



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ELECTRO METER CORPORATION, 35/1, MB ROAD UDAYPUR, BELGHARIA,  
KOLKATA, WEST BENGAL, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-4509

**Page No**

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**Validity**

11/08/2025 to 10/03/2029

**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)	AC Current @ 50 Hz to 10 kHz	Using reference multimeter by direct method	10 mA to 100 mA	0.091 % to 0.052 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 10 kHz	Using reference multimeter by direct method	100 mA to 1 A	0.052 % to 0.091 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 10kHz	Using reference multimeter by direct method	1 mA to 10 mA	0.052 % to 0.091 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 10kHz	Using reference multimeter by direct method	100 µA to 1 mA	0.054 % to 0.052 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Ac Current @ 50 Hz to 5 kHz	Using reference multimeter by direct method	1 A to 10 A	0.091 % to 0.12 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 5 kHz	Using reference multimeter by direct method	10 A to 20 A	0.12 % to 0.104 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50Hz to 10 kHz	Using reference multimeter by direct method	33 $\mu$ A to 100 $\mu$ A	0.16 % to 0.054 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (3 phase, 50 Hz)	Using LT+ & meter testing kit by direct method	3 X 240 V, 3 X 1 A, 3 X 5A, 30A, 0.5pf to 1 pf	0.24 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (3 phase, 50 Hz)	Using HT+ & meter testing kit by direct method	3 X 63.5V, 3 X 1A, 3 X 5A, 0.5pf to 1 pf	0.29 % to 0.27 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Ac Energy- 1 phase (50 Hz)	Using LT+ & meter testing kit by direct method	240 V, 1A, 5 A, 0.2 pf to 1 pf	0.29 % to 0.24 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @ 50 Hz	Using shunt & multimeter by direct method	20 A to 1000 A	0.229 % to 0.262 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage (50 Hz)	Using HV divider by direct/comparison method	1 kV to 25 kV	2.6 % to 2.63 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (1 phase, 50 Hz)	Using power meter by direct method	30 V, 0.03 A, 0.2 to 1 pf, 600 V, 20 A (0.18 W to 12 kW)	4.13 % to 0.78 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Ac Power (3 phase, 50 Hz)	Using LT+ & meter testing kit by direct method	3 X 240V, 3 X 1A, 3 X 5A, 0.2pf to 1 pf (0.144 kW to 3.6 kW)	0.85 % to 1.63 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Ac Power (3 phase, 50 Hz)	Using HT+ & meter testing kit by direct method	3 X 63.5V, 3 X 1A, 3 X 5A, 0.2pf to 1 pf (0.0381 kW to 0.9525 kW)	0.35 % to 0.66 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Ac Resistance (1 kHz)	Using digital LCR meter by direct method	1 ohm to 10 kohm	1.37 % to 0.91 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Ac Voltage (10 kHz to 20 kHz)	Using reference multimeter by direct method	1 mV to 200 V	1.043 % to 0.026 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 1 kHz)	Using reference multimeter by direct method	1 V to 10 V	0.013 % to 0.028 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Ac Voltage (50 Hz to 1 kHz)	Using reference multimeter by direct method	10 V to 100 V	0.028 % to 0.013 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 1 kHz)	Using reference multimeter by direct method	100 mV to 1 V	0.025 % to 0.013 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz to 1 kHz)	Using reference multimeter by direct method	100 V to 1000 V	0.013 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50Hz to 1kHz)	Using reference multimeter by direct method	1 mV to 100 mV	0.48 % to 0.025 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using digital LCR meter by direct method	1 nF to 1000 µF	1.25 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (100 Hz, 1 kHz)	Using digital LCR meter by direct method	100 µH to 10 H	1.28 % to 0.36 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Phase Angle (Lead/Lag)	Using phase angle calibrator by direct method	0 ° to 90 °	0.57 °
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor (Lead/Lag)	Using power meter by direct method, 300 V, 5 A	0.2 pf to 0.8 pf	0.0018 pf to 0.0024 pf
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor (Lead/Lag)	Using power meter by direct method at 300 V, 5A	0.8 pf to 1 pf	0.0024 pf to 0.0026 pf
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz to 10 kHz)	Using multifunction calibrator by direct method	200 µA to 300 mA	0.4 % to 0.27 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz to 10 kHz)	Using multifunction calibrator by direct method	300 mA to 2 A	0.27 % to 0.3 %



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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current (50 Hz to 1kHz)	Using multifunction calibrator by direct method	33 $\mu$ A to 200 $\mu$ A	0.99 % to 0.4 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz to 5 kHz)	Using multifunction calibrator by direct method	2 A to 20 A	0.145 % to 0.203 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	Using multifunction calibrator with 50 turn coil by direct method	20 A to 1000 A	0.203 % to 0.363 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (1 Phase 50 Hz)	Using multifunction calibrator with 50 turn coil by direct method	30 V, 0.03A, 0.2pf to 1pf, 600 V, 20 A, 0.2pf to 1 pf (0.18 W to 12 kW)	4.12 % to 0.55 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 kHz to 20 kHz)	Using multifunction calibrator by direct method	1 mV to 300 mV	1.944 % to 0.038 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 kHz to 20 kHz)	Using multifunction calibrator by direct method	300 mV to 300 V	0.043 % to 0.06 %



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36	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 10 kHz)	Using multifunction calibrator by direct method	1 mV to 300 mV	2.479 % to 0.043 %
37	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 10 kHz)	Using multifunction calibrator by direct method	300 mV to 1000 V	0.043 % to 0.039 %
38	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using capacitance box by direct method	10 $\mu$ F to 100 $\mu$ F	1.42 % to 1.65 %
39	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using capacitance box by direct method	10 nF to 10 $\mu$ F	1.17 % to 1.42 %
40	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using capacitance box by direct method	100 pF to 10 nF	4.63 % to 1.17 %
41	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	High Voltage (AC) for calibration of HV Sources & HV Probes	Using HV Source/AC/DC High Voltage Divider by direct/comparison method	1 kV to 25 kV	0.041 % to 2.735 %



