



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

NIIRT CALIBRATION AND TESTING PRIVATE LIMITED, 214, KUNDI, SECTOR-20,  
PANCHKULA, HARYANA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-4574

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**Validity**

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**Last Amended on**

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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)	1 Phase AC Active Energy @ 50 Hz (50 V to 300 V, 20 mA to 1000 A, 0.5 PF (Lead/Lag) to UPF)	Using Energy Meter by Direct Method	10 Wh to 220 kWh	0.4 % to 0.94 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Active Power @ 50 Hz (50 V to 300 V, 20 mA to 1000 A, 0.5 PF (Lead/Lag) to UPF)	Using Power Meter by Direct Method	10 W to 220 kW	0.4 % to 0.94 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	1 mA to 10 mA	0.18 % to 0.25 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Current transformer and 6½ Digit DMM by Direct Method	10 A to 1000 A	0.26 % to 0.48 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Current Transformer with 5½ Digit DMM by Direct Method	10 A to 1000 A	0.73 % to 1.2 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	10 mA to 100 mA	0.25 % to 0.19 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	100 mA to 10 A	0.19 % to 0.26 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 5½ Digit DMM by Direct Method	200 mA to 10 A	0.43 % to 0.7 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	30 µA to 1 mA	0.88 % to 0.18 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1 kHz	Using LCR meter by Direct Method	1 ohm to 10 kohm	0.43 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 100 kHz	Using 6½ Digit DMM by Direct Method	100 mV to 100 V	0.79 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	0.5 kV to 28 kV	2.7 % to 3.2 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 5½ Digit DMM by Direct Method	200 mV to 750 V	0.5 % to 0.3 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit DMM by Direct Method	1 mV to 100 V	4.7 % to 0.1 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit DMM by Direct Method	100 V to 1000 V	0.1 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Meter by Direct Method	100 pF to 1 µF	0.7 % to 0.45 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 100 Hz	Using LCR Meter by Direct Method	10 µF to 100 µF	0.5 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using LCR Meter by Direct Method	100 µH to 10 H	0.76 % to 0.5 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz (50 V to 1000 V, 0.1 A to 1000 A)	Using Power / Energy Meter by Direct Method	0.3 (Lead/Lag) PF to UPF	1.3 % to 0.6 %



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20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	1 Phase AC Active Power @ 50 Hz (10 V to 1000 V, 20 A to 1000 A, 0.5 PF (Lead/Lag) to UPF)	Using MFC with 50 Turns Current Coil by Direct Method	20 kW to 1 MW	0.2 % to 0.66 %
21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	1 Phase AC Active Energy @ 50 Hz (10 V to 1000 V, 0.1 A to 20 A, 0.5 PF (Lead/Lag) to UPF)	Using MFC by Direct Method	1 Wh to 20 kWh	0.54 % to 0.2 %
22	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	1 Phase AC Active Energy @ 50 Hz (10 V to 1000 V, 20 A to 1000 A, 0.5 PF (Lead/Lag) to UPF)	Using MFC and Current Coil by Direct Method	20 kWh to 250 kWh	0.2 % to 0.66 %
23	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	1 Phase AC Active Power @ 50 Hz (10 V to 1000 V, 0.1 A to 20 A, 0.5 PF (Lead/Lag) to UPF)	Using MFC by Direct Method	1 W to 20 kW	0.54 % to 0.2 %
24	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using MFC by Direct Method	3 A to 20 A	0.08 % to 0.18 %
25	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using MFC by Direct Method:	30 µA to 330 mA	0.6 % to 0.06 %



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26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using MFC by Direct Method	330 mA to 3 A	0.06 % to 0.08 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using MFC with 50 Turns Current Coil by Direct Method	20 A to 1000 A	0.18 % to 0.4 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 100 kHz	Using MFC by Direct Method	10 mV to 200 V	0.8 % to 0.33 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using MFC by Direct Method	1 mV to 330 mV	2.5 % to 0.06 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using MFC by Direct Method	330 mV to 1000 V	0.06 % to 0.07 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using MFC by Direct Method	0.5 nF to 1 µF	2.9 % to 0.42 %



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32	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using MFC by Direct Method	1 $\mu$ F to 100 $\mu$ F	0.42 % to 0.66 %
33	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (50 V to 1000 V, 0.1 A to 1000 A)	Using MFC by Direct Method	0.2 (Lead/Lag) PF to UPF	1.5 % to 0.1 %
34	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Capacitance	Using 6½ Digit DMM by Direct Method	1 nF to 100 $\mu$ F	5 % to 1.78 %
35	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Capacitance	Using 6½ Digit DMM by Direct Method	100 $\mu$ F to 10 mF	1.76 % to 2 %
36	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 5½ Digit DMM by Direct Method	1 $\mu$ A to 2 mA	2.63 % to 0.045 %
37	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	1 $\mu$ A to 400 mA	3.03 % to 0.07 %



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38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt and 5½ Digit DMM by Direct Method	10 A to 100 A	0.3 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5½ Digit DMM by Direct Method	2 mA to 10 A	0.045 % to 0.26 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	400 mA to 10 A	0.06 % to 0.19 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	0.5 kV to 40 kV	2.3 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 6½ Digit DMM by Direct Method	10 kohm to 1000 Mohm	0.03 % to 2.94 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 5½ Digit DMM by Direct Method	2 kohm to 100 Mohm	0.1 % to 2.1 %



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44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using Current Source and 6½ Digit by V/I Method	1 mohm to 10 ohm	1.63 % to 0.06 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 5½ Digit DMM by Direct Method	1 ohm to 2 kohm	1.5 % to 0.1 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 6½ Digit DMM by Direct Method	10 ohm to 10 kohm	0.06 % to 0.03 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	0.1 mV to 10 V	4.1 % to 0.004 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 5½ Digit DMM by Direct Method	1 mV to 220 mV	1.22 % to 0.06 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	10 V to 1000 V	0.004 % to 0.007 %



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50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 5½ Digit DMM by Direct Method	220 mV to 1000 V	0.01 % to 0.02 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	High Resistance (2 wire) @ 500 V to 5 kV	Using IR Tester by Comparison Method	10 Mohm to 1000 Gohm	1.4 % to 2.4 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	High Resistance (2 wire) @ Less than or equal to 5 kV	Using Voltage Source and 5½ Digit DMM by V/I Method	0.2 Mohm to 100 Mohm	0.12 % to 0.59 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	1 µA to 330 mA	2.34 % to 0.013 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC with 50 Turn Current Coil by Direct Method	20 A to 1000 A	0.12 % to 0.65 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	330 mA to 20 A	0.013 % to 0.12 %



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56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 1000 V, 20 A to 1000 A)	Using MFC with Current Coil by Direct Method	20 kW to 1 MW	0.13 % to 0.66 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 1000 V, 0.1 A to 20 A)	Using MFC by Direct Method	1 W to 20 kW	0.06 % to 0.13 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Resistance Box by Direct Method	100 kohm to 100 Mohm	0.065 % to 3.4 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using MFC by Direct Method	100 kohm to 33 Mohm	0.013 % to 0.13 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using MFC by Direct Method	33 Mohm to 1000 Mohm	0.13 % to 1.76 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Resistance Box by Direct Method	1 mohm to 100 kohm	6 % to 0.065 %



