycle (5) method as per OIML R 111-1: 2004	10 kg	112mg

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152	MECHANICAL-WEIGHTS	Weight (M1 Accuracy Class and Coarser)	Using F1 Accuracy Class Standard weight box and Digital Weighing Balance (Capacity:20 kg, Readability : 100 mg) by Substitution/ABBA cycle (5) Method as per OIML R 111-1:2004	20 kg	120mg
153	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity meter/ Transmitter with Sensor, Humidity Indicator/Controller with Sensor, Humidity Transmitter without indicator, Humidity Data logger, Thermohydrometer	Using Temperature and Humidity Indicator, Temperature Humidity Chamber, by comparison method	10 %rh to 95 %rh @ 25 °C	1.71% rh
154	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature and Humidity indicator of Climatic Chamber, Humidity Chamber, Environmental Chamber (Single Position)	Using Temperature and Humidity Indicator with sensor by comparison method	5 °C to 50 °C @ 50%rh	0.54°C

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155	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature and Humidity Indicator of Climatic Chamber, Humidity Chamber, Environmental Chamber (Single Position)	Using Temperature and Humidity Indicator with sensor by Comparison method	10 %rh to 95 %rh @ 25° C	1.71%rh
156	THERMAL-SPECIFIC HEAT & HUMIDITY	Transmitter with Indicator, Temperature Controller with Sensor, Temperature Transmitter without indicator, Temperature / Humidity Data logger, Thermohygrometer	Using Standard 4 Wire RTD Sensor With Indicator, DMM, Thermal Source, by Comparison Method	(-)25°C to 5°C	0.1°C
157	THERMAL-SPECIFIC HEAT & HUMIDITY	Transmitter with Sensor, Temperature Controller with Sensor, Temperature Transmitter without indicator Temperature/Humidity Data logger, Thermohygrometer	Using Temperature Indicator with Sensor, Temperature/Humidity Chamber, DMM by comparison method	5 °C to 50 °C @ 50%rh	0.54°C

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158	THERMAL-TEMPERATURE	Indicator/Controller with sensor of Temperature Bath / Oven/Furnace/Generator (Single Position)	Using 4 Wire RTD Sensor With Indicator by comparison method	(-) 30 °C to 250 °C	0.24°C
159	THERMAL-TEMPERATURE	Indicator/Controller with sensor of Temperature Bath / Oven/Furnace/Generator (Single Position)	Using R Type T/C with Indicator by Comparison method	250 °C to 1200 °C	1.31°C
160	THERMAL-TEMPERATURE	Liquid in glass thermometer	Using 4 Wire RTD Sensor With Indicator, Liquid Bath, by Comparison Method	(-) 40 °C to 250 °C	0.59°C
161	THERMAL-TEMPERATURE	RTD’s, Thermocouples,Thermostat (with & Without Indicators), Digital/ Analog Thermometers, Temperature Gauges	Using 4 Wire RTD Sensor With Indicator, Liquid Bath, Precision Thermometer, by comparison method	(-) 40 °C to 50 °C	0.14°C

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162	THERMAL-TEMPERATURE	RTD's, Thermocouples,Thermostat (with & Without Indicators), Digital/ Analog Thermometers, Temperature Gauges, & Temperature Sensing/ Indicating Devices	Using 4 Wire RTD Sensor With Indicator, Oil Bath,Precision Thermometer, by comparison method	50 °C to 250 °C	0.23°C
163	THERMAL-TEMPERATURE	Temperature Transmitters With Sensor, transmitters With / without Indicator	Using 4 Wire RTD Sensor With Indicator, DMM, Liquid Bath, by Comparison Method	(-) 40 °C to 250 °C	0.16°C
164	THERMAL-TEMPERATURE	Thermocouples (with & Without Indicators), Temperature Sensor/ Analog /digital Thermometer, Temperature Gauge	Using R Type Thermocouple with Indicator, Precision Thermometer, Dry Bath, by comparison method:	250 °C to 650 °C	0.32°C