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42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance (1kHz)	Using decade inductance box	10 $\mu$ H to 10 H	1.17 % to 1.15 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Oscilloscope	Using multifunction calibrator by direct method	0 to 600 MHz	6.17 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Oscilloscope	Using multifunction calibrator by direct method	1 mV DC to 25 V DC	4.982 % to 0.521 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Oscilloscope	Using multifunction calibrator by direct method	2 mV to 100 V (Peak to Peak)	2.631 % to 0.295 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Oscilloscope	Using multifunction calibrator by direct method	2 ns to 1000 ms	0.39 % to 0.02 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Phase Angle (Lead/Lag)	Using multifunction calibrator by direct method	0 ° to 90 °	0.61 °



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48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power factor (Lead/Lag)	Using multifunction calibrator by direct method	0.2 pf to 1 pf	0.003 pf
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using standard shunt by V/I method	0.1 A to 20 A	0.22 % to 0.4 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using reference multimeter by direct method	1 µA to 10 µA	0.075 % to 0.0078 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using reference multimeter by direct method	1 A to 10 A	0.022 % to 0.049 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using reference multimeter by direct method	1 mA to 100 mA	0.0015 % to 0.005 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using reference multimeter by direct method	10 µA to 100 µA	0.0078 % to 0.0014 %



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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using reference multimeter by direct method	10 A to 20 A	0.049 % to 0.047 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using reference multimeter by direct method	100 $\mu$ A to 1 mA	0.0014 % to 0.0015 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using reference multimeter by direct method	100 mA to 1 A	0.005 % to 0.022 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using shunt & multimeter by direct method	20 A to 1000 A	0.64 % to 0.24 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using reference multimeter by direct method	0.5 mV to 1 mV	0.04 % to 0.024 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using reference multimeter by direct method	1 mV to 100 mV	0.024 % to 0.0005 %



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60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using reference multimeter by direct method	1 V to 10 V	0.0004 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using reference multimeter by direct method	10 V to 100 V	0.0004 % to 0.0008 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using reference multimeter by direct method	100 mV to 1 V	0.0005 % to 0.0004 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using reference multimeter by direct method	100 V to 1000 V	0.0008 % to 0.0006 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	High Voltage (DC)	Using HV Sources/AC/DC HV Divider by direct/comparison method	1 KV to 50 KV	2.29 % to 2.28 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire & 4 wire)	Using reference multimeter by direct method	1 ohm to 10 ohm	0.006 %



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66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire & 4 wire)	Using reference multimeter by direct method	10 Mohm to 100 Mohm	0.0127 % to 0.03 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire & 4 wire)	Using reference multimeter by direct method	10 ohm to 100 ohm	0.006 % to 0.0013 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire & 4 wire)	Using reference multimeter by direct method	100 kohm to 1 Mohm	0.0022 % to 0.079 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire & 4 wire)	Using reference multimeter by direct method	100 kohm to 100 kohm	0.0013 % to 0.0022 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire )	Using reference multimeter by direct method	1 Mohm to 10 Mohm	0.079 % to 0.013 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using reference multimeter by direct method	0.1 ohm to 1 ohm	0.57 % to 0.057 %



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72	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (5 kV) 4-W	Using reference multimeter by direct method	100 Mohm to 1 Gohm	0.03 % to 0.196 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC current	Using multifunction calibrator by direct method	1 $\mu$ A to 200 $\mu$ A	2.45 % to 0.056 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator by direct method	2 A to 20 A	0.077 % to 0.14 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator by direct method	20 mA to 200 mA	0.015 % to 0.025 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator by direct method	200 $\mu$ A to 20 mA	0.056 % to 0.015 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multifunction calibrator by direct method	200 mA to 2 A	0.025 % to 0.077 %



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78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using multifunction calibrator with 50 turn coil by direct method	20 A to 1000 A	0.14 % to 0.62 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using HV Source/AC/DC High Voltage Divider by direct/comparison method	1 kV to 50 kV	0.69 % to 2.35 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator By Direct Method	1 mV to 100 mV	0.36 % to 0.008 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by direct method	1 V to 1000 V	0.0066 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multifunction calibrator by direct method	100 mV to 1 V	0.008 % to 0.0066 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance box by direct method	0.1 ohm to 100 kohm	0.609 % to 0.058 %



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84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance box by direct method	50 $\mu$ ohm to 2 mohm/100A	0.94 % to 0.57 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance box by direct method	50 $\mu$ ohm to 2 ohm/3A	0.94 % to 0.12 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance decade box by direct method	50 $\mu$ ohm to 20 mohm/30A	0.94 % to 0.23 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance box by direct method	50 $\mu$ ohm to 200 $\mu$ ohm/200A	0.94 % to 0.95 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance box by direct method	9 kohm/23 mA to 20 kohm/7 mA	0.204 % to 0.087 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low resistance (4-W)	Using low resistance box by direct method	9 ohm/0.8 A to 90 ohm/0.25 A	0.031 % to 0.058 %



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90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance box by direct method	90 mohm/4A to 0.9 ohm/1.6A	2.32 % to 0.61 %
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance box by direct method	90 ohm/0.25A to 900 ohm/80mA	0.06 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance box by direct method	900 ohm/80mA to 9 kohm/23mA	0.06 % to 0.204 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low resistance Fixed value	Using low resistance box by direct method	0.9 ohm/1,6 A to 9 ohm/0.8A	0.6 % to 0.031 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance Fixed value	Using low resistance decade box by direct method	50 µohm to 200 mohm/10A	0.94 % to 0.12 %
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance Fuxed value	Using low resistance box by direct method	10 mohm to 90 mohm/4A	2.5 % to 2.32 %



