National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VENUS CALIBRATION AND INSTRUMENTS, NO 16, 6TH STREET, ANNAI SATHYA NAGAR, POOTHAPEDU, RAMAPURAM, CHENNAI, TAMIL NADU, 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 Active Energy @ 50 Hz Single & Three Phase, 63.5 V to 230 V, 0.1 A to 5A, 0.5 (Lead / Lag) to UPF	Using Energy Meter by direct method	3.175 Wh to 3.3 kWh	0.018 Wh to 0.0182 Wh
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	0.1 A to 1 A	0.0019 A to 0.0018 A
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	1 A to 3 A	0.0018 A to 0.0094 A
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	0.1 A to 1 A	0.0021 A to 0.0018 A
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	1 A to 3 A	0.0018 A to 0.0094 A
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	3 A to 10 A	0.016 A to 0.078 A

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Probe with Multimeter by Direct method	1 kV to 28 kV	0.082 kV to 1.619 kV
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (63.5 V to 230V, 0.1 A to 5 A)	Using Energy Meter by Comparison method	6.35 W to 1.15 kW	0.018 kW
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	0.1 V to 1 V	0.00042 V to 0.26 V
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	1 V to 10 V	0.26 V to 0.0079 V
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.054 mV to 0.42 mV
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	10 V to 100 V	0.0077 V to 0.074 V

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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	100 V to 750 V	0.074 V to 3.5 V
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	2 mV to 10 mV	0.13 mV to 0.054 mV
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	0.1 V to 1 V	0.00042 V to 0.0011 V
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	1 V to 10 V	0.0011 V to 0.0077 V
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.054 mV to 0.42 mV
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	10 V to 100 V	0.0077 V to 0.074 V

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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	100 V to 750 V	0.074 V to 3.5 V
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	2 mV to 10 mV	0.090 mV to 0.054 mV
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator and Current Coil by Direct Method	100 A to 500 A	1.73 A to 2.88 A
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	2 A to 10 A	10.66 mA to 0.023 A
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	2 mA to 20 mA	0.007 mA to 0.056 mA
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	20 mA to 200 mA	0.056 mA to 0.56 mA
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	200 mA to 2000 mA	0.56 mA to 10.66 mA

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26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator and Current Coil by Direct Method	50 A to 100 A	0.89 A to 1.73 A
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator and Current Coil by Direct Method	500 A to 1000 A	2.88 A to 6.11 A
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	0.2 V to 2 V	0.00078 V to 0.0048 V
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	2 V to 20 V	0.0048 V to 0.047 V
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	20 V to 200 V	0.047 V to 0.42 V
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	200 V to 500 V	0.42 V to 1.16 V
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	500 V to 1000 V	1.16 V to 2.23 V

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33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Capacitance Box by Direct Method	1 µF to 100 µF	1.22 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade Capacitance Box by Direct Method	1 nF to 1000 nF	1.20 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Inductance Box by Direct Method	1 H to 10 H	1.16 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Inductance Box by Direct Method	1 mH to 1000 mH	1.16 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Inductance Box by Direct Method	10 µH to 1000 µH	1.16 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	0.1 A to 1 A	0.00023 A to 0.0061 A
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	1 A to 3 A	0.0061 A to 0.0059 A

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	1 mA to 10 mA	0.0041 mA to 0.0096 mA
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	10 mA to 100 mA	0.0096 mA to 0.065 mA
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	3 A to 10 A	0.0082 A to 0.035 A
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with Multimeter by Direct Method	1 kV to 30 kV	0.92 kV
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	0.1 V to 1 V	0.000015 V to 0.00017 V
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	1 mV to 10 mV	0.021 mV to 0.0095 mV
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	1 V to 10 V	0.00017 V to 0.0005 V

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47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.0051 mV to 0.01 mV
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	10 V to 100 V	0.0005 V to 0.0063 V
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	100 V to 1000 V	0.0063 V to 0.200 V
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	0.1 kohm to 1 kohm	0.0016 kohm
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	0.1 Mohm to 1 Mohm	0.0001 Mohm to 0.0016 Mohm
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	1 kohm to 10 kohm	0.0016 kohm to 0.0016 kohm
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	1 Mohm to 10 Mohm	0.0016 Mohm to 0.005 Mohm

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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	1 ohm to 10 ohm	0.32 ohm to 0.013 ohm
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	10 kohm to 100 kohm	0.0016 kohm to 0.015 kohm
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	10 Mohm to 100 Mohm	0.005 Mohm to 2.354 Mohm
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	10 ohm to 100 ohm	0.013 ohm to 0.025 ohm
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	1 mA to 24 mA	0.024 mA to 0.012 mA
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator and Current Coil by Direct Method	100 A to 500 A	1.16 A to 2.89 A
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	2 A to 10 A	0.0039 A to 0.018 A

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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	2 mA to 20 mA	0.006 mA to 0.04 mA
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	20 mA to 200 mA	0.04 mA to 0.4 mA
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	200 mA to 2000 mA	0.4 mA to 3.85 mA
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator and Current Coil by Direct Method	50 A to 100 A	0.61 A to 1.16 A
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator and Current Coil by Direct Method	500 A to 1000 A	2.89 A to 6.02 A
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	0.2 V to 2 V	0.00067 V to 0.0026 V
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 mV to 80 mV	0.007 mV to 0.023 mV

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68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	2 V to 20 V	0.0026 V to 0.027 V
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	20 V to 200 V	0.027 V to 0.26 V
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	200 V to 500 V	0.26 V to 0.70 V
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	500 V to 1000 V	0.70 V to 2.05 V
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	80 mV to 250 mV	0.023 mV to 0.082 mV
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	1 Gohm	0.045 Gohm
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	1 kohm to 10 kohm	0.0012 kohm to 0.012 kohm

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75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Low Resistance Jig by Direct Method	1 mohm	0.003 mohm
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 10 Mohm	0.0012 Mohm to 0.012 Mohm
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Low Resistance Jig by Direct Method	1 ohm	0.021 ohm
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	1 ohm to 10 ohm	0.0024 ohm to 0.012 ohm
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Low Resistance Jig by Direct Method	10 µohm	0.6 µohm
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	10 Gohm	0.46 Gohm
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	10 kohm to 100 kohm	0.012 kohm to 0.12 kohm