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165	THERMAL-TEMPERATURE	Thermocouples (with & Without Indicators), Temperature Sensor/ Analog /digital Thermometer, Temperature Gauge	Using R Type thermocouple with Indicator, Precision Thermometer, Dry Bath, by comparison method:	650 °C to 1200 °C	1.23°C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ DMM, Multifunction calibrator by Direct /Comparison Method	0.1 A to 1 A	0.6 % to 0.2 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	1 A to 10 A	0.2 % to 0.3 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	1 mA to 100 mA	1.06 % to 0.6 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by direct method	1 kV to 28 kV	6.3%

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	0.1 V to 100 V	0.2%
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	1 mV to 100 mV	4.8 % to 0.2 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	100 V to 750 V	0.2%
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ MFC by Direct Method	0.2 mA to 2 mA	0.3 % to 0.2 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ MFC With Current Coil by Direct Method	10 A to 1000 A	0.98%

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ MFC by Direct Method	2 A to 10 A	0.2 % to 0.3 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ MFC by Direct Method	2 mA to 20 mA	0.2%
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ MFC by Direct Method	20 mA to 200 mA	0.2%
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using 5 ½ MFC by Direct Method	200 mA to 2000 mA	0.2%
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5 ½ MFC by Direct Method	0.2 V to 2 V	0.2%
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5 ½ MFC by Direct Method	2 V to 20 V	0.2%

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5 ½ MFC by Direct Method	20 V to 200 V	0.2%
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5 ½ MFC by Direct Method	200 V to 1000 V	0.2%
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using 5 ½ MFC by Direct Method	5 mV to 200 mV	1.2 % to 0.2 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy(1 phase /3 phase)@50 Hz,40 V to 300 V,& 0.5 A to 6 A,+/- 0.5 to 0.999 UPF	Using 3 Phase Power Energy Meter Calibrator by Direct Method	5 Wh to 5.4 kWh	0.3%
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Power(1 phase /3 phase)@50 Hz,40 V to 300 V,& 0.5 A to 6 A,+/- 0.5 PF to 0.999 UPF	Using 3 Phase Power Energy Meter Calibrator by Direct Method	10 W to 5.4 kW	0.98%
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor(Lead/Lag to Unity) @ 250 V & 5 A, 45Hz to 60 Hz	Using 3 Phase Power Energy Meter Calibrator by Direct Method	0.1 PF to 0.999 UPF	0.01PF

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22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Reactive Energy(1 phase /3 phase)@50 Hz,40 V to 300 V,& 0.5 A to 6 A,+/- 0.5 to 0.999 UPF	Using 3 Phase Power Energy Meter Calibrator by Direct Method	6 VArh to 5.4 kVArh	0.3%
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Reactive Power(1 phase /3 phase)@50 Hz,40 V to 300 V,& 0.5 A to 6 A,+/- 0.5 to 0.999 UPF	Using 3 Phase Power Energy Meter Calibrator by Direct Method	10 VAr to 5.4 kVAr	0.3%
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	0.1 A to 1 A	0.25%
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	1 A to 10 A	0.25 % to 0.15 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	1 mA to 100 mA	0.30 % to 0.25 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using DC Shunt With DMM by Direct Method	10 A to 1000 A	0.75 % to 1.4 %

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by comparison method	1 kV to 40 kV	3.2%
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6 ½ DMM By Direct Method	1 M ohm to 10 M ohm	0.02 % to 0.05 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6 ½ DMM by Direct Method	1 ohm to 100 ohm	0.5 % to 0.02 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6 ½ DMM By Direct Method	10 M ohm to 100 M ohm	0.05 % to 0.94 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6 ½ DMM By Direct Method	100 kohm to 1 Mohm	0.02%
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance	Using 6 ½ DMM By Direct Method	100 ohm to 100 k ohm	0.02%