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62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using MFC by Direct Method	1 Ohm to 100 kOhm	0.022 % to 0.015 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	0.1 mV to 330 mV	3.6 % to 0.008 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	330 mV to 1000 V	0.008 % to 0.007 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ Less than or equal to 5 kV	Using High Resistance Box by Direct method	10 Mohm to 1000 Gohm	0.6 % to 5.1 %
66	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Turn Ratio	Using DMM's by V/V Method	1 to 300	0.15 % to 0.42 %
67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth	Using MFC by Direct Method	50 kHz to 350 MHz	4.04 % to 6.2 %



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68	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time Base	Using MFC by Direct Method	5 ns to 1 s	0.012 % to 0.12 %
69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Vertical Deflection (DC)	Using MFC by Direct Method	2 mV to 30 V	4.1 % to 0.34 %
70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Vertical Deflection (Sine Wave @ 1 kHz)	Using MFC by Direct Method	2 mV <sub>p-p</sub> to 50 V <sub>p-p</sub>	4.1 % to 3.5 %
71	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Vertical Deflection (Square Wave @ 1 kHz)	Using MFC by Direct Method	2 mV <sub>p-p</sub> to 50 V <sub>p-p</sub>	4.2 % to 3.5 %
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using 6½ Digit DMM by Direct Method	600 °C to 1800 °C	0.5 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using 6½ Digit DMM by Direct Method	(-) 200 °C to 1000 °C	0.2 °C



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74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using 6½ Digit DMM by Direct Method	(-) 200 °C to 1200 °C	0.2 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using 6½ Digit DMM by Direct Method	(-) 200 °C to 1370 °C	0.2 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using 6½ Digit DMM by Direct Method	(-) 200 °C to 1300 °C	0.3 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using 6½ Digit DMM by Direct Method	0 °C to 1700 °C	0.5 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100)	Using 6½ Digit DMM by Direct Method	(-) 200 °C to 800 °C	0.2 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using 6½ Digit DMM by Direct Method	0 °C to 1700 °C	0.5 °C



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80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using 6½ Digit DMM by Direct Method	(-) 200 °C to 400 °C	0.2 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using MFC by Direct Method	600 °C to 1800 °C	0.59 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 1000 °C	0.6 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 1200 °C	0.32 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 1200 °C	1.9 °C
85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 1350 °C	0.5 °C



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86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 1370 °C	2 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 1300 °C	0.5 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 1300 °C	2 °C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using MFC by Direct Method	0 °C to 1700 °C	0.66 °C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Temperature Calibrator by Direct Method	0 °C to 1700 °C	3.4 °C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using MFC by Direct Method	(-) 200 °C to 800 °C	0.3 °C



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92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using Temperature Calibrator by Direct Method	(-) 200 °C to 800 °C	1.2 °C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using MFC by Direct Method	0 °C to 1700 °C	0.53 °C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Temperature Calibrator by Direct Method	0 °C to 1700 °C	3.4 °C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 400 °C	0.7 °C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 400 °C	1.4 °C
97	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter by Direct Method	1 MHz to 350 MHz	0.012 % to 0.0031 %



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98	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit DMM by Direct Method	10 Hz to 1 MHz	0.04 % to 0.012 %
99	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 5½ Digit DMM by Direct Method	20 Hz to 1 MHz	0.4 % to 0.04 %
100	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Frequency Source with Counter by Comparison Method	10 ms to 10 hr	0.58 ms to 0.9 s
101	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Time Interval Meter by Comparison Method	100 ms to 10 hr	6 ms to 20.7 s
102	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Digital Storage Oscilloscope (DSO) by Comparison Method	5 ms to 1 s	0.05 ms to 2 ms
103	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MFC by Direct Method	10 Hz to 1 MHz	0.013 % to 0.002 %



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104	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency (50 Ohm coaxial)	Using MFC by Direct Method	1 MHz to 350 MHz	0.002 %
105	FLUID FLOW-FLOW MEASURING DEVICES	Turbine Flow Meter, Ultrasonic Flow Meter - Flow Rate (Medium: Liquid, Water)	Using Ultrasonic Flow Meter by Comparison Method	35 m <sup>3</sup> /h to 98 m <sup>3</sup> /h	1.5 %
106	FLUID FLOW-FLOW MEASURING DEVICES	Turbine Flow Meter, Ultrasonic Flow Meter - Flow Rate (Medium: Liquid, Water)	Using Ultrasonic Flow Meter by Comparison Method	0.7 m <sup>3</sup> /hr to 27 m <sup>3</sup> /h	1.5 %
107	FLUID FLOW-FLOW MEASURING DEVICES	Turbine Flow Meter, Ultrasonic Flow Meter - Flow Rate (Medium: Liquid, Water)	Using Ultrasonic Flow Meter by Comparison Method	132 m <sup>3</sup> /h to 199.89 m <sup>3</sup> /h	1.5 %
108	FLUID FLOW-FLOW MEASURING DEVICES	Turbine Flow Meter, Ultrasonic Flow Meter - Totalizer (Medium: Liquid, Water)	Using Ultrasonic Flow Meter by Comparison Method	1.2 m <sup>3</sup> to 25 m <sup>3</sup>	1.5 %
109	MECHANICAL-ACCELERATION AND SPEED	Accelerometer Sensitivity @ 10000 Hz to 15000 Hz	Using Reference Accelerometer and Shaker by Comparison Method	1 g @ 10000 Hz to 1 g @ 15000 Hz	1.85 %



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110	MECHANICAL-ACCELERATION AND SPEED	Accelerometer Sensitivity @ 5 Hz to 10000 Hz	Using Reference Accelerometer and Shaker by Comparison Method	1 g @ 5 Hz to 1 g @ 10000 Hz	4.4 %
111	MECHANICAL-ACCELERATION AND SPEED	RPM indicator of Centrifuge, RPM indicator of Motors	Using Non-contact Tachometer by Comparison Method	200 rpm to 16500 rpm	0.53 %
112	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact type	Using Non-contact Tachometer and RPM Source by Comparison Method	100 rpm to 500 rpm	1.68 %
113	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact type	Using Non-contact Tachometer and RPM Source by Comparison Method	10000 rpm to 15000 rpm	0.12 %
114	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact type	Using Non-Contact Tachometer and RPM Source by Comparison Method	12 rpm to 100 rpm	1.68 %
115	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact type	Using Non-contact Tachometer and RPM Source by Comparison Method	500 rpm to 10000 rpm	0.32 %
116	MECHANICAL-ACCELERATION AND SPEED	Tachometer- Non-Contact type, Stroboscope	Using Non-contact Tachometer and RPM Source by Comparison Method	100 rpm to 500 rpm	1.62 %