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82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Low Resistance Jig by Direct Method	10 mohm	0.015 mohm
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	10 Mohm	0.44 Mohm
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	10 Mohm to 100 Mohm	0.012 Mohm to 0.12 Mohm
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	10 ohm to 100 ohm	0.012 ohm to 0.12 ohm
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Low Resistance Jig by Direct Method	100 µohm	0.65 µohm
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	100 Gohm	9.79 Gohm
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	100 kohm to 1000 kohm	0.12 kohm to 1.12 kohm

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89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Low Resistance Jig by Direct Method	100 mohm	0.15 mohm
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	100 Mohm	3.4 Mohm
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	0.12 Mohm to 6.02 Mohm
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	100 ohm to 1000 ohm	0.12 ohm to 1.33 ohm
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	1000 Gohm	89.9 Gohm
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	200 Mohm	9.06 Mohm
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	5 Mohm	0.23 Mohm

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96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Low Resistance Jig by Direct Method	50 µohm	0.6 µohm
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	500 Mohm	22.67 Mohm
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 00 Type)	Using Universal Calibrator by Direct Method	600 °C to 800 °C	0.35 °C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT100 Type)	Using Universal Calibrator by Direct Method	(-)200 °C to 200 °C	0.18 °C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT100 Type)	Using Universal Calibrator by Direct Method	200 °C to 600 °C	0.24 °C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R-Type	Using Universal Calibrator by Direct Method	10 °C to 1750 °C	1.01 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B-Type	Using Universal Calibrator by Direct Method	450 °C to 1800 °C	1.01 °C

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103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1000 °C	0.68 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1200 °C	0.68 °C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1372 °C	0.68 °C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1300 °C	0.68 °C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S-Type	Using Universal Calibrator by Direct Method	0 to 1750 °C	1.01 °C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 400 °C	0.68 °C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100 Type)	Using Universal Calibrator by Direct Method	200 °C to 600 °C	0.30 °C

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110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100 Type)	Using Universal Calibrator by Direct Method	600 °C to 800 °C	0.41 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT100 Type)	Using Universal Calibrator by Direct Method	(-)200 °C to 200 °C	0.61 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R-Type	Using Universal Calibrator by Direct Method	10 °C to 1750	1.01 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S-Type	Using Universal Calibrator by Direct Method	10 °C to 1750 °C	1.01 °C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B-Type	Using Universal Calibrator by Direct Method	600 °C to 1800 °C	1.01 °C
115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 990 °C	0.68 °C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1200 °C	0.68 °C

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117	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1370 °C	0.68 °C
118	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1290 °C	0.68 °C
119	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 400 °C	0.69 °C
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	0.3 kHz to 3 kHz	0.000024 kHz to 0.012 kHz
121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	3 Hz to 30 Hz	0.035 Hz
122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	3 kHz to 300 kHz	0.012 kHz
123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	30 Hz to 300 Hz	0.035 Hz to 0.023 Hz

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124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	1 s to 60 s	0.22 s to 0.231 s
125	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	3600 s to 43200 s	0.93 s to 5.13 s
126	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	43200 s to 86400 s	5.05 s to 10.57 s
127	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	60 s to 3600 s	0.231 s to 1.00 s
128	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	3 Hz to 50 Hz	0.02 Hz to 0.1 Hz
129	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	50 Hz to 500 Hz	0.1 Hz to 1 Hz
130	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	500 Hz to 5000 Hz	1 Hz to 1.6 Hz

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131	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	5000 Hz to 10000 Hz	1.6 Hz to 3.86 Hz
132	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer & RPM Source by Comparison Method	10 rpm to 100 rpm	1.53 rpm
133	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer & RPM Source by Comparison Method	100 to 1000 rpm	0.94 rpm
134	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer & RPM Source by Comparison Method	100 rpm to 1000 rpm	0.94 rpm
135	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer & RPM Source by Comparison Method	1000 rpm to 5000 rpm	2.54 rpm
136	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact)	Using Digital Tachometer & RPM Source by Comparison Method	5000 rpm to 8000 rpm	2.70 rpm
137	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact)	Using Digital Tachometer & RPM Source by Comparison Method	1 rpm to 2.5 rpm	0.82 rpm
138	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact)	Using Digital Tachometer & RPM Source by Comparison Method	10 rpm to 1000 rpm	1.14 rpm

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139	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact)	Using Digital Tachometer & RPM Source by Comparison Method	1000 rpm to 10000 rpm	3.09 rpm
140	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact)	Using Digital Tachometer & RPM Source by Comparison Method	10000 rpm to 50000 rpm	10.02 rpm
141	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact)	Using Digital Tachometer & RPM Source by Comparison Method	2.5 rpm to 10 rpm	6%
142	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact)	Using Digital Tachometer & RPM Source by Comparison Method	50000 rpm to 99900 rpm	20.64 rpm
143	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator	94 & 114 dB @ 1 kHz to	0.25 dB
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers Vernier/ Digital / Dial (L.C: 0.01 mm)	Using Slip Gauge Set & Long Gauge Block Set by Comparison Method	0 to 1000 mm	15 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers Vernier/ Digital / Dial (L.C: 0.01 mm)	Using Slip Gauge Set, Caliper Checker & by Comparison Method	Up to 600 mm	8.6 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers - Vernier/ Digital / Dial (L.C: 0.01 mm)	Using Slip Gauge Set & Caliper Checker by Comparison Method	Up to 300 mm	7.0 µm

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147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.:1µm)	Using Standard Foils by Comparison Method	10 to 931 µm	6.2 µm
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C:0.1µm)	Using Standard Foils by comparison method	10 to 3000 µm	3.3 µm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness)	Using Optical Flat by Comparison Method	up to 60 mm	0.7 µm
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauges Vernier / Digital (L.C: 0.01 mm)	Using Slip Gauge & Long Gauge Block by Comparison Method	Up to 300 mm	12.1 µm
151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge Analog / Digital L.C. : 0.001 / 0.002 mm	Using Slip Gauge Block Set by Comparison Method	Up to 50 mm	5.5 µm
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer Analog / Digital (L.C: 0.001 mm)	Using Slip Gauge Set, Long Gauge Block Set & Optical Flat by Comparison Method	Above 100 mm to 300 mm	3.4 µm