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96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using multifunction calibrator by direct method	1.09 kohm to 109.9 kohm	0.19 % to 0.014 %
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using multifunction calibrator by direct method	1.09 Mohm to 10.9 Mohm	0.15 % to 0.07 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using multifunction calibrator by direct method	10.9 Mohm to 109.9 Mohm	0.07 % to 0.7 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	IET lab decade resistance box by direct method	100 Gohm to 1 Tohm	1.27 % to 2.0 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2-W)	Using multifunction calibrator by direct method	109.9 kohm to 1.09 Mohm	0.014 % to 0.15 %
101	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4-W)	Using multifunction calibrator by direct method	329.9 ohm to 1.09 kohm	0.011 % to 0.19 %



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102	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (5 kV) 2-W	Using multifunction calibrator & IET lab decade resistance box by direct method	1 Gohm to 10 Gohm	0.63 % to 3.7 %
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2-W)	Using multifunction calibrator & IET lab decade resistance box by direct method	10 Gohm to 100 Gohm	1.34 % to 1.27 %
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4-W)	Using multifunction calibrator by direct method	1 ohm to 32.9 ohm	0.83 % to 0.015 %
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4-W)	Using multifunction calibrator by direct method	32.9 ohm to 329.9 ohm	0.015 % to 0.011 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (5 kV) 4-W	Using multifunction calibrator by direct method	109.9 Mohm to 1 Gohm	0.7 % to 0.63 %
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using multimeter by direct method	600 °C to 1800 °C	0.032 °C



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108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using multimeter by direct method	(-)-250 °C to 0 °C	0.2 °C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using multimeter by direct method	0 to 1000 °C	0.2 °C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type (Thermocouple)	Using multimeter by direct method	(-)-210 °C to 0 °C	0.06 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J type Thermocouple	Using multimeter by direct method	0 to 1200 °C	0.27 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using multimeter by direct method	(-)-200 °C to 0 °C	0.24 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using reference multimeter by direct method	0 to 1350 °C	0.05 °C



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114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using reference multimeter by direct method	(-)-200 °C to 0 °C	0.081 °C
115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using multimeter by direct method	0 to 1300	0.04 °C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using reference multimeter by direct method	0 to 1700 °C	0.06 °C
117	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt-100)	Using multimeter by direct method	(-)-200 °C to 0 °C	0.009 °C
118	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt-100)	Using multimeter by direct method	0 to 800 °C	0.0035 °C
119	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using multimeter by direct method	0 to 1700 °C	0.04 °C



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120	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using multimeter by direct method	(-)-200 °C to 0 °C	0.1 °C
121	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using multimeter by direct method	0 to 400 °C	0.009 °C
122	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using multifunction calibrator by direct method	600 °C to 1800 °C	0.52 °C
123	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using multifunction calibrator by direct method	(-)-250 °C to 0 °C	0.69 °C
124	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using multifunction calibrator by direct method	0 to 1000 °C	0.26 °C
125	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J type Thermocouple	Using multifunction calibrator by direct method	(-)-200 °C to 0 °C	0.33 °C



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126	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using multifunction calibrator by direct method	0 to 1200 °C	0.28 °C
127	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using multifunction calibrator by direct method	(-)200 °C to 0 °C	0.41 °C
128	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using multifunction calibrator by direct method	0 to 1350 °C	0.47 °C
129	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using multifunction calibrator by direct method	(-)200 °C to 0 °C	0.48 °C
130	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using multifunction calibrator by direct method	0 to 1300 °C	0.33 °C
131	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using multifunction calibrator by direct method	0 to 1700 °C	0.67 °C



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132	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt-100)	Using multifunction calibrator by direct method	(-)200 °C to 0 °C	0.01 °C
133	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt-100)	Using multifunction calibrator by direct method	0 to 800 °C	0.06 °C
134	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S type Thermocouple	Using multifunction calibrator by direct method	0 to 1700 °C	0.54 °C
135	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using multifunction calibrator by direct method	(-)200 °C to 0 °C	0.75 °C
136	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T type Thermocouple	Using multifunction calibrator by direct method	0 to 400 °C	0.2 °C
137	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using frequency counter by direct/comparison method	20 MHz to 600 MHz	0.029 % to 0.0011 %



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138	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using frequency counter by direct method	3 Hz to 20 MHz	0.192 % to 0.029 %
139	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using frequency counter by direct/comparison method	600 MHz to 3 GHz	0.0011 % to 0.51 %
140	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Calibrator	Using programmable electronic timer by comparison method	10 s to 1200 s	0.011 % to 0.0017 %
141	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Calibrator	Using programmable electronic timer by comparison method	1200 s to 86400 s	0.0017 % to 0.0036 %
142	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Calibrator	Using programmable electronic timer by comparison method	20 ms to 10 s	2.887 % to 0.012 %
143	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using multifunction calibrator scope option by direct method	1 MHz to 600 MHz	0.3 % to 0.8 %



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144	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using multifunction calibrator by direct method	10 Hz to 45 Hz	0.37 % to 0.3 %
145	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using multifunction calibrator by direct method	45 Hz to 1 MHz	0.3 %
146	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using multifunction calibrator by direct method	5 Hz to 10 Hz	0.33 % to 0.37 %
147	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer ( Non Contact Type)	Using Mechanical tachogenerator & Digital tachometer by comparison method	30001 rpm to 90000 rpm	0.33 % of rdg
148	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non Contact Type)	Using Mechanical tachogenerator & Digital tachometer by comparison method	10 rpm to 500 rpm	4 % of rdg
149	MECHANICAL-ACCELERATION AND SPEED	Digital Tachometer (Non Contact Type)	Using Mechanical tachogenerator & Digital tachometer by comparison method	5001 rpm to 30000 rpm	0.51 % of rdg