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	0.1 V to 100 V	0.01%
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	1 mV to 100 mV	0.45 % to 0.01 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	100 V to 1000 V	0.01%
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ MFC by Direct Method	0.2 mA to 2 mA	0.2 % to 0.15 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ MFC With Current Coil by Direct Method	10 A to 1000 A	1%
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ MFC by Direct Method	2 A to 10 A	0.15 % to 0.2 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ MFC by Direct Method	2 mA to 20 mA	0.15%
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ MFC by Direct Method	20 mA to 200 mA	0.15%
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using 5 ½ MFC by Direct Method	200 mA to 2000 mA	0.15%
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box By Direct Method	1 kohm to 1000 kohm	0.2%
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box By Direct Method	1 Mohm to 10 Mohm	0.2%
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box By Direct Method	1 ohm to 10 ohm	0.3 % to 0.2 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box By Direct Method	10 Mohm to 100 Mohm	0.2%
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box By Direct Method	10 ohm to 1000 ohm	0.2%
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance	Using Decade Resistance Box By Direct Method	100 Mohm to 1000 Mohm	0.2 % to 0.6 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ MFC by Direct Method	0.2 V to 2 V	0.2%
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ MFC by Direct Method	1 mV to 200 mV	1.5 % to 0.2 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ MFC by Direct Method	2 V to 20 V	0.2%

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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ MFC by Direct Method	20 V to 200 V	0.2%
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using 5 ½ MFC by Direct Method	200 V to 1000 V	0.2%
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Precision Calibrator By Direct Method	(-) 200 °C to 800 °C	0.2 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B-TYPE	Using Precision Calibrator By Direct Method	600 °C to 1820 °C	1.42°C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E-Type	Using Precision Calibrator By Direct Method	(-)200 °C to 1000 °C	0.4°C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J-TYPE	Using Precision Calibrator By Direct Method	(-) 200 °C to 760 ° C	0.6°C

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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K-TYPE	Using Precision Calibrator By Direct Method	(-) 200 to 1370 ° C	1.22° C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N-TYPE	Using Precision Calibrator By Direct Method	(-) 200 °C to 1250 °C	0.7° C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R-TYPE	Using Precision Calibrator By Direct Method	5 °C to 1750 °C	1.4°C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S-TYPE	Using Precision Calibrator By Direct Method	5 ° C to 1750 ° C	1.4° C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T-TYPE	Using Precision Calibrator By Direct Method	(-) 100 °C to 350 °C	0.7 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Precision Calibrator By Direct Method	(-) 200 °C °C to 600 °C	0.63°C

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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B-TYPE	Using Precision Calibrator By Direct Method	600 °C to 1820 °C	2.14°C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E-TYPE	Using Precision Calibrator By Direct Method	(-) 200 °C to 1000 °C	0.5°C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J-TYPE	Using Precision Calibrator By Direct Method	(-) 200 °C to 760 °C	0.6° C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K-TYPE	Using Precision Calibrator By Direct Method	(-) 200 to 1370 °C	0.6° C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N-TYPE	Using Precision Calibrator By Direct Method	(-) 200 ° C to 1250 °C	0.9° C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R-TYPE	Using Precision Calibrator By Direct Method	50 °C to 1750 °C	1.0°C

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S-TYPE	Using Precision Calibrator By Direct Method	50 ° C to 1750 ° C	1.2° C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T-TYPE	Using Precision Calibrator By Direct Method	(-) 100 °C to 350 °C	0.5 °C
72	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ DMM, Multifunction calibrator, By Direct /Comparison Method	45 Hz to 1000 Hz	0.12%
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator By Comparison method	1 s to 60 s	0.02 s to 0.15 s
74	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator By Direct method	3600 s to 86400 s	1.1 s to 16.3 s
75	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Digital Time Calibrator By Comparison method	60 s to 3600 s	0.15 s to 1.1 s

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76	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using 5 ½ MFC by Direct Method	45 Hz to 1000 Hz	0.05 % to 0.06 %
77	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non Contact)	Using Digital Tachometer, RPM Generator by comparison method	1000 rpm to 10000 rpm	3.71rpm
78	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non Contact)	Using Digital Tachometer, RPM Generator by comparison method	10000 rpm to 90000 rpm	3.72rpm
79	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non Contact)	Using Digital Tachometer, RPM Generator by comparison method	10 rpm to 1000 rpm	1.70rpm
80	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Contact)	Using Digital Tachometer by comparison method	10 rpm to 8000 rpm	2.14rpm
81	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator of RPM Generator Centrifuge, Vertex Mixure, Stirrer (Non Contact)	Using Digital Tachometer by comparison method	10 rpm to 1000 rpm	1.70rpm
82	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator of RPM Generator Centrifuge, Vertex Mixure, Stirrer (Non Contact)	Using Digital Tachometer by comparison method	1000 rpm to 10000 rpm	3.71rpm