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117	MECHANICAL-ACCELERATION AND SPEED	Tachometer- Non-Contact type, Stroboscope	Using Non-contact Tachometer and RPM Source by Comparison Method	10000 rpm to 90000 rpm	1.62 %
118	MECHANICAL-ACCELERATION AND SPEED	Tachometer- Non-Contact type, Stroboscope	Using Non-contact Tachometer and RPM Source by Comparison Method	12 rpm to 100 rpm	1.62 %
119	MECHANICAL-ACCELERATION AND SPEED	Tachometer- Non-Contact type, Stroboscope	Using Non-contact Tachometer and RPM Source by Comparison Method	500 rpm to 10000 rpm	0.32 %
120	MECHANICAL-ACCELERATION AND SPEED	Vibration Machine - Acceleration @ 10 Hz to 1000 Hz	Using Vibration meter by Comparison Method	3.93 m/s <sup>2</sup> to 300 m/s <sup>2</sup>	3.43 %
121	MECHANICAL-ACCELERATION AND SPEED	Vibration Machine - Displacement @ 10 Hz to 500 Hz	Using Vibration meter by Comparison Method	0.024 mm to 2.172 mm	4.67 %
122	MECHANICAL-ACCELERATION AND SPEED	Vibration Machine - Velocity @ 10 Hz to 1000 Hz	Using Vibration meter by Comparison Method	1.06 mm/s to 198.4 mm/s	3.67 %
123	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter - Acceleration @ 10 Hz to 1000 Hz	Using Vibration meter with shaker by comparison method	3.93 m/s <sup>2</sup> to 304 m/s <sup>2</sup>	3.45 %
124	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter - Displacement @ 10 Hz to 500 Hz	Using Vibration meter with shaker by Comparison Method	0.024 mm to 2.172 mm	4.49 %



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125	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter - Velocity @ 10 Hz to 1000 Hz	Using Vibration meter with shaker by Comparison Method	1 mm/s to 200 mm/s	3.94 %
126	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	114 dB	0.37 dB
127	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Comparison Method	94 dB	0.37 dB
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Angle Protractor / Combination Set (L.C.: 5')	Using Angle Gauge by Direct Method	0 to 180 °	3 '
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.001 mm)	Using Standard Thickness Foils By Direct Method	0.01 to 0.687 mm	0.0032 mm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper, Depth Gauge (L.C.: 0.01 mm)	Using Slip Gauge by Direct Method	0 to 200 mm	0.009 mm



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131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.01 mm)	Using Slip Gauge by Direct Method	0 to 200 mm	0.0083 mm
132	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge, Dial Indicator - Lever type (L.C.: 0.001 mm)	Using Slip Gauge with Comparator by Direct Method	0 to 1 mm	0.001 mm
133	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge, Dial Indicator - Plunger type (L.C.: 0.001 mm)	Using Slip Gauge with Comparator by Direct Method	0 to 20 mm	0.001 mm
134	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge by Direct Method	> 100 to 200 mm	0.013 mm
135	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge by Direct Method	> 25 to 100 mm	0.003 mm



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136	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Slip Gauge by Direct Method	0 to 25 mm	0.0011 mm
137	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Filler Gauge	Using Dial Indicator (L.C.: 0.0001 mm) by Comparison Method	0.01 to 1 mm	0.001 mm
138	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.01 mm)	Using Slip Gauge & Caliper Checker by Direct Method	> 300 to 600 mm	0.013 mm
139	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (L.C.: 0.01 mm)	Using Slip Gauge & Caliper Checker by Direct Method	0 to 300 mm	0.0095 mm
140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C.: 0.001 mm)	Using Slip Gauge & Accessories by Direct Method	> 100 to 150 mm	0.004 mm



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141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C.: 0.001 mm)	Using Slip Gauge & Accessories by Direct Method	> 63 to 100 mm	0.003 mm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C.: 0.001 mm)	Using Slip Gauge & Accessories by Direct Method	50 to 63 mm	0.001 mm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin Gauge Set	Using Slip Gauge with Dial Indicator & Comparator stand by Comparison Method	0.1 to 20 mm	0.0015 mm
144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 0.5 mm)	Using Scale and Tape Calibrator by Direct Method	0 to 1000 mm	0.066 mm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape (L.C.: 1 mm)	Using Scale and Tape Calibrator by Direct Method	0 to 30 m	75 sqrt (L) μm (L in m)



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146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope (Linear movement) (L.C.: 0.01 mm)	Using Slip Gauge & Glass Scale by Direct Method	0 to 25 mm	0.007 mm
147	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope (Magnification)	Using Slip Gauge & Glass scale by Comparison Method	Upto 100X	0.5 %
148	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using Slip Gauge with Dial Indicator & Comparator stand by Comparison Method	1 to 100 mm	0.0035 mm
149	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector (Angle measurement) (L.C.: 2')	Using Angle Gauge Set by Direct Method	0 to 180 °	1 '
150	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector (Linear Scale) (L.C. 0.001 mm)	Using Slip Gauge by Direct method	0 to 300 mm	0.0035 mm



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151	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector (Magnification)	Using Slip Gauge & Vernier Caliper by Comparison Method	Upto 100X	0.8 %
152	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Profile Projector by Comparison Method	0.5 to 35 mm	0.102 mm
153	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Slip Gauge by Direct Method	1 to 150 mm	0.004 mm
154	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foil Set	Using Plunger type Digital Indicator with Comparator Stand by Comparison Method	0.01 to 1 mm	1.6 µm
155	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level by Direct Method	Upto 6000 x 4000 mm	1.7 sqrt (L+ W /150) µm (where L & W in mm)



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156	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Vernier Caliper by direct method	> 4 to 50 mm	0.016 mm
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Digital Vernier Caliper by Direct Method	> 50 to 100 mm	102 µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using Profile Projector by Direct Method	0.03 to 4 mm	0.008 mm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge	Using Profile Projector by Direct Method	0.1 to 25 mm	0.0083 mm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Angle)	Using Profile Projector by Direct Method	60°	2.3 min



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161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge	Using Slip Gauge by Direct Method	1 mm to 100 mm	79.6 $\mu$ m
162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper, Dial Vernier Caliper, Digital Vernier Caliper (L.C.: 0.01 mm)	Using Slip Gauge & Caliper Checker by Direct Method	> 300 to 600 mm	0.0095 mm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper, Dial Vernier Caliper, Digital Vernier Caliper (L.C.: 0.01 mm)	Using Slip Gauge & Caliper Checker by Direct Method	0 to 300 mm	0.009 mm
164	MECHANICAL-MOBILE FORCE MEASURING SYSTEM	Push Pull Gauge, Force Gauge	Using Alloy steel weights as per VDI/VDE 2624 Part 2.1	0 to 500 N	2.43 %
165	MECHANICAL-PRESSURE INDICATING DEVICES	Differential Pressure Gauge, Magnehelic Gauge, Differential Pressure Sensor, Differential Pressure Transmitter	Using Differential Pressure Gauge with Comparator pump, DMM as per DKD R-6-1	0 to 100 mbar	1.57 %



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166	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge, Hydraulic Pressure Sensor, Hydraulic Pressure Transmitter, Hydraulic Pressure Switch	Using Digital Pressure Gauge with Comparator pump, DMM as per DKD R-6-1	0 to 700 bar	0.5 %
167	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge, Pneumatic Pressure Sensor, Pneumatic Pressure Transmitter, Pneumatic Pressure Switch	Using Digital Pressure Gauge with Comparator pump, DMM as per DKD R-6-1	>7 to 30 bar	0.53 %
168	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge, Pneumatic Pressure Sensor, Pneumatic Pressure Transmitter, Pneumatic Pressure Switch	Using Digital Pressure Gauge with Comparator pump, DMM as per DKD R-6-1	0 to 7 bar	0.6 %
169	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge, Vacuum Sensor, Vacuum Transmitter, Vacuum Switch	Using Digital Vacuum Gauge with Comparator pump, DMM as per DKD R-6-1	0 to -0.9 bar	0.7 %
170	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Torque Screw Driver (Type I / Class B, C, D, E)	Using Digital Torque Meter as per ISO-6789:2017	2 Nm to 30 Nm	3.84 % rdg