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153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer Analog / Digital (L.C: 0.001 mm)	Using Slip Gauge Set, Long Gauge Block Set & Optical Flat by Comparison Method	Above 300 mm to 1000 mm	10.2 µm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer Analog / Digital (L.C: 0.001 mm)	Using Slip Gauge Set, Long Gauge Block Set & Optical Flat by Comparison Method	Up to 100 mm	1.0 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge Set	Using Digital Plunger Dial Gauge, Comparator Stand & Slip Gauge Set by Comparison Method	0.01 mm to 2 mm	3.9 µm
156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Foil Thickness	Digital Plunger Dial Gauge with Comparator Stand & Gauge Block Set by comparison method	10 µm to 3000 µm	2.2 µm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block Accessories Set (Flatness)	Using Optical Flat by Comparison Method	up to 25 mm	0.7 µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge Vernier / Dial (L.C.: 0.02 mm)	Using Long Slip Gauge Set, Slip Gauge Set & Surface Plate by Comparison Method	Up to 1000 mm	20 µm

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159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauges Vernier / Digital / Dial (L.C.:0.01 mm)	Using Long Slip Gauge Set, Slip Gauge Set & Surface Plate by Comparison Method	Up to 600 mm	8.7 µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	LVDT / Electronic Probe with Indicator L.C.:0.001 mm	Using Slip Gauge Block Set & Comparator Stand by Comparison Method	0 to 30 mm	1.0 µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Digital Plunger Dial Gauge with Comparator Stand by comparison method	0.5 mm to 20 mm	2.5 µm
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Blade, Disc, Ball & Point Analog / Digital (L.C.:0.001mm)	Using Slip Gauge Set, Long Gauge Block Set & Optical Flat by Comparison Method	Up to 300 mm	4.9 µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Slip Gauge Set, Digital Plunger Dial & Comparator Stand	25 mm to 300 mm	2.5 µm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges	Using Digital Plunger Dial with Comparator Stand & Slip Gauge Block by Comparison Method	1 mm to 200 mm	2.5 µm

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165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge Digital/Dial (L.C.:0.001 mm)	Using Slip Gauge Set & Comparator Stand by Comparison Method	Up to 50 mm	1.5 µm
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge (Plain, Adjustable)	Using Slip Gauge Block Set by Comparison Method	3 mm to 200 mm	5.5 µm
167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.:0.1 mm)	Using Slip Gauge Block Set and Long Gauge Block Set by Comparison Method	0 to 225 mm	61.1 µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge	Digital Plunger Dial Gauge with Comparator Stand & Gauge Block Set by comparison method	0 to 100 mm	2.2 µm
169	MECHANICAL-PRESSURE INDICATING DEVICES	Barometer	Using Digital Barometer with vacuum/ pressure Desiccator Set up by comparison method	300 hPa (abs) to 1200 hPa (abs)	3.73 hPa
170	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Dial, Digital) Indicator, Pressure Transducer, Pressure Transmitter	Using Digital Pressure Gauge, Hydraulic Pump & Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.46 bar

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171	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauge (Dial, Digital), Indicator, Pressure Transducer, Pressure Transmitter, Differential Pressure Gauge	Using Digital Manometer, Pneumatic Pump & Digital Multimeter by Comparison Method as per DKD-R 6-1	(-)500 mbar to 0 mbar	1.1 mbar
172	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge, Digital Manometer, Manometer, Differential Pressure Gauge	Using Digital Manometer & Pneumatic Pump by Comparison Method as per DKD-R 6-1	(-)1950 Pa to 0	2.56 Pa
173	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge, Digital Manometer, Manometer, Differential Pressure Gauge	Using Digital Manometer & Pneumatic Pump by Comparison Method as per DKD-R 6-1	0 to 1950 Pa	2.59 Pa
174	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Dial, Digital) Indicator, Pressure Switch, Pressure Transmitter Differential Pressure Gauge	Using Digital Pressure Gauge, Pneumatic Pump & Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 35 bar	0.034 bar
175	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Dial, Digital), Indicator, Pressure Transducer and Pressure Transmitter Differential Pressure Gauge	Using Digital Manometer, Pneumatic Pump & Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 500 mbar	1.1 mbar

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176	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Dial, Digital), Indicator, Pressure Transducer and Pressure Transmitter Differential Pressure Gauge, Manometer	Using Digital Pressure Gauge, Pneumatic Pump & Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 1 bar	0.0013 bar
177	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Dial, Digital), Indicator, Pressure Switch Pressure Transmitter, Differential Pressure Gauge	Using Digital Pressure Gauge, Pneumatic Pump & Digital Multimeter by Comparison Method as per DKD-R 6-1	(-)0.95 bar to 0 bar	0.0014 bar
178	MECHANICAL-VOLUME	Measuring Cylinder / Beakers / Conical Flask/ Volumetric Flask	Using Precision Balance of 1000 g Capacity and Readability 1 mg and Distilled water by Gravimetric Method Based on IS 18235 : 2023	100 ml to 500 ml	0.66 ml
179	MECHANICAL-VOLUME	Measuring Cylinder / Beakers / Conical Flask/ Volumetric Flask	Using Precision Balance of 10000 g Capacity and Readability 10 mg and Distilled water by Gravimetric Method Based on IS 18235 : 2023	2000 ml to 5000 ml	5 ml
180	MECHANICAL-VOLUME	Measuring Cylinder / Beakers / Conical Flask/ Volumetric Flask	Using Weighing Balance Readability 1 mg/ 10 mg and Distilled water by Gravimetric Method Based on IS 18235 : 2023	500 ml to 2000 ml	2.2 ml

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181	MECHANICAL-VOLUME	Measuring Cylinder / Beakers / Conical Flask/ Volumetric Flask	Using Weighing Balance of 20000 g Readability 0.1 g and Distilled water by Gravimetric Method Based on IS 18235 : 2023	5000 ml to 10000 ml	13.5 ml
182	MECHANICAL-VOLUME	Micropipette	Using Semi Micro Balance of 80 g Capacity and Readability 0.01 mg and Distilled water by Gravimetric Method Based on ISO 8655 Part-6 2022	100 µl to 1000 µl	1.00 µl
183	MECHANICAL-VOLUME	Pipette / Burette / Measuring Cylinder / Beakers / Conical Flask/ Volumetric Flask	Using Precision Weighing Balances (Readability: 0.001mg / 0.01mg)as per ISO 8655 Part - 6 2022 Standard, ISO TR 20461Standard	1 ml to 5 ml	24 µl
184	MECHANICAL-VOLUME	Pipette / Burette / Measuring Cylinder / Beakers / Conical Flask/ Volumetric Flask	Using Precision Weighing Balances (Readability: 0.001mg / 0.01mg)as per ISO 8655 Part - 6 2022 Standard, ISO TR 20461Standard	10 ml to 100 ml	53 µl