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150	MECHANICAL-ACCELERATION AND SPEED	Digital tachometer (Non Contact Type)	Using Mechanical tachogenerator & Digital tachometer by comparison method	501 rpm to 5000 rpm	0.15 % of rdg
151	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using sound level calibrator by direct method as per OIMLR-58	114 dB	1.17 dB
152	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using sound level calibrator by direct method as per OIMLR-59	94 dB	1.03 dB
153	MECHANICAL-DENSITY AND VISCOSITY	Capillary Kinematic Viscometer (Measurement of Viscometer Constant-Direct Flow)	Using std Newtonian Liquids & direct flow viscometer (modified Ostwald viscometer) as per ISO 3104 & IS 3105	0.002 mm <sup>2</sup> /s to 20 mm <sup>2</sup> /s	0.50 %
154	MECHANICAL-DENSITY AND VISCOSITY	Capillary Kinematic Viscometer (Measurement of Viscometer Constant-Reverse Flow)	Using std Newtonian Liquids & reverse flow viscometer as per ISO 3105	0.002 mm <sup>2</sup> /s to 20 mm <sup>2</sup> /s	0.5 %
155	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometers	Using std density hydrometer & liquids of known densities as per IS 3104 (Part I)	0.6 g/cm <sup>3</sup> to 0.8 g/cm <sup>3</sup>	0.0008 g/cm <sup>3</sup>



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156	MECHANICAL-DENSITY AND VISCOSITY	Density Hydrometers	Using std density hydrometer & liquids of known densities as per IS 3104 (Part I)	0.8 g/cm <sup>3</sup> to 1.1 g/cm <sup>3</sup>	0.0008 g/cm <sup>3</sup>
157	MECHANICAL-DENSITY AND VISCOSITY	Ford Cup/Flow Cup	Using std viscometer oil & Newtonian Liquids as per ASTM 1200D	1 size to 5 size	1.51 %
158	MECHANICAL-DENSITY AND VISCOSITY	Kinematic Viscosity of Newtonian Liquid	Using std Newtonian Liquids & viscometer (modified Ostwald viscometer) as per ISO 3104	1 cSt to 10 cSt	0.42 %
159	MECHANICAL-DENSITY AND VISCOSITY	Kinematic Viscosity of Newtonian Liquid	Using std Newtonian Liquids & viscometer (modified Ostwald viscometer) as per ISO 3104	10 cSt to 100 cSt	0.0061 cSt
160	MECHANICAL-DENSITY AND VISCOSITY	Kinematic Viscosity of Newtonian Liquid	Using std Newtonian Liquids & viscometer (modified Ostwald viscometer) as per ISO 3104	100 cSt to 1000 cSt	0.0067 cSt
161	MECHANICAL-DENSITY AND VISCOSITY	Kinematic Viscosity of Newtonian Liquid	Using std Newtonian Liquids & viscometer (modified Ostwald viscometer) as per ISO 3104	1000 cSt to 10000 cSt	0.42 %



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162	MECHANICAL-DENSITY AND VISCOSITY	Specific Gravity Hydrometers	Using std specific gravity hydrometer & liquids of known densities as per IS 3104 (Part I)	1 sp.gr. to 2 sp.gr.	0.0012 sp.gr
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge Block Steel	Using sine bar, steel slip gauge, electronic comparator by comparison method	0 ° to 45 °	4.9 " of arc
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Protractor or Combination set, LC: 5 min (Angle)	Using profile projector by comparison method	0 ° to 180 °	2.91 min of arc
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor, LC: 5 min (Angle)	Using profile projector by comparison method	0 ° to 360 °	4.72 min of arc
166	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - Transmission Range 2 mm	Using slip gauge block-steel & outside micrometer	0 to 160 mm	4.02 μm



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167	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - Transmission Range 2 mm	Using slip gauge block-steel & outside micrometer	160 mm to 400 mm	4.02 µm
168	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) LC: 0.01 mm	Using 0 grade gauge block-steel	0 to 1000 mm	13.38 µm
169	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) , LC: 0.01 mm	Using 0 grade gauge block-steel	0 to 300 mm	7.85 µm
170	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier/Dial/Digital) , LC: 0.01 mm	Using 0 grade gauge block-steel	0 to 600 mm	7.91 µm
171	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper Checker	Using steel gauge block, lever type dial gauge, height gauge, long steel slip gauge block & surface plate by comparison method	0 to 600 mm	9.5 µm



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172	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge, LC: 0.1µm	Using std thickness foils	0 to 2 mm	4 µm
173	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Contraction Scale/Shrinkage Scale, LC: 1 mm	Using digital linear scale calibrator	0 to 1000 mm	32.80 µm
174	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring pin	Using ULM by comparison method	0.001 mm to 20 mm	1.3 µm
175	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier/Dial/Digital) , LC: 0.01 mm	Using steel gauge block, long slip gauge blocks-steel & surface plate	0 to 300 mm	12 µm
176	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier/Dial/Digital) , LC: 0.01 mm	Using steel gauge block, long slip gauge blocks-steel & surface plate	300 mm to 600 mm	8.9 µm



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177	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer, LC: 0.01 mm	Using steel gauge block, long slip gauge blocks-steel & surface plate	0 to 300 mm	9.51 µm
178	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Calibration Tester	Using steel gauge block, plunger type dial gauge by comparison method	0 to 25 mm	1.74 µm
179	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator (Lever type), LC: 0.001 mm	Using ULM by comparison method	0 to 0.8 mm	1.5 µm
180	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Indicator (Plunger type), LC: 0.001 mm	Using ULM by comparison method	0 to 25 mm	1.59 µm
181	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge Upto 50 mm, LC: 0.01 mm	Using steel gauge block	0 to 50 mm	2.38 µm