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171	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Torque Screw Driver (Type II / Class A, B, D, E)	Using Digital Torque Meter as per ISO-6789:2017	2 Nm to 50 Nm	3.93 % rdg
172	MECHANICAL-VOLUME	Micro-Pipette	Using Weighing Balance (Readability : 0.001 mg) by Gravimetric method as per ISO 8655 part 6: 2022	> 10 µl to 100 µl	0.27 µl
173	MECHANICAL-VOLUME	Micro-Pipette	Using Weighing Balance (Readability : 0.001 mg) by Gravimetric method as per ISO 8655 part 6: 2022	> 100 µl to 1000 µl	2.5 µl
174	MECHANICAL-VOLUME	Micro-Pipette	Using Weighing Balance (Readability : 0.01 mg) by Gravimetric method as per ISO 8655 part 6: 2022	> 1000 µl to 5000 µl	2.5 µl
175	MECHANICAL-VOLUME	Micro-Pipette	Using Weighing Balance (Readability : 0.01 mg) by Gravimetric method as per ISO 8655 part 6 : 2022	> 5000 µl to 10000 µl	12.8 µl



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176	MECHANICAL-VOLUME	Micro-Pipette	Using Weighing Balance (Readability : 0.001 mg) by Gravimetric method as per ISO 8655 part 6 : 2022	1 µl to 10 µl	0.06 µl
177	MECHANICAL-VOLUME	Pipette, Burette, Flask, Beaker, Pycnometer, Measuring Cylinder	Using Weighing Balance (Readability : 0.01 mg) by Gravimetric method as per ISO 4787: 2021	> 1 ml to 50 ml	0.002 ml
178	MECHANICAL-VOLUME	Pipette, Burette, Flask, Beaker, Pycnometer, Measuring Cylinder	Using Weighing Balance (Readability : 0.01 g) by Gravimetric method as per ISO 4787: 2021	> 2 l to 5 l	0.55 ml
179	MECHANICAL-VOLUME	Pipette, Burette, Flask, Beaker, Pycnometer, Measuring Cylinder	Using Weighing Balance (Readability : 0.001 g) by Gravimetric method as per ISO 4787: 2021	> 250 ml to 2 l	100.3 µl
180	MECHANICAL-VOLUME	Pipette, Burette, Flask, Beaker, Pycnometer, Measuring Cylinder	Using Weighing Balance (Readability : 0.1 g) by Gravimetric method as per ISO 4787: 2021	> 5 l to 10 l	1.2 ml



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181	MECHANICAL-VOLUME	Pipette, Burette, Flask, Beaker, Pycnometer, Measuring Cylinder	Using Weighing Balance (Readability : 0.001 g) by Gravimetric method as per ISO 4787: 2021	> 50 ml to 250 ml	25 µl
182	MECHANICAL-VOLUME	Pipette, Burette, Flask, Beaker, Pycnometer, Measuring Cylinder	Using Weighing Balance (Readability : 0.001 mg) by Gravimetric method as per ISO 4787: 2021	0.1 ml to 1 ml	0.0003 ml
183	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (L.C.: 10 g)	Using Secondary Iron hook weights by Comparison Method as Per IS 16514 (Part 2) : 2019	> 1 kg to 10 kg	7 g
184	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (L.C.: 100 g)	Using Secondary Iron hook weights by Comparison Method as Per IS 16514 (Part 2) : 2019	> 50 kg to 100 kg	60 g
185	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (L.C.: 5 g)	Using Secondary Iron hook weights by Comparison Method as Per IS 16514 (Part 2) : 2019	0 to 1 kg	3 g



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186	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (L.C.: 50 g)	Using Secondary Iron hook weights by Comparison Method as Per IS 16514 (Part 2) : 2019	> 10 kg to 50 kg	30 g
187	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class I and coarser (Readability : 0.001 mg)	Using Standard E1 weight as per OIML R 76-1	0 to 11 g	0.006 mg
188	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class I and coarser (Readability : 0.01 mg)	Using Standard E1 weight as per OIML R 76-1	0 to 120 g	0.021 mg
189	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class I and coarser (Readability : 0.1 mg)	Using Standard E1 weight as per OIML R 76-1	0 to 220 g	0.072 mg
190	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class II and coarser (Readability : 0.001 g)	Using Standard E1 weight as per OIML R 76-1	0 to 3 kg	2.61 mg
191	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class II and coarser (Readability : 0.01 g)	Using Standard E1 weight as per OIML R 76-1	0 to 10 kg	8.85 mg
192	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class III and coarser (Readability : 0.1 g)	Using Standard E2 weight as per OIML R 76-1	0 to 30 kg	0.082 g



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193	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class IV and coarser (Readability : 20 g)	Using Standard F2 & M1 weights as per OIML R 76-1	0 to 200 kg	19 g
194	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class IV and coarser (Readability : 5 g)	Using Standard E2 & F2 weights as per OIML R 76-1	0 to 100 kg	4.1 g
195	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class IV and coarser (Readability : 50 g)	Using Standard E2, F2 & M1 weights as per OIML R 76-1	0 to 300 kg	47.4 g
196	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 mg) as per OIML R 111-1	1 g	0.0044 mg
197	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 mg) as per OIML R 111-1	1 mg	0.0014 mg
198	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 mg) as per OIML R 111-1	10 g	0.0075 mg



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199	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 mg) as per OIML R 111-1	10 mg	0.0017 mg
200	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.01 mg) as per OIML R 111-1	100 g	0.029 mg
201	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 mg) as per OIML R 111-1	100 mg	0.0023 mg
202	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 mg) as per OIML R 111-1	2 g	0.0045 mg
203	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 mg) as per OIML R 111-1	2 mg	0.0017 mg



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204	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.01 mg) as per OIML R 111-1	20 g	0.015 mg
205	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 mg) as per OIML R 111-1	20 mg	0.0015 mg
206	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of class E1 and Weighing Balance (L.C.: 0.1 mg) as per OIML R 111-1	200 g	0.093 mg
207	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 mg) as per OIML R 111-1	200 mg	0.0025 mg
208	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 mg) as per OIML R 111-1	5 g	0.006 mg



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209	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 mg) as per OIML R 111-1	5 mg	0.0019 mg
210	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.01 mg) as per OIML R 111-1	50 g	0.017 mg
211	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 mg) as per OIML R 111-1	50 mg	0.0017 mg
212	MECHANICAL-WEIGHTS	Weight - E2 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 mg) as per OIML R 111-1	500 mg	0.003 mg
213	MECHANICAL-WEIGHTS	Weight - F1 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 g) as per OIML R 111-1	1 kg	1.2 mg