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83	MECHANICAL-ACCELERATION AND SPEED	RPM Indicator of RPM Generator Centrifuge, Vertex Mixure, Stirrer (Non Contact)	Using Digital Tachometer by comparison method	10000 rpm to 20000 rpm	3.75rpm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Precision Sprit Level by Comparison method	Up to 2500 X 2500 mm	2.41 sqrt(L+W)/125}µm, Where 'L' & 'W' in mm
85	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Indicating Instruments / Gauges, Magnehelic Gauge, Differential Pressure Transmitter, Differential Pressure Switch, Manometer	Using Digital Pressure Calibrator with Pneumatic Pump (Air), 6 ½ DMM by comparison method based on DKD-R 6-1	0 to 20 mbar	0.03mbar
86	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Indicating Instruments / Gauges/ Pressure Switch/ Pressure Transmitter With / Without Indicator	Using Digital Pressure Calibrator with Hydraulic Pump (Water/Oil), 6 ½ DMM by comparison method based on DKD-R 6-1	0 to 60 bar	0.041bar

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87	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Indicating Instruments / Gauges/Pressure Switch/ Differential Pressure Transmitter , Differential Pressure Switch, Pressure Transmitter With / Without Indicator	Using Digital Pressure Calibrator with Pneumatic Pump (Air), 6 ½ DMM by comparison method as per ISO 3567 & 27893	(-)20 mbar to 0	0.064mbar
88	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Indicating Instruments / Gauges/Pressure Switch/ Differential Pressure Transmitter, Differential Pressure Switch, Pressure Transmitter With /Without Indicator	Using Digital Pressure Calibrator with Pneumatic Pump (Air), 6 ½ DMM by comparison method based on DKD-R 6-1	0 to 5 bar	0.001bar
89	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Indicating Instruments / Gauges/Pressure Switch/ Pressure Transmitter With / Without Indicator	Using Digital Pressure Calibrator with Pneumatic Pump (Air) , 6 ½ DMM by comparison method based on DKD-R 6-1	0 to 20 bar	0.064bar

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90	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Pressure Indicating Instruments / Gauges/Pressure Transmitter With / Without Indicator	Using Digital Pressure Calibrator with Hydraulic Pump (Water/Oil), 6 ½ DMM by comparison method based on DKD-R 6-1	0 to 700 bar	0.15 bar
91	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Vacuum Indicating Instruments / Gauges/Vacuum Switch/ Vacuum Transmitter With / Without Indicator	Using Digital Pressure Calibrator with Pneumatic Pump (Air), 6 ½ DMM by comparison method based on ISO 3567 & 27893	(-)0.9 bar to 0	0.0009bar
92	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability:10 mg (Class II and coarser)	Using E2 Accuracy and F1 Accuracy Class Weight as per OIML-R-76-1	>200 g to 1000 g	20mg
93	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 0.5 g (Class III and coarser)	Using E2 Accuracy and F1 Accuracy Class Weights based on OIML-R-76-1	>6.2 kg to 20 kg	1000mg
94	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 1 g (Class III and coarser)	Using E2 Accuracy and F1 Accuracy Class Weights based on OIML-R-76-1	>20 kg to 100 kg	3g

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95	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability: 50 g (Class IIII)	Using F1 and M1 Accuracy Class Weights based on OIML-R-76-1	>200 kg to 300 kg	100g
96	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability:100 mg (Class II and coarser)	Using E2 Accuracy and F1 Accuracy Class Weights Based on OIML-R-76-1	0 to 6200 g	200mg
97	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance Readability:20 g (Class IIII and coarser)	Using F1 Accuracy Class and M1 Accuracy class Weights Based on OIML-R-76-1	>100 kg to 200 kg	40g
98	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Weighing Balance-Class II and coarser (readability:1 mg and coarser)	Using E2 Accuracy Class Weights Based on OIML R76-1:2006	0 to 200 g	2mg
99	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity meter/ Transmitter with Sensor, Humidity Indicator/Controller with Sensor, Humidity Transmitter without indicator, Humidity Data logger, Thermohydrometer	Using Temperature and Humidity Indicator, Temperature Humidity Chamber, by comparison method	10 %rh to 95 %rh @ 25 °C	1.71% rh