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182	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Comparator	Using steel gauge block by comparison method	0 to 10 mm	0.5 µm
183	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (All type), LC: 0.001 mm	Using steel gauge block by comparison method	0 to 100 mm	1.7 µm
184	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (All type), LC: 0.001 mm	Using steel gauge block by comparison method	100 mm to 600 mm	7.1 µm
185	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (All type), LC: 0.001 mm	Using steel gauge block by comparison method	600 mm to 1000 mm	7.5 µm
186	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Digital Dial Indicator/ULM	0.05 mm to 2 mm	0.58 µm



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187	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Digital Dial Indicator/ULM	0 to 1 mm	1.77 μm
188	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge, LC: 0.01 mm	Using steel gauge block, long slip gauge blocks-steel & surface plate	0 to 1000 mm	9.5 μm
189	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge, LC: 0.01 mm	Using steel gauge block, long slip gauge blocks-steel & surface plate	0 to 600 mm	8.3 μm
190	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclino Meter, LC: 0.01°/0.1°/1°	Using angle gauge set & rotary table by comparison method	0 ° to 180 °	3.04 min of arc
191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Caliper (Dial/Digimatic), LC: 0.01 mm	Using steel gauge block by comparison method	10 mm to 150 mm	4.79 μm



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192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Stick type), LC: 0.001 mm	Using steel gauge block by comparison method	50 mm to 600 mm	8.70 $\mu$ m
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale, LC: 0.5 mm	Using digital linear scale calibrator	0 to 1000 mm	32.80 $\mu$ m
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer head/Drum, LC: 0.2mm	Using steel gauge, Plunger(digital) dial gauge by comparison method	0 to 25 mm	1 $\mu$ m
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pi Tape, LC: 0.1 mm	Using digital linear scale calibrator	0 to 3 m	301 $\mu$ m
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper, LC: 0.01 mm	Using steel gauge block	0 to 100 mm	11.66 $\mu$ m



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197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge	Using profile projector	0.4 mm to 6 mm	5 µm
198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge (Angle)	Using profile projector by comparison method	55 ° to 60 °	4 min of arc
199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge (Eff. dia)	Using ULM	3 mm to 200 mm	2.2 µm
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge/Cylindrical Setting Master	Using ULM	5 mm to 200 mm	2.2 µm
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector & Microscope (Magnification)	Using glass scale, angle gauge block-steel & digital caliper by comparison method	10 X to 50 X	0.2 %



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202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector & Microscope- Linear, LC: 0.001 mm	Using glass scale, angle gauge block-steel & digital caliper	X axis=0 to 150 mm	4.16 µm
203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector-Linear (Angle)	Using glass scale, angle gauge block-steel & digital caliper	0 ° to 360 °	2 min of arc
204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector-Linear, LC: 0.001mm	Using glass scale, angle gauge block-steel & digital caliper	Y axis=0 to 100 mm	3.1 µm
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using profile projector	1 mm to 25 mm	4.3 µm
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Raiser Block	Using steel gauge block, long slip gauge blocks-steel & electronic probe with DRO	100 mm to 300 mm	14 µm



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207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod/Length Bar (Length)	Gauge block surface plate & electronic comparator	200 mm to 500 mm	11.07 µm
208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rod/Length Bar(Length)	Gauge block surface plate & electronic comparator	25 mm to 200 mm	4.74 µm
209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (200 mm)	Using steel gauge block, lever dial gauge, angle gauge block	0 ° to 45 °	3 "
210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using ULM by comparison method	3 mm to 300 mm	4.46 µm
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level/Frame type Level, LC: 0.02mm/m	Using steel gauge block & sine bar by comparison method	0 to 300 mm	6.25 µm



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212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foils	Using plunger type (digital) dial gauge by comparison method	0.0001 mm to 2 mm	2.54 µm
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Wire Gauge	Using profile projector	0.19 mm to 10 mm	11.64 µm
214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel gauge Block	Using K grade steel gauge block & gauge block calibrator	0.5 mm to 10 mm	0.18 µm
215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Gauge Block	Using K grade steel gauge block & gauge block calibrator	10 mm to 25 mm	0.2 µm
216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Gauge Block	Using K grade steel gauge block & gauge block calibrator	25 mm to 50 mm	0.28 µm



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217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Gauge Block	Using K grade steel gauge block & gauge block calibrator	50 mm to 100 mm	0.54 $\mu$ m
218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel Tape, LC:0.5mm/1mm	Using digital linear scale calibrator	0 to 200 m	59 X sqrt(L), L is in m
219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge(Parallelism of working faces)	Using steel gauge block, Electronic comparator, electronic level by comparison method:	0 to 1000 mm	12.3 $\mu$ m
220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge(Straightness)	Using steel gauge block, Electronic comparator, electronic level by comparison method	0 to 1000 mm	12.3 $\mu$ m
221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using electronic level	5000 mm to 5000 mm	0.7 X sqrt(L+W)/125 $\mu$ m



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222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge (Half Angle) (Eff. Dia)	Using ULM	0 ° to 3 °	1.6 " of arc
223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge (Angle Measurement) (Eff. Dia)	Using ULM, Gauge Block steels set, Ruby ball	0 ° to 3 °	3.7 " of arc
224	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Eff. Dia)	Using ULM, thread measuring wire, gauge block steel	3 mm to 100 mm	2.75 µm
225	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (eff. Dia)	Using ULM, thread measuring wire, master ring gauge	6 mm to 100 mm	3 µm
226	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using profile projector & digital caliper by comparison method	38 µm to 50 mm	8.63 µm