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214	MECHANICAL-WEIGHTS	Weight - F1 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 g) as per OIML R 111-1	2 kg	1.6 mg
215	MECHANICAL-WEIGHTS	Weight - F1 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.01 g) as per OIML R 111-1	5 kg	8 mg
216	MECHANICAL-WEIGHTS	Weight - F1 Class and Coarser	Using Standard Weight of Class E1 and Weighing Balance (L.C.: 0.001 g) as per OIML R 111-1	500 g	0.8 mg
217	MECHANICAL-WEIGHTS	Weight - F2 Class and Coarser	Using Standard Weight of class E2 and Weighing Balance of (L.C.: 0.1 g) as per OIML R 111-1	20 kg	95 mg
218	MECHANICAL-WEIGHTS	Weight - M1 Class and Coarser	Using Standard Weight of Class E2 and Weighing Balance (L.C.: 0.1 g) as per OIML R 111-1	10 kg	89 mg



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219	MECHANICAL-WEIGHTS	Weight - M1 Class and Coarser	Using Standard Weight of Class E2 & F2 and Weighing Balance of (L.C.: 1 g) as per OIML R 111-1	50 kg	0.8 g
220	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental Chamber, Stability Chamber, Humidity Chamber	Using RH Data logger (minimum 9 sensors) by Comparison Method	20 to 95 %rh @ 25°C	2.6 %rh
221	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator of Environmental Chamber, Humidity Chamber (Single position calibration)	Using Digital RH and Temperature Indicator with sensor by Comparison Method	20 %rh to 95 %rh @ 25°C	1.6 %rh
222	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-Hygrometer, Hygrometer, RH Indicator with sensor, RH Controller with sensor, RH Recorder, RH Logger	Using Thermo-Hygrometer with Portable RH Generator by Comparison Method	20 %rh to 95 %rh @ 25°C	1.5 %rh
223	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-Hygrometer, Hygrometer, RH Indicator with sensor, RH Controller with sensor, RH Recorder, RH Logger	Using Thermohygrometer and Fixed Point Salt solutions by Comparison Method	22 %rh @ 25°C	1.1 %rh



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224	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-Hygrometer, Hygrometer, RH Indicator with sensor, RH Controller with sensor, RH Recorder, RH Logger	Using Thermohygrometer and Fixed Point Salt solutions by Comparison Method	43 %rh @ 25°C	0.9 %rh
225	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-Hygrometer, Hygrometer, RH Indicator with sensor, RH Controller with sensor, RH Recorder, RH Logger	Using Thermohygrometer and Fixed Point Salt solutions by Comparison Method	54 %rh @ 25°C	0.9 %rh
226	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-Hygrometer, Hygrometer, RH Indicator with sensor, RH Controller with sensor, RH Recorder, RH Logger	Using Thermohygrometer and Fixed Point Salt solutions by Comparison Method	92 %rh @ 25°C	0.9 %rh
227	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-Hygrometer, Hygrometer, RH Indicator with sensor, RH Controller with sensor, RH Recorder, RH Logger	Using Thermohygrometer and Fixed Point Salt solutions by Comparison Method	75 %rh @ 25°C	0.9 %rh



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228	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-Hygrometer, Temperature Indicator with sensor, Temperature controller with sensor, Temperature Recorder, Temperature Logger	Using RTD with Indicator and Temperature & RH Chamber by Comparison Method	0 to 60 °C @ 50 %rh	0.5 °C
229	THERMAL-TEMPERATURE	Black Body Source @ Emissivity : 0.95	Using Infrared Thermometer by Comparison Method	25 to 300 °C	2.8 °C
230	THERMAL-TEMPERATURE	Black Body Source @ Emissivity : 0.95	Using Infrared Thermometer by Comparison Method	300 to 1050 °C	4.2 °C
231	THERMAL-TEMPERATURE	Chamber, Liquid Bath, Freezer, Refrigerator, Incubator	Using RTD with Data logger (minimum 9 sensors) by Comparison Method	(-) 80 to 25 °C	1.8 °C
232	THERMAL-TEMPERATURE	Chamber, Liquid Bath, Oven, Furnace	Using RTD with Data logger (minimum 9 sensors) by Comparison Method	250 to 1100 °C	3.5 °C
233	THERMAL-TEMPERATURE	Chamber, Liquid Bath, Oven, Furnace, Incubator, Autoclave, Sterilizer	Using RTD with Data logger (minimum 9 sensors) by Comparison Method	25 to 250 °C	1.4 °C



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234	THERMAL-TEMPERATURE	Infrared radiation thermometer / Pyrometer @ Emissivity : 0.95	Using Infrared thermometer and black body source by Comparison Method	300 to 1050 °C	4.2 °C
235	THERMAL-TEMPERATURE	Infrared radiation thermometer/ Pyrometer @ Emissivity : 0.95	Using Infrared thermometer and black body source by Comparison Method	45 °C to 300 °C	2.8 °C
236	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using RTD with Indicator and liquid bath by Comparison Method	(-) 80 to 25 °C	0.2 °C
237	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Indicator and oil bath by Comparison Method	25 to 250 °C	0.2 °C
238	THERMAL-TEMPERATURE	Temperature Gauge, Digital Thermometer, RTD, Thermocouple, Temperature Sensor with or without Indicator/ Controller/ Logger/ Recorder, Temperature Transmitter	Using RTD with Indicator and liquid bath by Comparison Method	(-) 80 to 25 °C	0.2 °C



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239	THERMAL-TEMPERATURE	Temperature Gauge, Digital Thermometer, RTD, Thermocouple, Temperature Sensor with or without Indicator/ Controller/ Logger/ Recorder, Temperature Transmitter	Using RTD with Indicator and oil bath by Comparison Method	25 °C to 250 °C	0.2 °C
240	THERMAL-TEMPERATURE	Temperature Gauge, Digital Thermometer, RTD, Thermocouple, Temperature Sensor with or without Indicator/ Controller / Logger / Recorder, Temperature Transmitter	Using RTD with Indicator and dry block by Comparison Method	250 °C to 600 °C	0.5 °C
241	THERMAL-TEMPERATURE	Temperature Gauge, Digital Thermometer, Thermocouple, Temperature Sensor with or without Indicator/ Controller/ Logger/ Recorder, Temperature Transmitter	Using S-type Thermocouple with DMM and dry block by Comparison Method	600 °C to 1200 °C	1.6 °C