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185	MECHANICAL-VOLUME	Pipette / Burette / Measuring Cylinder / Beakers / Conical Flask/ Volumetric Flask	Using Precision Weighing Balances (Readability: 0.001mg / 0.01mg)as per ISO 8655 Part - 6 2022 , Standard, ISO TR 20461Standard	5 ml to 10 ml	34 µl
186	MECHANICAL-VOLUME	Volume/ Piston Operated volumetric apparatus Micropipettes	Using Precision Weighing Balances (Readability: 0.001mg / 0.01mg)as per ISO 8655 Part - 6 2022, Standard, ISO TR 20461Standard and Distilled water by Gravimetric Method Based on ISO 8655 Part-6 2022	1 µl to 10 µl	0.1 µl
187	MECHANICAL-VOLUME	Volume/ Piston Operated volumetric apparatus Micropipettes	Using Precision Weighing Balances (Readability: 0.001mg / 0.01mg)as per ISO 8655 Part - 6 2022, Standard, ISO TR 20461Standard	10 µl to 100 µl	0.10 µl
188	MECHANICAL-VOLUME	Volume/ Piston Operated volumetric apparatus Micropipettes	Using Precision Weighing Balances (Readability: 0.001mg / 0.01mg)as per ISO 8655 Part - 6 2022, Standard, ISO TR 20461Standard	100 µl to 200 µl	0.15 µl

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189	MECHANICAL-VOLUME	Volume/ Piston Operated volumetric apparatus Micropipettes	Using Precision Weighing Balances (Readability: 0.001mg / 0.01mg)as per ISO 8655 Part - 6 2022,Standard, ISO TR 20461Standard	1000 µl to 3000 µl	0.49 µl
190	MECHANICAL-VOLUME	Volume/ Piston Operated volumetric apparatus Micropipettes	Using Precision Weighing Balances (Readability: 0.001mg / 0.01mg)as per ISO 8655 Part - 6 Standard, ISO TR 20461Standard	200 µl to 500 µl	0.15 µl
191	MECHANICAL-VOLUME	Volume/ Piston Operated volumetric apparatus Micropipettes	Using Precision Weighing Balances (Readability: 0.01mg)as per ISO 8655 Part - 6 2022, Standard, ISO TR 20461Standard	3000 µl to 5000 µl	0.57 µl
192	MECHANICAL-VOLUME	Volume/ Piston Operated volumetric apparatus Micropipettes	Using Precision Weighing Balances (Readability: 0.001mg / 0.01mg)as per ISO 8655 Part - 6 2022, Standard, ISO TR 20461Standard	500 µl to 1000 µl	0.18 µl
193	MECHANICAL-VOLUME	Volume/ Piston Operated volumetric apparatus Micropipettes	Using Precision Weighing Balances (Readability: 0.01mg)as per ISO 8655 Part - 6 2022, Standard, ISO TR 20461Standard	5000 µl to 10000 µl	0.94 µl

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194	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Standard Weights & Micro Balance (Readability:0.001mg,0.01 and 0.1mg) by ABBA Method as per OIML R-111	1 mg	0.002 mg
195	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Standard Weights & Micro Balance (Readability:0.001mg,0.01 and 0.1mg) by ABBA Method as per OIML R-111	10 mg	0.002 mg
196	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Standard Weights & Micro Balance (Readability:0.001mg,0.01 and 0.1mg) by ABBA Method as per OIML R-111	100 mg	0.003 mg
197	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Standard Weights & Micro Balance (Readability:0.001mg,0.01 and 0.1mg) by ABBA Method as per OIML R-111	2 mg	0.002 mg
198	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Standard Weights & Micro Balance (Readability:0.001mg,0.01 and 0.1mg) by ABBA Method as per OIML R-111	20 mg	0.002 mg

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199	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Standard Weights & Micro Balance (Readability:0.001mg,0.01 and 0.1mg) by ABBA Method as per OIML R-111	200 mg	0.003 mg
200	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Standard Weights & Micro Balance (Readability:0.001mg,0.01 and 0.1mg) by ABBA Method as per OIML R-111	5 mg	0.002 mg
201	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Standard Weights & Micro Balance (Readability:0.001mg,0.01 and 0.1mg) by ABBA Method as per OIML R-111	50 mg	0.003 mg
202	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 Standard Weights & Micro Balance (Readability:0.001mg,0.01 and 0.1mg) by ABBA Method as per OIML R-111	500 mg	0.003 mg
203	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Standard Weights & Micro Balance (Readability:0.001mg,0.01 and 0.1mg) by ABBA Method as per OIML R-111	1 g	0.02 mg

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204	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Standard Weights & Semi Micro Balance (Readability:0.01 and 0.1mg) by ABBA Method as per OIML R-111	10 g	0.03 mg
205	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Standard Weights & Balance (Readability: .0.01 mg/0.1 mg) by ABBA method as per OIML R-111	100 g	0.06 mg
206	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Standard Weights & Micro Balance (Readability:0.001mg,0.01 and 0.1mg) by ABBA Method as per OIML R-111	2 g	0.02 mg
207	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Standard Weights & Semi Micro Balance (Readability:0.01 and 0.1mg) by ABBA Method as per OIML R-111	20 g	0.03 mg
208	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Standard Weights & Semi Micro Balance (Readability:0.01 and 0.1mg) by ABBA Method as per OIML R-111	200 g	0.08 mg

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209	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Standard Weights & Micro Balance (Readability:0.001mg,0.01 and 0.1mg) by ABBA Method as per OIML R-111	5 g	0.01 mg
210	MECHANICAL-WEIGHTS	Accuracy class F1 & coarser	Using E1 Standard Weights & Semi Micro Balance (Readability:0.01 and 0.1mg) by ABBA Method as per OIML R-111	50 g	0.04 mg
211	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E1 Standard Weights, & Electronic Balance (Readability: 10 mg) by ABBA Method as per OIML R-111	2 kg	10 mg
212	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using E1 Standard Weights, & Electronic Balance (Readability: 1 mg) by ABBA Method as per OIML R-111	1 kg	10 mg
213	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1 Standard Weights, & Electronic Balance (Readability: 100 mg) by ABBA Method as per OIML R-111	20 kg	300 mg