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227	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve	Using digital caliper by comparison method	50 mm to 125 mm	27.88 µm
228	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using ULM by comparison method	0.17 mm to 6.35 mm	0.98 µm
229	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Eff. Dia)	Using ULM	M3(3)mm to M100 M100(100)mm	9.8 µm
230	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Metric, G Thread & UNC Thread) Eff. Dia	Using ULM, thread measuring wire, gauge block steel by comparison method	100 mm to 200 mm	4.3 µm
231	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Eff. Dia)	Using ULM & Ruby probe	6 mm to 200 mm	4 µm



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232	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ULM (Linear Scale) LC: 0.0001mm	Using steel gauge block by comparison method	0 to 100 mm	1.1 µm
233	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Welding Gauge (Scale)	Using Profile Projector	0 to 60 mm	15.4 µm
234	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness Gauge	Using digital dial indicator by comparison method	0 to 3000 µm	7.44 µm
235	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Welding Gauge (Angle)	Using profile projector	0 ° to 60 °	3.3 min of arc
236	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Hydraulic Dead Weight Tester	Using dead weight tester by cross float as per Euromet CG-3 by comparison method	20 bar to 1000 bar	0.055 % of rdg



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237	MECHANICAL-PRESSURE BALANCE OR DEAD WEIGHT TESTER	Hydraulic Pressure Dead Weight Tester	Using dead weight tester by cross float as per Euromet CG-3 by comparison method	1 bar to 55 bar	0.061 % of rdg
238	MECHANICAL-PRESSURE INDICATING DEVICES	Dial/Digital Vacuum Gauges/Indicators & Calibrators, Mercury Manometer, Vacuum Switch, Vacuum Transmitter (Pneumatic)	Using digital vacuum gauge/mercury manometer with DRO by comparison method as per DKD-R-6-1	-0.93 bar to 0 bar	6.59 mbar
239	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial/Digital Pressure Gauges & Calibrators, Pressure Transmitters, Pressure Switch	Using digital pressure gauge & universal pressure calibrator (for DUC indication) by comparison method as per DKD-R-6-1	0 to 1000 bar	0.53 bar
240	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial/Digital Pressure Gauges & Calibrators, Pressure Transmitters, Pressure Switch	Using digital pressure gauge & universal pressure calibrator (for DUC indication) by comparison method as per DKD-R-6-1	0 to 30 bar	0.03 bar



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241	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial/Digital Pressure Gauges & Calibrators, Pressure Transmitters, Pressure Switch	Using digital pressure gauge & universal pressure calibrator (for DUC indication) by comparison method as per DKD-R-6-1	0 to 700 bar	0.25 bar
242	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial/Digital Pressure Gauges & Calibrators, Pressure transmitters, Pressure Switch	Using hydraulic dead weight tester & universal pressure calibrator (for DUC indication) by comparison method as per DKD-R-6-1	1 bar to 55 bar	0.061 bar
243	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial/Digital Pressure Gauges & Calibrators, Pressure Transmitters, Pressure Switch	Using hydraulic dead weight tester & universal pressure calibrator (for DUC indication) by comparison method as per DKD-R-6-1	20 bar to 1000 bar	0.75 bar
244	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Absolute Pressure) Dial/Digital Pressure Gauge, Pressure Transmitter, Pressure Switch/Aneroid Barometer	Using digital absolute pressure gauge (for DUC indication) by comparison method as per DKD-R-6-1	0.05 bar to 1.5 bar	1.13 mbar



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245	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial/Digital Pressure Gauges & Calibrators, Pressure Transmitters, Pressure Switch, Mercury Manometers	Using digital pressure gauge & universal pressure calibrator (for DUC indication) by comparison method as per DKD-R-6-1	0 to 20 bar	2.5 mbar
246	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial/Digital Pressure Gauges & Calibrators, Pressure Transmitters, Pressure Switch, Mercury Manometers, Magnehelic Gauges	Using digital pressure gauge & universal pressure calibrator (for DUC indication) by comparison method as per DKD-R-6-1	0 to 2 bar	0.67 mbar
247	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial/Digital Pressure Gauges & Calibrators, Pressure Transmitters, Pressure Switch, Mercury Manometers, Magnehelic Gauges	Using digital pressure gauge & universal pressure calibrator (for DUC indication) by comparison method as per DKD-R-6-1	0 to 73.5 mbar	0.38 % of rdg



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248	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I/Class B, C) & (Type II/Class A, B)	Using Torque sensor with indicator & Torque wrench calibration system based on ISO 6789 part 1 & 2 in clock wise direction only	30 Nm to 300 Nm	1.77 % of rdg
249	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I/class B, C) & (Type II/Class A, B)	Using Torque sensor with indicator & Torque wrench calibration system based on ISO 6789 part 1 & 2 in clock wise direction only	300 Nm to 3000 Nm	1.5 % of rdg
250	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench (Type I/Class B, C) & (Type II/Class A, B)	Using Torque sensor with indicator & Torque wrench calibration system based on ISO 6789 part 1 & 2 in clock wise direction only	3 Nm to 30 Nm	0.5 % of rdg



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251	MECHANICAL-VOLUME	Glass Burette	Using transfer pipettes (graduated/non graduated), digital precision balance (d: 0.01 mg), a set of weights & distilled water of known density as per ISO 4787 & ISO/TR 20461	1 ml to 25 ml	4.6 µl
252	MECHANICAL-VOLUME	Glass Burette	Using transfer pipettes (graduated/non graduated), digital precision balance (d: 0.01 mg), a set of weights & distilled water of known density as per ISO 4787 & ISO/TR 20461	25 ml to 100 ml	5.74 µl
253	MECHANICAL-VOLUME	glass Syringe/Micro Syringe (for non medical purpose only)	Using Microsyringe, Digital balance upto 6g/200g readability 0.001/0.01mg, A set of weights & distilled water of known density as per ISO 4787 & ISO/TR 20461	1 µl to 10 µl	0.004 µl