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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)(±)
242	THERMAL-TEMPERATURE	Temperature Indicator or controller of Soldering Iron, Temperature Indicator or controller of Soldering Station	Using S type Thermocouple with indicator by Comparison Method	100 °C to 500 °C	3.4 °C
243	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Muffle Furnace, Dry Block Calibrator (single position calibration)	Using S Type Thermocouple with indicator by Comparison Method	250 °C to 1100 °C	1.7 °C
244	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven, Incubator, Autoclave, Freezer, Chamber, Sterilizer, Liquid Bath, Dry Block Calibrator (single position calibration)	Using RTD with Indicator by Comparison Method	(-) 80 °C to 250 °C	0.3 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Active Energy @ 50 Hz (50 V to 300 V, 20 mA to 1000 A, 0.5 PF (Lead/Lag) to UPF)	Using Energy Meter by Direct Method	10 Wh to 220 kWh	0.4 % to 0.94 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Active Power @ 50 Hz (50 V to 300 V, 20 mA to 1000 A, 0.5 PF (Lead/Lag) to UPF)	Using Power Meter by Direct Method	10 W to 220 kW	0.4 % to 0.94 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 5½ Digit DMM by Direct Method	0.1 mA to 200 mA	1.73 % to 0.43 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	1 mA to 10 mA	0.18 % to 0.25 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Current transformer and 6½ Digit DMM by Direct Method	10 A to 1000 A	0.26 % to 0.48 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Current Transformer with 5½ Digit DMM by Direct Method	10 A to 1000 A	0.73 % to 1.2 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	10 mA to 100 mA	0.25 % to 0.19 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	100 mA to 10 A	0.19 % to 0.26 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 5½ Digit DMM by Direct Method	200 mA to 10 A	0.43 % to 0.7 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	30 µA to 1 mA	0.88 % to 0.18 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1 kHz	Using LCR meter by Direct Method	1 ohm to 10 kohm	0.43 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 100 kHz	Using 6½ Digit DMM by Direct Method	100 mV to 100 V	0.79 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	0.5 kV to 28 kV	2.7 % to 3.2 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 5½ Digit DMM by Direct Method	200 mV to 750 V	0.5 % to 0.3 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit DMM by Direct Method	1 mV to 100 V	4.7 % to 0.1 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit DMM by Direct Method	100 V to 1000 V	0.1 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Meter by Direct Method	100 pF to 1 µF	0.7 % to 0.45 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 100 Hz	Using LCR Meter by Direct Method	10 µF to 100 µF	0.5 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using LCR Meter by Direct Method	100 µH to 10 H	0.76 % to 0.5 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz (50 V to 1000 V, 0.1 A to 1000 A)	Using Power / Energy Meter by Direct Method	0.3 (Lead/Lag) PF to UPF	1.3 % to 0.6 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase AC Active Power @ 50 Hz (10 V to 1000 V, 20 A to 1000 A, 0.5 PF (Lead/Lag) to UPF)	Using MFC with 50 Turns Current Coil by Direct Method	20 kW to 1 MW	0.2 % to 0.66 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase AC Active Energy @ 50 Hz (10 V to 1000 V, 0.1 A to 20 A, 0.5 PF (Lead/Lag) to UPF)	Using MFC by Direct Method	1 Wh to 20 kWh	0.54 % to 0.2 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase AC Active Energy @ 50 Hz (10 V to 1000 V, 20 A to 1000 A, 0.5 PF (Lead/Lag) to UPF)	Using MFC and Current Coil by Direct Method	20 kWh to 250 kWh	0.2 % to 0.66 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase AC Active Power @ 50 Hz (10 V to 1000 V, 0.1 A to 20 A, 0.5 PF (Lead/Lag) to UPF)	Using MFC by Direct Method	1 W to 20 kW	0.54 % to 0.2 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using MFC by Direct Method	3 A to 20 A	0.08 % to 0.18 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using MFC by Direct Method:	30 $\mu$ A to 330 mA	0.6 % to 0.06 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using MFC by Direct Method	330 mA to 3 A	0.06 % to 0.08 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using MFC with 50 Turns Current Coil by Direct Method	20 A to 1000 A	0.18 % to 0.4 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 100 kHz	Using MFC by Direct Method	10 mV to 200 V	0.8 % to 0.33 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using MFC by Direct Method	1 mV to 330 mV	2.5 % to 0.06 %



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31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using MFC by Direct Method	330 mV to 1000 V	0.06 % to 0.07 %
32	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using MFC by Direct Method	0.5 nF to 1 µF	2.9 % to 0.42 %
33	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using MFC by Direct Method	1 µF to 100 µF	0.42 % to 0.66 %
34	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz (50 V to 1000 V, 0.1 A to 1000 A)	Using MFC by Direct Method	0.2 (Lead/Lag) PF to UPF	1.5 % to 0.1 %
35	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Capacitance	Using 6½ Digit DMM by Direct Method	1 nF to 100 µF	5 % to 1.78 %
36	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Capacitance	Using 6½ Digit DMM by Direct Method	100 µF to 10 mF	1.76 % to 2 %



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37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5½ Digit DMM by Direct Method	1 µA to 2 mA	2.63 % to 0.045 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	1 µA to 400 mA	3.03 % to 0.07 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt and 5½ Digit DMM by Direct Method	10 A to 100 A	0.3 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 5½ Digit DMM by Direct Method	2 mA to 10 A	0.045 % to 0.26 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	400 mA to 10 A	0.06 % to 0.19 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	0.5 kV to 40 kV	2.3 %



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43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 6½ Digit DMM by Direct Method	10 kohm to 1000 Mohm	0.03 % to 2.94 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 5½ Digit DMM by Direct Method	2 kohm to 100 Mohm	0.1 % to 2.1 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using Current Source and 6½ Digit by V/I Method	1 mohm to 10 ohm	1.63 % to 0.06 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 5½ Digit DMM by Direct Method	1 ohm to 2 kohm	1.5 % to 0.1 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 6½ Digit DMM by Direct Method	10 ohm to 10 kohm	0.06 % to 0.03 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	0.1 mV to 10 V	4.1 % to 0.004 %



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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 5½ Digit DMM by Direct Method	1 mV to 220 mV	1.22 % to 0.06 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	10 V to 1000 V	0.004 % to 0.007 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 5½ Digit DMM by Direct Method	220 mV to 1000 V	0.01 % to 0.02 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	High Resistance (2 wire) @ 500 V to 5 kV	Using IR Tester by Comparison Method	10 Mohm to 1000 Gohm	1.4 % to 2.4 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	High Resistance (2 wire) @ Less than or equal to 5 kV	Using Voltage Source and 5½ Digit DMM by V/I Method	0.2 Mohm to 100 Mohm	0.12 % to 0.59 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	1 µA to 330 mA	2.34 % to 0.013 %



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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC with 50 Turn Current Coil by Direct Method	20 A to 1000 A	0.12 % to 0.65 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	330 mA to 20 A	0.013 % to 0.12 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 1000 V, 20 A to 1000 A)	Using MFC with Current Coil by Direct Method	20 kW to 1 MW	0.13 % to 0.66 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (10 V to 1000 V, 0.1 A to 20 A)	Using MFC by Direct Method	1 W to 20 kW	0.06 % to 0.13 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Resistance Box by Direct Method	100 kohm to 100 Mohm	0.065 % to 3.4 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using MFC by Direct Method	100 kohm to 33 Mohm	0.013 % to 0.13 %



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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using MFC by Direct Method	33 Mohm to 1000 Mohm	0.13 % to 1.76 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Resistance Box by Direct Method	1 mohm to 100 kohm	6 % to 0.065 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using MFC by Direct Method	1 Ohm to 100 kOhm	0.022 % to 0.015 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	0.1 mV to 330 mV	3.6 % to 0.008 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	330 mV to 1000 V	0.008 % to 0.007 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Resistance (2 Wire) @ Less than or equal to 5 kV	Using High Resistance Box by Direct method	10 Mohm to 1000 Gohm	0.6 % to 5.1 %