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214	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1 Standard Weights & Electronic Balance (Readability: .1 g) by ABBA method as per OIML R-111	50 kg	821 mg
215	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using E1 Standard Weights & Semi Micro Balance (Readability:1 mg) by ABBA Method as per OIML R-111	500 g	4.6 mg
216	MECHANICAL-WEIGHTS	Accuracy class M2 & coarser	Using E2 Standard Weights, & Electronic Balance (Readability: 10 mg) by ABBA Method as per OIML R-111	10 kg	200 mg
217	MECHANICAL-WEIGHTS	Accuracy class M2& coarser	Using E1 Standard Weights, & Electronic Balance (Readability: 10 mg) by ABBA Method as per OIML R-111	5 kg	100 mg
218	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor/ Thermo Hygrometer, Temperature Humidity Indicator, Temperature Humidity Transmitter	Using Humidity Chamber & Using Digital Temperature/Humidity Indicator with sensor by comparison method	10 %rh to 95 %rh @25°C	1.67 %rh
219	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor/ Thermo Hygrometer, Temperature Humidity Indicator, Temperature Humidity Transmitter	Using Humidity Chamber & Using Digital Temperature/Humidity Indicator with sensor by comparison method	5 °C to 60 °C @50 %rh	0.27 °C

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220	THERMAL-TEMPERATURE	Black Body Furnace/Calibrator (Noncontact type)	Using Pyrometer with Indicator (Emissivity= 0.95) by Comparison Method	10 °C to 110 °C	2.12 °C
221	THERMAL-TEMPERATURE	Black Body Furnace/Calibrator (Noncontact type)	Using Pyrometer with Indicator (Emissivity 0.95) by Comparison Method	110 °C to 500 °C	4.29 °C
222	THERMAL-TEMPERATURE	Black Body Furnace/Calibrator (Noncontact type)	Using Pyrometer with Indicator (Emissivity= 0.98) by Comparison Method	500 °C to 1200 °C	4.0 °C
223	THERMAL-TEMPERATURE	Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using Thermocouple(S-Type) with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	600 °C to 1200 °C	2.24 °C
224	THERMAL-TEMPERATURE	IR Thermometer, Pyrometer (Noncontact type)	Using Pyrometer with Indicator & Black Body Source (Emissivity= 0.95) by Comparison Method	10 °C to 110 °C	2.12 °C
225	THERMAL-TEMPERATURE	IR Thermometer, Pyrometer (Noncontact type)	Using Pyrometer with Indicator & Black Body Source (Emissivity= 0.95) by Comparison Method	110 °C to 500 °C	4.29 °C

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226	THERMAL-TEMPERATURE	IR Thermometer, Pyrometer (Noncontact type)	Using Pyrometer with Indicator & Black Body Source (Emissivity= 0.98) by Comparison Method	500 °C to 1200 °C	3.93 °C
227	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD Sensor with Indicator & Low Temperature Bath by Comparison Method	(-)80 °C to 50 °C	0.32 °C
228	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD Sensor with Indicator & Oil Bath by Comparison Method	50 °C to 250 °C	0.37 °C
229	THERMAL-TEMPERATURE	RTD, Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using RTD Sensor with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	(-)30 °C to 250 °C	0.20 °C
230	THERMAL-TEMPERATURE	RTD, Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using RTD Sensor with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	(-)80 °C to (-)30 °C	0.34 °C

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231	THERMAL-TEMPERATURE	RTD, Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using RTD Sensor with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	250 °C to 600 °C	0.21 °C
232	THERMAL-TEMPERATURE	Temperature Indicator with sensor Temperature Baths, Dry Bath Calibrators	Using RTD Sensor with Indicator Liquid Bath by Comparison Method	(-)80 °C to 50 °C	0.19 °C
233	THERMAL-TEMPERATURE	Temperature Indicator with sensor Temperature Baths, Dry Bath Calibrators	Using RTD Sensor with Indicator & Dry Bath by Comparison Method:	250 °C to 600 °C	0.24 °C
234	THERMAL-TEMPERATURE	Temperature Indicator with sensor Temperature Baths, Dry Bath Calibrators	Using RTD Sensor with Indicator & Liquid Bath by Comparison Method:	50 °C to 250 °C	0.18 °C
235	THERMAL-TEMPERATURE	Temperature Indicator with sensor Temperature Baths, Dry Bath Calibrators	UsingThermo couple(SType) with Indicator& High temperature dry bath by Comparison Method:	600 °C to 1200 °C	2.31 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy @ 50 Hz Single & Three Phase, 63.5 V to 230 V, 0.1 A to 5A, 0.5 (Lead / Lag) to UPF	Using Energy Meter by direct method	3.175 Wh to 3.3 kWh	0.018 Wh to 0.0182 Wh
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	0.1 A to 1 A	0.0019 A to 0.0018 A
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	1 A to 3 A	0.0018 A to 0.0094 A
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	0.1 A to 1 A	0.0021 A to 0.0018 A
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	1 A to 3 A	0.0018 A to 0.0094 A
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	3 A to 10 A	0.016 A to 0.078 A

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High Voltage Probe with Multimeter by Direct method	1 kV to 28 kV	0.082 kV to 1.619 kV
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (63.5 V to 230V, 0.1 A to 5 A)	Using Energy Meter by Comparison method	6.35 W to 1.15 kW	0.018 kW
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	0.1 V to 1 V	0.00042 V to 0.26 V
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	1 V to 10 V	0.26 V to 0.0079 V
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.054 mV to 0.42 mV
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	10 V to 100 V	0.0077 V to 0.074 V

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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	100 V to 750 V	0.074 V to 3.5 V
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz	Using 6 ½ Digital Multimeter by Direct Method	2 mV to 10 mV	0.13 mV to 0.054 mV
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	0.1 V to 1 V	0.00042 V to 0.0011 V
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	1 V to 10 V	0.0011 V to 0.0077 V
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.054 mV to 0.42 mV
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	10 V to 100 V	0.0077 V to 0.074 V