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100	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature and Humidity indicator of Climatic Chamber, Humidity Chamber, Environmental Chamber (Single Position)	Using Temperature and Humidity Indicator with sensor by comparison method	5 °C to 50 °C @ 50%rh	0.54°C
101	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature and Humidity Indicator of Climatic Chamber, Humidity Chamber, Environmental Chamber (Single Position)	Using Temperature and Humidity Indicator with sensor by Comparison method	10 %rh to 95 %rh @ 25° C	1.71%rh
102	THERMAL-SPECIFIC HEAT & HUMIDITY	Transmitter with Indicator, Temperature Controller with Sensor, Temperature Transmitter without indicator, Temperature / Humidity Data logger, Thermohygrometer	Using Standard 4 Wire RTD Sensor With Indicator, DMM, Thermal Source, by Comparison Method	(-)25°C to 5°C	0.1°C

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103	THERMAL-SPECIFIC HEAT & HUMIDITY	Transmitter with Sensor, Temperature Controller with Sensor, Temperature Transmitter without indicator Temperature/Humidity Data logger, Thermohygrometer	Using Temperature Indicator with Sensor, Temperature/Humidity Chamber, DMM by comparison method	5 °C to 50 °C @ 50%rh	0.54°C
104	THERMAL-TEMPERATURE	Oven, Thermal Chamber, Furnace, Muffle Furnace	Using Temperature Recorder with N Type Sensor (minimum 9 sensor) by Multi-position Method	250 °C to 1200 °C	3.06°C
105	THERMAL-TEMPERATURE	Indicator/Controller with sensor of Temperature Bath / Oven/Furnace/Generator (Single Position)	Using 4 Wire RTD Sensor With Indicator by comparison method	(-) 30 °C to 250 °C	0.24°C
106	THERMAL-TEMPERATURE	Indicator/Controller with sensor of Temperature Bath / Oven/Furnace/Generator (Single Position)	Using R Type T/C with Indicator by Comparison method	250 °C to 1200 °C	1.31°C

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107	THERMAL-TEMPERATURE	Liquid in glass thermometer	Using 4 Wire RTD Sensor With Indicator, Liquid Bath, by Comparison Method	(-) 40 °C to 250 °C	0.59°C
108	THERMAL-TEMPERATURE	Oven, Furnace, Cold/Hot Chamber, Chamber, Bath, Incubator (Industrial purpose only), Freezer, Refrigerator, Autoclave (Industrial purpose only), Cold Room	Using Temperature Recorder with RTD Sensor (minimum 9 sensor)by Multi-position Method	(-) 80 °C to 250 °C	2.30°C
109	THERMAL-TEMPERATURE	RTD’s, Thermocouples,Thermostat (with & Without Indicators), Digital/ Analog Thermometers, Temperature Gauges	Using 4 Wire RTD Sensor With Indicator, Liquid Bath, Precision Thermometer, by comparison method	(-) 40 °C to 50 °C	0.14°C

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110	THERMAL-TEMPERATURE	RTD's, Thermocouples,Thermostat (with & Without Indicators), Digital/ Analog Thermometers, Temperature Gauges, & Temperature Sensing/ Indicating Devices	Using 4 Wire RTD Sensor With Indicator, Oil Bath,Precision Thermometer, by comparison method	50 °C to 250 °C	0.23°C
111	THERMAL-TEMPERATURE	Temperature Transmitters With Sensor, transmitters With / without Indicator	Using 4 Wire RTD Sensor With Indicator, DMM, Liquid Bath, by Comparison Method	(-) 40 °C to 250 °C	0.16°C
112	THERMAL-TEMPERATURE	Thermocouples (with & Without Indicators), Temperature Sensor/ Analog /digital Thermometer, Temperature Gauge	Using R Type Thermocouple with Indicator, Precision Thermometer, Dry Bath, by comparison method:	250 °C to 650 °C	0.32°C

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113	THERMAL-TEMPERATURE	Thermocouples (with & Without Indicators), Temperature Sensor/ Analog /digital Thermometer, Temperature Gauge	Using R Type thermocouple with Indicator, Precision Thermometer, Dry Bath, by comparison method:	650 °C to 1200 °C	1.23°C

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