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67	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Turn Ratio	Using DMM's by V/V Method	1 to 300	0.15 % to 0.42 %
68	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth	Using MFC by Direct Method	50 kHz to 350 MHz	4.04 % to 6.2 %
69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time Base	Using MFC by Direct Method	5 ns to 1 s	0.012 % to 0.12 %
70	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Vertical Deflection (DC)	Using MFC by Direct Method	2 mV to 30 V	4.1 % to 0.34 %
71	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Vertical Deflection (Sine Wave @ 1 kHz)	Using MFC by Direct Method	2 mV <sub>p-p</sub> to 50 V <sub>p-p</sub>	4.1 % to 3.5 %
72	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Vertical Deflection (Square Wave @ 1 kHz)	Using MFC by Direct Method	2 mV <sub>p-p</sub> to 50 V <sub>p-p</sub>	4.2 % to 3.5 %



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73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using 6½ Digit DMM by Direct Method	600 °C to 1800 °C	0.5 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using 6½ Digit DMM by Direct Method	(-) 200 °C to 1000 °C	0.2 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using 6½ Digit DMM by Direct Method	(-) 200 °C to 1200 °C	0.2 °C
76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using 6½ Digit DMM by Direct Method	(-) 200 °C to 1370 °C	0.2 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using 6½ Digit DMM by Direct Method	(-) 200 °C to 1300 °C	0.3 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using 6½ Digit DMM by Direct Method	0 °C to 1700 °C	0.5 °C



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79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100)	Using 6½ Digit DMM by Direct Method	(-) 200 °C to 800 °C	0.2 °C
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using 6½ Digit DMM by Direct Method	0 °C to 1700 °C	0.5 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using 6½ Digit DMM by Direct Method	(-) 200 °C to 400 °C	0.2 °C
82	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using MFC by Direct Method	600 °C to 1800 °C	0.59 °C
83	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 1000 °C	0.6 °C
84	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 1200 °C	0.32 °C



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85	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 1200 °C	1.9 °C
86	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 1350 °C	0.5 °C
87	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 1370 °C	2 °C
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 1300 °C	0.5 °C
89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 1300 °C	2 °C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using MFC by Direct Method	0 °C to 1700 °C	0.66 °C



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91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Temperature Calibrator by Direct Method	0 °C to 1700 °C	3.4 °C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using MFC by Direct Method	(-) 200 °C to 800 °C	0.3 °C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using Temperature Calibrator by Direct Method	(-) 200 °C to 800 °C	1.2 °C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using MFC by Direct Method	0 °C to 1700 °C	0.53 °C
95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Temperature Calibrator by Direct Method	0 °C to 1700 °C	3.4 °C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 400 °C	0.7 °C



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97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Temperature Calibrator by Direct Method	(-) 200 °C to 400 °C	1.4 °C
98	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter by Direct Method	1 MHz to 350 MHz	0.012 % to 0.0031 %
99	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit DMM by Direct Method	10 Hz to 1 MHz	0.04 % to 0.012 %
100	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 5½ Digit DMM by Direct Method	20 Hz to 1 MHz	0.4 % to 0.04 %
101	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Frequency Source with Counter by Comparison Method	10 ms to 10 hr	0.58 ms to 0.9 s
102	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Time Interval Meter by Comparison Method	100 ms to 10 hr	6 ms to 20.7 s



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103	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Digital Storage Oscilloscope (DSO) by Comparison Method	5 ms to 1 s	0.05 ms to 2 ms
104	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MFC by Direct Method	10 Hz to 1 MHz	0.013 % to 0.002 %
105	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency (50 Ohm coaxial)	Using MFC by Direct Method	1 MHz to 350 MHz	0.002 %
106	FLUID FLOW-FLOW MEASURING DEVICES	Turbine Flow Meter, Ultrasonic Flow Meter - Flow Rate (Medium: Liquid, Water)	Using Ultrasonic Flow Meter by Comparison Method	35 m <sup>3</sup> /h to 98 m <sup>3</sup> /h	1.5 %
107	FLUID FLOW-FLOW MEASURING DEVICES	Turbine Flow Meter, Ultrasonic Flow Meter - Flow Rate (Medium: Liquid, Water)	Using Ultrasonic Flow Meter by Comparison Method	0.7 m <sup>3</sup> /hr to 27 m <sup>3</sup> /h	1.5 %
108	FLUID FLOW-FLOW MEASURING DEVICES	Turbine Flow Meter, Ultrasonic Flow Meter - Flow Rate (Medium: Liquid, Water)	Using Ultrasonic Flow Meter by Comparison Method	132 m <sup>3</sup> /h to 199.89 m <sup>3</sup> /h	1.5 %



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109	FLUID FLOW-FLOW MEASURING DEVICES	Turbine Flow Meter, Ultrasonic Flow Meter - Totalizer (Medium: Liquid, Water)	Using Ultrasonic Flow Meter by Comparison Method	1.2 m <sup>3</sup> to 25 m <sup>3</sup>	1.5 %
110	MECHANICAL-ACCELERATION AND SPEED	RPM indicator of Centrifuge, RPM indicator of Motors	Using Non-contact Tachometer by Comparison Method	200 rpm to 16500 rpm	0.53 %
111	MECHANICAL-ACCELERATION AND SPEED	Vibration Machine - Acceleration @ 10 Hz to 1000 Hz	Using Vibration meter by Comparison Method	3.93 m/s <sup>2</sup> to 300 m/s <sup>2</sup>	3.43 %
112	MECHANICAL-ACCELERATION AND SPEED	Vibration Machine - Displacement @ 10 Hz to 500 Hz	Using Vibration meter by Comparison Method	0.024 mm to 2.172 mm	4.67 %
113	MECHANICAL-ACCELERATION AND SPEED	Vibration Machine - Velocity @ 10 Hz to 1000 Hz	Using Vibration meter by Comparison Method	1.06 mm/s to 198.4 mm/s	3.67 %
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope (Linear movement) (L.C.: 0.01 mm)	Using Slip Gauge & Glass Scale by Direct Method	0 to 25 mm	0.007 mm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Microscope (Magnification)	Using Slip Gauge & Glass scale by Comparison Method	Upto 100X	0.5 %



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116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector (Angle measurement) (L.C.: 2')	Using Angle Gauge Set by Direct Method	0 to 180 °	1 '
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector (Linear Scale) (L.C. 0.001 mm)	Using Slip Gauge by Direct method	0 to 300 mm	0.0035 mm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector (Magnification)	Using Slip Gauge & Vernier Caliper by Comparison Method	Upto 100X	0.8 %
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Electronic Level by Direct Method	Upto 6000 x 4000 mm	1.7 sqrt (L+ W /150) μm (where L & W in mm)
120	MECHANICAL-PRESSURE INDICATING DEVICES	Differential Pressure Gauge, Magnehelic Gauge, Differential Pressure Sensor, Differential Pressure Transmitter	Using Differential Pressure Gauge with Comparator pump, DMM as per DKD R-6-1	0 to 100 mbar	1.57 %



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121	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Gauge, Hydraulic Pressure Sensor, Hydraulic Pressure Transmitter, Hydraulic Pressure Switch	Using Digital Pressure Gauge with Comparator pump, DMM as per DKD R-6-1	0 to 700 bar	0.5 %
122	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge, Pneumatic Pressure Sensor, Pneumatic Pressure Transmitter, Pneumatic Pressure Switch	Using Digital Pressure Gauge with Comparator pump, DMM as per DKD R-6-1	>7 to 30 bar	0.53 %
123	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge, Pneumatic Pressure Sensor, Pneumatic Pressure Transmitter, Pneumatic Pressure Switch	Using Digital Pressure Gauge with Comparator pump, DMM as per DKD R-6-1	0 to 7 bar	0.6 %
124	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge, Vacuum Sensor, Vacuum Transmitter, Vacuum Switch	Using Digital Vacuum Gauge with Comparator pump, DMM as per DKD R-6-1	0 to -0.9 bar	0.7 %