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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	100 V to 750 V	0.074 V to 3.5 V
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6 ½ Digital Multimeter by Direct Method	2 mV to 10 mV	0.090 mV to 0.054 mV
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator and Current Coil by Direct Method	100 A to 500 A	1.73 A to 2.88 A
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	2 A to 10 A	10.66 mA to 0.023 A
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	2 mA to 20 mA	0.007 mA to 0.056 mA
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	20 mA to 200 mA	0.056 mA to 0.56 mA
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator by Direct Method	200 mA to 2000 mA	0.56 mA to 10.66 mA

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26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator and Current Coil by Direct Method	50 A to 100 A	0.89 A to 1.73 A
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator and Current Coil by Direct Method	500 A to 1000 A	2.88 A to 6.11 A
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	0.2 V to 2 V	0.00078 V to 0.0048 V
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	2 V to 20 V	0.0048 V to 0.047 V
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	20 V to 200 V	0.047 V to 0.42 V
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	200 V to 500 V	0.42 V to 1.16 V
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multiproduct Calibrator by Direct Method	500 V to 1000 V	1.16 V to 2.23 V

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33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	0.1 A to 1 A	0.00023 A to 0.0061 A
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	1 A to 3 A	0.0061 A to 0.0059 A
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	1 mA to 10 mA	0.0041 mA to 0.0096 mA
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	10 mA to 100 mA	0.0096 mA to 0.065 mA
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6 ½ Digital Multimeter by Direct Method	3 A to 10 A	0.0082 A to 0.035 A
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using High Voltage Probe with Multimeter by Direct Method	1 kV to 30 kV	0.92 kV
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	0.1 V to 1 V	0.000015 V to 0.00017 V

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	1 mV to 10 mV	0.021 mV to 0.0095 mV
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	1 V to 10 V	0.00017 V to 0.0005 V
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	10 mV to 100 mV	0.0051 mV to 0.01 mV
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	10 V to 100 V	0.0005 V to 0.0063 V
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6 ½ Digital Multimeter by Direct Method	100 V to 1000 V	0.0063 V to 0.200 V
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	0.1 kohm to 1 kohm	0.0016 kohm
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	0.1 Mohm to 1 Mohm	0.0001 Mohm to 0.0016 Mohm

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47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	1 kohm to 10 kohm	0.0016 kohm to 0.0016 kohm
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	1 Mohm to 10 Mohm	0.0016 Mohm to 0.005 Mohm
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	1 ohm to 10 ohm	0.32 ohm to 0.013 ohm
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	10 kohm to 100 kohm	0.0016 kohm to 0.015 kohm
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	10 Mohm to 100 Mohm	0.005 Mohm to 2.354 Mohm
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6 ½ Digital Multimeter by Direct Method	10 ohm to 100 ohm	0.013 ohm to 0.025 ohm
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Universal Calibrator by Direct Method	1 mA to 24 mA	0.024 mA to 0.012 mA

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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator and Current Coil by Direct Method	100 A to 500 A	1.16 A to 2.89 A
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	2 A to 10 A	0.0039 A to 0.018 A
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	2 mA to 20 mA	0.006 mA to 0.04 mA
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	20 mA to 200 mA	0.04 mA to 0.4 mA
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct Method	200 mA to 2000 mA	0.4 mA to 3.85 mA
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator and Current Coil by Direct Method	50 A to 100 A	0.61 A to 1.16 A
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator and Current Coil by Direct Method	500 A to 1000 A	2.89 A to 6.02 A

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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	0.2 V to 2 V	0.00067 V to 0.0026 V
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	1 mV to 80 mV	0.007 mV to 0.023 mV
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	2 V to 20 V	0.0026 V to 0.027 V
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	20 V to 200 V	0.027 V to 0.26 V
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	200 V to 500 V	0.26 V to 0.70 V
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct Method	500 V to 1000 V	0.70 V to 2.05 V
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Universal Calibrator by Direct Method	80 mV to 250 mV	0.023 mV to 0.082 mV

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68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	1 Gohm	0.045 Gohm
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	1 kohm to 10 kohm	0.0012 kohm to 0.012 kohm
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Low Resistance Jig by Direct Method	1 mohm	0.003 mohm
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 10 Mohm	0.0012 Mohm to 0.012 Mohm
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Low Resistance Jig by Direct Method	1 ohm	0.021 ohm
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	1 ohm to 10 ohm	0.0024 ohm to 0.012 ohm
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Low Resistance Jig by Direct Method	10 µohm	0.6 µohm

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75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	10 Gohm	0.46 Gohm
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	10 kohm to 100 kohm	0.012 kohm to 0.12 kohm
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Low Resistance Jig by Direct Method	10 mohm	0.015 mohm
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	10 Mohm	0.44 Mohm
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	10 Mohm to 100 Mohm	0.012 Mohm to 0.12 Mohm
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	10 ohm to 100 ohm	0.012 ohm to 0.12 ohm
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Low Resistance Jig by Direct Method	100 µohm	0.65 µohm

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82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	100 Gohm	9.79 Gohm
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	100 kohm to 1000 kohm	0.12 kohm to 1.12 kohm
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Low Resistance Jig by Direct Method	100 mohm	0.15 mohm
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	100 Mohm	3.4 Mohm
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	0.12 Mohm to 6.02 Mohm
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance Box by Direct Method	100 ohm to 1000 ohm	0.12 ohm to 1.33 ohm
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	1000 Gohm	89.9 Gohm

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89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	200 Mohm	9.06 Mohm
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	5 Mohm	0.23 Mohm
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Low Resistance Jig by Direct Method	50 µohm	0.6 µohm
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using High Resistance Jig by Direct Method	500 Mohm	22.67 Mohm
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 00 Type)	Using Universal Calibrator by Direct Method	600 °C to 800 °C	0.35 °C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT100 Type)	Using Universal Calibrator by Direct Method	(-)200 °C to 200 °C	0.18 °C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT100 Type)	Using Universal Calibrator by Direct Method	200 °C to 600 °C	0.24 °C