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254	MECHANICAL-VOLUME	Glass Syringe/Micro Syringe (for non medical purpose only)	Using Microsyringe, Digital balance upto 6g/200g readability 0.001/0.01mg, A set of weights & distilled water of known density as per ISO 4787 & ISO/TR 20461	10 µl to 500 µl	0.012 µl
255	MECHANICAL-VOLUME	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker	Using transfer pipette (graduated/non graduated), digital precision balance (d:0.01mg), a set of weights & distilled water of known density as per ISO 4787 & ISO/TR20461	1 ml to 10 ml	1.17 µl
256	MECHANICAL-VOLUME	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker	Using transfer pipettes (graduated/non graduated), digital precision balance (d: 10 mg), a set of weights & distilled water of known density as per ISO 4787 & ISO/TR 20461	100 ml to 1000 ml	114 µl



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257	MECHANICAL-VOLUME	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker	Using transfer pipettes (graduated/non graduated), digital precision balance (d: 10 mg), a set of weights & distilled water of known density as per ISO 4787 & ISO/TR 20461	1000 ml to 2000 ml	234 µl
258	MECHANICAL-VOLUME	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker	Using transfer pipettes (graduated/non graduated), digital precision balance (d: 0.01 mg), a set of weights & distilled water of known density as per ISO 4787, ASTM D 854-02 & ISO/TR 20461	50 ml to 100 ml	11.9 µl



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259	MECHANICAL-VOLUME	Measuring Cylinder/Volumetric Flask/Conical Flask/Beaker/Water Pycnometer (Sp. Gr. Bottle)	Using transfer pipettes (graduated/non graduated), digital precision balance (d: 0.01 mg), a set of weights & distilled water of known density as per ISO 4787 & ISO/TR 20461	10 ml to 50 ml	5.9 µl
260	MECHANICAL-VOLUME	Piston Pipette(Micro Pipette)/Digital Pipette	Using Micropipette, Digital balance upto 6g/200g readability 0.001/0.01mg, A set of weights & distilled water of known density as per ISO/TR 20461	10 µl to 20 µl	0.004 µl
261	MECHANICAL-VOLUME	Piston Pipette(Micro Pipette)/Digital Pipette	Using Micropipette, Digital balance upto 6g/200g readability 0.001/0.01mg, A set of weights & distilled water of known density as per ISO/TR 20461	1000 µl to 10000 µl	1.17 µl



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262	MECHANICAL-VOLUME	Piston Pipette(Micro Pipette)/Digital Pipette/Dispenser	Using Micropipette, Digital balance upto 6g/200g readability 0.001/0.01mg, A set of weights & distilled water of known density as per ISO/TR 20461	1 µl to 10 µl	0.0037 µl
263	MECHANICAL-VOLUME	Piston Pipette(Micro Pipette)/digital Pipette/Dispenser	Using Micropipette, Digital balance upto 6g/200g readability 0.001/0.01mg, A set of weights & distilled water of known density as per ISO/TR 20461	100 µl to 500 µl	0.059 µl
264	MECHANICAL-VOLUME	Piston Pipette(Micro Pipette)/digital Pipette/Dispenser	Using Micropipette, Digital balance upto 6g/200g readability 0.001/0.01mg, A set of weights & distilled water of known density as per ISO/TR 20461	20 µl to 100 µl	0.012 µl



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265	MECHANICAL-VOLUME	Piston Pipette(Micro Pipette)/Digital Pipette/Dispenser	Using Micropipette, Digital balance upto 6g/200g readability 0.001/0.01mg, A set of weights & distilled water of known density as per ISO/TR 20461	500 µl to 1000 µl	0.12 µl
266	MECHANICAL-VOLUME	Transfer Pipettes (Graduated/Non graduated)	Using transfer pipettes (graduated/non graduated), digital precision balance (d: 0.01 mg), a set of weights & distilled water of known density as per ISO 4787 & ISO/TR 20461	25 ml to 100 ml	11.7 µl
267	MECHANICAL-VOLUME	Transfer Pipettes(Graduated/ Non graduated)	Using transfer pipettes (graduated/non graduated), digital precision balance (d: 0.01 mg), a set of weights & distilled water of known density as per ISO 4787 & ISO/TR 20461	0.1 ml to 25 ml	2.9 µl



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268	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class I) readability 0.001mg	Using E1 class std weights 1mg to 200g for calibration of class I weighing balances & coarser as per OIML R-76	1 mg to 6.1 g	0.008 mg
269	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class I) Readability 0.01mg	Using E1 class std weights 1mg to 200g for calibration of class I weighing balances & coarser as per OIML R-76	6 g to 220 g	0.034 mg
270	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class II) Readability 0.010g	Using E2 class std weights >200g to 3kg for calibration of class II weighing balances & coarser as per OIML R-76	200 g to 3 kg	9 mg
271	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class III) Readability 0.001 kg	Using F2 class std weights >3kg to 60kg for calibration of class III weighing balances & coarser as per OIML R-76	20 kg to 60 kg	5.7 g
272	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class III) Readability 0.002kg	Using F2 class std weights >60kg to 100kg for calibration of class III weighing balances & coarser as per OIML R-76	60 kg to 100 kg	6 g



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273	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class III) Readability 0.5g	Using F2 class std weights >3kg to 60kg for calibration of class III weighing balances & coarser as per OIML R-76	3 kg to 20 kg	9 mg
274	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class III) Readability 20g	Using F2 class std weights & procedure as per OIML R-76	100 kg to 150 kg	11.6 g
275	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance of 6.1g & d: 0.001mg	1 g	0.0032 mg
276	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111 with electronic weighing balance of 6.1g & d: 0.001mg	1 mg	0.0022 mg
277	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance of 6.1g & d: 0.001mg	10 g	0.01 mg