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125	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Compression Mode), Compression Testing Machine	Using Load cell with indicator of class 1 as per IS 1828-1 : 2022	1 kN to 10 kN	0.3 %
126	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Compression Mode), Compression Testing Machine	Using Load cell with indicator of Class 1 as per IS 1828-1 : 2022	10 kN to 100 kN	0.6 %
127	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Tension Mode), Tensile Testing Machine	Using Load cell with indicator of Class 1 as per IS 1828-1 : 2022	1 kN to 10 kN	0.3 %
128	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Tension Mode), Tensile Testing Machine	Using Load cell with indicator of Class 1 as per IS 1828-1 : 2022	10 kN to 100 kN	0.6 %
129	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (L.C.: 10 g)	Using Secondary Iron hook weights by Comparison Method as Per IS 16514 (Part 2) : 2019	> 1 kg to 10 kg	7 g



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130	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (L.C.: 100 g)	Using Secondary Iron hook weights by Comparison Method as Per IS 16514 (Part 2) : 2019	> 50 kg to 100 kg	60 g
131	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (L.C.: 5 g)	Using Secondary Iron hook weights by Comparison Method as Per IS 16514 (Part 2) : 2019	0 to 1 kg	3 g
132	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance (L.C.: 50 g)	Using Secondary Iron hook weights by Comparison Method as Per IS 16514 (Part 2) : 2019	> 10 kg to 50 kg	30 g
133	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class I and coarser (Readability : 0.001 mg)	Using Standard E1 weight as per OIML R 76-1	0 to 11 g	0.006 mg
134	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class I and coarser (Readability : 0.01 mg)	Using Standard E1 weight as per OIML R 76-1	0 to 120 g	0.021 mg
135	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class I and coarser (Readability : 0.1 mg)	Using Standard E1 weight as per OIML R 76-1	0 to 220 g	0.072 mg



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136	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class II and coarser (Readability : 0.001 g)	Using Standard E1 weight as per OIML R 76-1	0 to 3 kg	2.61 mg
137	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class II and coarser (Readability : 0.01 g)	Using Standard E1 weight as per OIML R 76-1	0 to 10 kg	8.85 mg
138	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class III and coarser (Readability : 0.1 g)	Using Standard E2 weight as per OIML R 76-1	0 to 30 kg	0.082 g
139	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class IV and coarser (Readability : 20 g)	Using Standard F2 & M1 weights as per OIML R 76-1	0 to 200 kg	19 g
140	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class IV and coarser (Readability : 5 g)	Using Standard E2 & F2 weights as per OIML R 76-1	0 to 100 kg	4.1 g
141	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE - Class IV and coarser (Readability : 50 g)	Using Standard E2, F2 & M1 weights as per OIML R 76-1	0 to 300 kg	47.4 g
142	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental Chamber, Stability Chamber, Humidity Chamber	Using RH Data logger (minimum 9 sensors) by Comparison Method	20 to 95 %rh @ 25°C	2.6 %rh



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143	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator of Environmental Chamber, Humidity Chamber (Single position calibration)	Using Digital RH and Temperature Indicator with sensor by Comparison Method	20 %rh to 95 %rh @ 25°C	1.6 %rh
144	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-Hygrometer, Hygrometer, RH Indicator with sensor, RH Controller with sensor, RH Recorder, RH Logger	Using Thermo-Hygrometer with Portable RH Generator by Comparison Method	20 %rh to 95 %rh @ 25°C	1.5 %rh
145	THERMAL-SPECIFIC HEAT & HUMIDITY	Thermo-Hygrometer, Hygrometer, RH Indicator with sensor, RH Controller with sensor, RH Recorder, RH Logger	Using Thermohygrometer and Fixed Point Salt solutions by Comparison Method	92 %rh @ 25°C	0.9 %rh
146	THERMAL-TEMPERATURE	Black Body Source @ Emissivity : 0.95	Using Infrared Thermometer by Comparison Method	25 to 300 °C	2.8 °C
147	THERMAL-TEMPERATURE	Black Body Source @ Emissivity : 0.95	Using Infrared Thermometer by Comparison Method	300 to 1050 °C	4.2 °C
148	THERMAL-TEMPERATURE	Chamber, Liquid Bath, Freezer, Refrigerator, Incubator	Using RTD with Data logger (minimum 9 sensors) by Comparison Method	(-) 80 to 25 °C	1.8 °C



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149	THERMAL-TEMPERATURE	Chamber, Liquid Bath, Oven, Furnace	Using RTD with Data logger (minimum 9 sensors) by Comparison Method	250 to 1100 °C	3.5 °C
150	THERMAL-TEMPERATURE	Chamber, Liquid Bath, Oven, Furnace, Incubator, Autoclave, Sterilizer	Using RTD with Data logger (minimum 9 sensors) by Comparison Method	25 to 250 °C	1.4 °C
151	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT with Indicator and oil bath by Comparison Method	25 to 250 °C	0.2 °C
152	THERMAL-TEMPERATURE	Temperature Gauge, Digital Thermometer, RTD, Thermocouple, Temperature Sensor with or without Indicator/ Controller/ Logger/ Recorder, Temperature Transmitter	Using RTD with Indicator and oil bath by Comparison Method	25 °C to 250 °C	0.2 °C



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153	THERMAL-TEMPERATURE	Temperature Gauge, Digital Thermometer, RTD, Thermocouple, Temperature Sensor with or without Indicator/ Controller / Logger / Recorder, Temperature Transmitter	Using RTD with Indicator and dry block by Comparison Method	250 °C to 600 °C	0.5 °C
154	THERMAL-TEMPERATURE	Temperature Gauge, Digital Thermometer, RTD, Thermocouple, Temperature Sensor with or without Indicator/ Controller/ Logger/ Recorder, Temperature Transmitter	Using RTD with Indicator and dry block by Comparison Method	(-) 30 °C to 25 °C	0.3 °C
155	THERMAL-TEMPERATURE	Temperature Gauge, Digital Thermometer, Thermocouple, Temperature Sensor with or without Indicator/ Controller/ Logger/ Recorder, Temperature Transmitter	Using S-type Thermocouple with DMM and dry block by Comparison Method	600 °C to 1200 °C	1.6 °C



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156	THERMAL-TEMPERATURE	Temperature Indicator or controller of Soldering Iron, Temperature Indicator or controller of Soldering Station	Using S type Thermocouple with indicator by Comparison Method	100 °C to 500 °C	3.4 °C
157	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Muffle Furnace, Dry Block Calibrator (single position calibration)	Using S Type Thermocouple with indicator by Comparison Method	250 °C to 1100 °C	1.7 °C
158	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven, Incubator, Autoclave, Freezer, Chamber, Sterilizer, Liquid Bath, Dry Block Calibrator (single position calibration)	Using RTD with Indicator by Comparison Method	(-) 80 °C to 250 °C	0.3 °C

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