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96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple R-Type	Using Universal Calibrator by Direct Method	10 °C to 1750 °C	1.01 °C
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple B-Type	Using Universal Calibrator by Direct Method	450 °C to 1800 °C	1.01 °C
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple E-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1000 °C	0.68 °C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple J-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1200 °C	0.68 °C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple K-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1372 °C	0.68 °C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple N-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1300 °C	0.68 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple S-Type	Using Universal Calibrator by Direct Method	0 to 1750 °C	1.01 °C

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103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple T-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 400 °C	0.68 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100 Type)	Using Universal Calibrator by Direct Method	200 °C to 600 °C	0.30 °C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100 Type)	Using Universal Calibrator by Direct Method	600 °C to 800 °C	0.41 °C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT100 Type)	Using Universal Calibrator by Direct Method	(-)200 °C to 200 °C	0.61 °C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple R-Type	Using Universal Calibrator by Direct Method	10 °C to 1750	1.01 °C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple S-Type	Using Universal Calibrator by Direct Method	10 °C to 1750 °C	1.01 °C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple B-Type	Using Universal Calibrator by Direct Method	600 °C to 1800 °C	1.01 °C

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110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple E-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 990 °C	0.68 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple J-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1200 °C	0.68 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple K-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1370 °C	0.68 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple N-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 1290 °C	0.68 °C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple T-Type	Using Universal Calibrator by Direct Method	(-)200 °C to 400 °C	0.69 °C
115	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	0.3 kHz to 3 kHz	0.000024 kHz to 0.012 kHz
116	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	3 Hz to 30 Hz	0.035 Hz

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117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	3 kHz to 300 kHz	0.012 kHz
118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6 ½ Digital Multimeter by Direct Method	30 Hz to 300 Hz	0.035 Hz to 0.023 Hz
119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	1 s to 60 s	0.22 s to 0.231 s
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	3600 s to 43200 s	0.93 s to 5.13 s
121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	43200 s to 86400 s	5.05 s to 10.57 s
122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Timer Calibrator by Comparison Method	60 s to 3600 s	0.231 s to 1.00 s
123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	3 Hz to 50 Hz	0.02 Hz to 0.1 Hz

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124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	50 Hz to 500 Hz	0.1 Hz to 1 Hz
125	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	500 Hz to 5000 Hz	1 Hz to 1.6 Hz
126	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Universal Calibrator by Direct Method	5000 Hz to 10000 Hz	1.6 Hz to 3.86 Hz
127	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow rate/ Liquid Water Flow Meter	Using Ultrasonic Clamp on Liquid Flow Meter by Comparison method	1 m^3/h to 710 m^3/h	2.7 %
128	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	5.99 rpm
129	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge	Using Digital Tachometer by Comparison Method	1000 rpm to 25000 rpm	58.15 rpm
130	MECHANICAL-ACCELERATION AND SPEED	RPM Source / Centrifuge	Using Digital Tachometer by Comparison Method	2.5 rpm to 100 rpm	6%
131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers Vernier/ Dial (L.C: 0.02 mm)	Using Slip Gauge Set & Long Gauge Block Set by Comparison Method	0 to 2000 mm	21 µm

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132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge Vernier / Dial (L.C.: 0.02 mm)	Using Long Slip Gauge Set, Slip Gauge Set & Surface Plate by Comparison Method	Up to 1000 mm	20 µm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauges Vernier / Digital / Dial (L.C.:0.01 mm)	Using Long Slip Gauge Set, Slip Gauge Set & Surface Plate by Comparison Method	Up to 600 mm	8.7 µm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Sprit Level (Sensitivity : 0.01 mm/m) & Granite L Square by Comparison Method	2000 mm x 1000 mm to	(1.31*sqrt(L+W/100) µm (Where L & W are in mm)
135	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (Linear) L.C:0.0001mm	Using Long Gauge Block Set , Slip Gauge Block Set, Caliper Checker by Comparison Method	0 to 600 mm	10.1 µm
136	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (Squareness) L.C:0.0001 mm	Using Long Gauge Block Set , Slip Gauge Block Set, & Granite L Square by Comparison Method	0 to 600 mm	11 µm
137	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge (Dial, Digital) Indicator, Pressure Transducer, Pressure Transmitter	Using Digital Pressure Gauge, Hydraulic Pump & Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.46 bar

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138	MECHANICAL-PRESSURE INDICATING DEVICES	Low Pressure Gauge (Dial, Digital), Indicator, Pressure Transducer, Pressure Transmitter, Differential Pressure Gauge	Using Digital Manometer, Pneumatic Pump & Digital Multimeter by Comparison Method as per DKD-R 6-1	(-)500 mbar to 0 mbar	1.1 mbar
139	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge, Digital Manometer, Manometer, Differential Pressure Gauge	Using Digital Manometer & Pneumatic Pump by Comparison Method as per DKD-R 6-1	(-)1950 Pa to 0	2.56 Pa
140	MECHANICAL-PRESSURE INDICATING DEVICES	Magnehelic Gauge, Digital Manometer, Manometer, Differential Pressure Gauge	Using Digital Manometer & Pneumatic Pump by Comparison Method as per DKD-R 6-1	0 to 1950 Pa	2.59 Pa
141	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Dial, Digital) Indicator, Pressure Switch, Pressure Transmitter Differential Pressure Gauge	Using Digital Pressure Gauge, Pneumatic Pump & Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 35 bar	0.034 bar
142	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Dial, Digital), Indicator, Pressure Transducer and Pressure Transmitter Differential Pressure Gauge	Using Digital Manometer, Pneumatic Pump & Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 500 mbar	1.1 mbar

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143	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Dial, Digital), Indicator, Pressure Transducer and Pressure Transmitter Differential Pressure Gauge, Manometer	Using Digital Pressure Gauge, Pneumatic Pump & Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 1 bar	0.0013 bar
144	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge (Dial, Digital), Indicator, Pressure Switch Pressure Transmitter, Differential Pressure Gauge	Using Digital Pressure Gauge, Pneumatic Pump & Digital Multimeter by Comparison Method as per DKD-R 6-1	(-)0.95 bar to 0 bar	0.0014 bar
145	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 2 and Coarser d >=200 g	Using F1 & M1 Standard Weights by Comparison Method :as per OIML R 76	0 to 2000 kg	396 g
146	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance Class 4 and Coarser d >=500 g	Using F1 & M1 Standard Weights by Comparison Method as per OIML R 76	0 to 3000 kg	1276 g
147	MECHANICAL-WEIGHING SCALE AND BALANCE	Micro Balance, Class I and coarser Readability: 0.001 mg	Using E1 Class Standard Weights by Comparison Method as per OIML R-76	0 to 6 g	0.04 mg
148	MECHANICAL-WEIGHING SCALE AND BALANCE	Micro Balance,Class Iand coarser Readability: 0.001 mg	Using E1 Class Standard Weights by Comparison Method as per OIMLR76	0 g to 21 g	0.03 mg
149	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class I and coarser Readability: 0.01 mg	Using E1 Class Standard Weights by Comparison Method as per OIML R-76	0 to 101 g	0.06 mg

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150	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class I and coarser Readability: 0.01 mg	Using E1 Class Standard Weights by Comparison Method as per OIML R-76	0 to 220 g	0.11 mg
151	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class I and coarser Readability: 0.01 mg	Using E1 Class Standard Weights by Comparison Method as per OIML R-76	0 to 80 g	0.06 mg
152	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class I and coarser Readability: 1 mg	Using E1 & E2 Class Standard Weights by Comparison Method as per OIML R-76	0 to 1000 g	11 mg
153	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class II and coarser Readability: 10 mg	Using E1, E2 & F1 Class Standard Weights by Comparison Method as per OIML R-76	0 to 10 kg	0.047 g
154	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class III and coarser Readability: 1 g	Using E1, E2& F1 Class Standard Weights by Comparison Method as per OIML R-76	0 to 50 kg	1 g
155	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class III and coarser Readability: 100 mg	Using E1, E2& F1 Class Standard Weights by Comparison Method as per OIML R-76	0 to 20 kg	0.25 g
156	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class IV and coarser Readability: 10 g	Using F1 & M1Class Standard Weights by Comparison Method as per OIML R 76	0 to 150 kg	12 g
157	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class IV and coarser Readability: 100 g	Using F1 & M1 Standard Weights by Comparison Method as per OIML R 76	0 to 1000 kg	0.170 kg

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158	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class IV and coarser Readability: 20 g	Using F1 & M1 Class Standard Weights by Comparison Method as per OIML R 76	0 to 300 kg	20 g
159	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Balance, Class IV and coarser Readability: 50 g	Using F1 & M1 Class Standard Weights by Comparison Method as per OIML R 76	0 to 650 kg	0.050 kg
160	THERMAL-SPECIFIC HEAT & HUMIDITY	.Humidity Sensor/ Thermo Hygrometer, Temperature Humidity Indicator, Temperature Humidity Transmitter	Using Humidity Chamber & Using Digital Temperature/Humidity Indicator with sensor by comparison method	5 °C to 60 °C @50 % rh	0.37 °C
161	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental & Humidity Chambers, Stability Chambers	Using Digital Temperature/Humidity Indicator with sensor (Single Position Calibration) by comparison method	10 %rh to 95 %rh @ 25°C	1.22 %rh
162	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental & Humidity Chambers, Stability Chambers	Using Temperature/ Humidity Data logger(minimum 9 sensor) by Multiposition Calibration	15 %rh to 95 %rh @ 25°C	3.19 %rh
163	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental & Humidity Chambers, Stability Chambers	Using Temperature/ Humidity Data logger (minimum 9 sensor) by Multiposition Calibration	5 °C to 50 °C @ 50%rh	1.56 °C

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164	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental & Humidity Chambers, Stability Chambers	Using Digital Temperature/Humidity Indicator with sensor (Single Position Calibration) by comparison method	5 °C to 60 °C @ 50%rh	0.27 °C
165	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor/ Thermo Hygrometer, Temperature Humidity Indicator, Temperature Humidity Transmitter	Using Humidity Chamber & Using Digital Temperature/Humidity Indicator with sensor by comparison method	10 %rh to 95 %rh @25°C	1.67 %rh
166	THERMAL-TEMPERATURE	Baths, Deep Freezer, Freezer, Refrigerator, Thermal Chamber, Water bath, Hot air Oven, Furnaces	Using Data logger with RTD, (minimum 9 sensor)Multiposition Calibration	(-)80 °C to 250 °C	2.36 °C
167	THERMAL-TEMPERATURE	Baths, Thermal Chamber, Furnaces	Using Data logger with RTD, (minimum 9 sensor)Multiposition Calibration	250 °C to 1200 °C	3.92 °C
168	THERMAL-TEMPERATURE	Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using Thermocouple(S-Type) with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	600 °C to 1200 °C	2.24 °C

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169	THERMAL-TEMPERATURE	RTD, Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using RTD Sensor with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	(-)30 °C to 250 °C	0.20 °C
170	THERMAL-TEMPERATURE	RTD, Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using RTD Sensor with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	(-)80 °C to (-)30 °C	0.34 °C
171	THERMAL-TEMPERATURE	RTD, Dig. Thermometer, Temperature Gauge, Thermocouple, Temperature Indicator / Controller with sensor, Transmitter, Thermocouple with & without Indicator	Using RTD Sensor with Indicator, Multifunction Calibrator & Temperature Bath by Comparison Method	250 °C to 600 °C	0.21 °C

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172	THERMAL-TEMPERATURE	Temperature Indicator / Controller with sensor of Bath, Deep Freezer, Freezer, Refrigerator, Incubator, Autoclave(Non Medical purpose), Water bath, Hot Air oven, Furnace	Using RTD Sensor with Indicator(Single Position Calibration) by Comparison Method	(-)30 °C to 250 °C	0.2 °C
173	THERMAL-TEMPERATURE	Temperature Indicator / Controller with sensor of Bath, Furnace	Using Thermocouple (Type S) With Indicator (Single Position Calibration) by Comparison Method	600 °C to 1200 °C	1.94 °C
174	THERMAL-TEMPERATURE	Temperature Indicator / Controller with sensor of Bath, Hot Air oven, Furnace	Using RTD Sensor with Indicator by Comparison Method (Single Position Calibration) by comparison method	250 °C to 600 °C	0.21 °C
175	THERMAL-TEMPERATURE	Temperature Indicator /Controller with sensor of Bath, Deep Freezer, Freezer, Refrigerator	Using RTD Sensor with Indicator (Single Position Calibration) by Comparison Method	(-)80 °C to (-)30 °C	0.35 °C

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