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278	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111 with electronic weighing balance of 6.1g & d: 0.001mg	10 mg	0.0022 mg
279	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance of 200g & d: 0.01mg	100 g	0.020 mg
280	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance of 6.1g & d: 0.001mg	100 mg	0.0022 mg
281	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance of 6.1g & d: 0.001mg	2 g	0.0041 mg



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282	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance of 6.1g & d: 0.001mg	2 mg	0.0022 mg
283	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance of 200g & d: 0.01mg	20 g	0.011 mg
284	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance of 6.1g & d: 0.001mg	20 mg	0.0022 mg
285	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance of 220g & d: 0.01mg	200 g	0.032 mg



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286	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance of 6.1g & d: 0.001mg	200 mg	0.0022 mg
287	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance of 200g & d: 0.01mg	5 g	0.006 mg
288	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance of 6.1g & d: 0.001mg	5 mg	0.0022 mg
289	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance of 220g & d: 0.01mg	50 g	0.0124 mg



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290	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance of 6.1g & d: 0.001mg	50 mg	0.0022 mg
291	MECHANICAL-WEIGHTS	Accuracy class E2 & coarser	Using E1 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance of 6.1g & d: 0.001mg	500 mg	0.008 mg
292	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance upto 3kg & d: 0.01g	1 kg	5.85 mg
293	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance upto 3kg & d: 0.01g	2 kg	5.86 mg



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294	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using E2 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance upto 3kg & d: 0.01g	500 g	5.8 mg
295	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F2 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance upto 10kg & d: 0.2g	10 kg	129.10 mg
296	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F2 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance upto 20kg & d: 0.5g	20 kg	310 mg
297	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F2 class std weights ABBA method as per OIML R-111-1 with electronic weighing balance upto 5kg & d: 0.1g	5 kg	63 mg



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298	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Sensor with Indicator/Hygrometer (at 25 °C)	Using humidity chamber and Digital Thermohygrometer by comparison method	30 % RH to 90 % RH	2.71 %
299	THERMAL-TEMPERATURE	IR Thermometer/Laser Gun/Pyrometer	Using Black body source (Emissivity : 0.95) & standard non contact thermometer by comparison method	200 °C to 500 °C	4.65 °C
300	THERMAL-TEMPERATURE	IR Thermometer/Laser Gun/Pyrometer	Using Black body source (Emissivity : 0.95) & standard non contact thermometer by comparison method	50 °C to 200 °C	4.01 °C
301	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using liquid bath SSPRT & DAS by comparison method	(-)50 °C to 100 °C	0.65 °C
302	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using liquid bath and SSPRT & DAS by comparison method	(-)80 °C to -50 °C	0.60 °C
303	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using liquid bath SSPRT & DAS by comparison method	100 °C to 250 °C	0.79 °C



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304	THERMAL-TEMPERATURE	Non Contact type Temperature Indicator/Controller/Recorder/IR Thermometer/Laser Gun/Pyrometer	Using Black body source (Emissivity : 0.95) & standard non contact thermometer by comparison method	500 °C to 1500 °C	4.65 °C
305	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using liquid bath, SSPRT & DAS by comparison method	(-)-50 °C to 100 °C	0.54 °C
306	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using dry block bath, SSPRT & DAS by comparison method	(-)-50 °C to 100 °C	0.54 °C
307	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using dry block bath, SSPRT & DAS by comparison method	(-)-80 °C to 50 °C	0.56 °C



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308	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using liquid bath SSPRT & DAS by comparison method	100 °C to 250 °C	0.60 °C
309	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using dry block bath SSPRT & DAS by comparison method	100 °C to 250 °C	0.60 °C
310	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using liquid bath, SSPRT & DAS by comparison method	250 °C to 400 °C	0.93 °C
311	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using dry block bath, SSPRT & DAS by comparison method	250 °C to 400 °C	0.93 °C



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312	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using liquid bath, SSPRT & DAS by comparison method	-80 °C to -50 °C	0.56 °C
313	THERMAL-TEMPERATURE	Thermocouple with/without Indicator	Using Dry block bath & B type Thermocouple & DAS by comparison method	1200 °C to 1600 °C	2.16 °C
314	THERMAL-TEMPERATURE	Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using Dry block bath, R type Thermocouple with cold junction & DAS by comparison method	200 °C to 600 °C	1.78 °C
315	THERMAL-TEMPERATURE	Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using Dry block bath/Black body source, R type Thermocouple with cold junction & DAS by comparison method	600 °C to 1200 °C	4.07 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using precision multimeter by direct method	1 A to 20 A	0.24 % to 0.88 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using precision multimeter by direct method	30 µA to 300 µA	0.62 % to 0.34 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using precision multimeter by direct method	300 µA to 300 mA	0.33 % to 0.35 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using precision multimeter by direct method	300 mA to 1 A	0.36 % to 0.24 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (1 Phase, 50 Hz)	Using LT+ & meter testing kit by direct method	240 V, 1A, 5A, 30A, 0.2pf to 1 pf	0.29 % to 0.24 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (3 Phase, 50 Hz)	Using LT+ & meter testing kit by direct method	3 X 240V, 3X1A, 3X5A, , 0.5pf to 1 pf	0.87 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (3 Phase, 50 Hz)	Using HT+ & meter testing kit by direct method	3 X63.5V, 3X1A, 3X5A, 0.2pf to 1 pf	0.3 % to 0.5 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Current @ 50 Hz	Using shunt & multimeter by direct method	20 A to 1000 A	0.017 % to 0.250 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage (50 Hz)	Using HV divider with kV meter by direct/comparison method	1 kV to 100 kV	2.68 % to 2.59 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (1 Phase, 50 Hz)	Using digital power meter by direct method	30 V, 0.03A, 0.02pf to 1 pf,600V, 20A (0.18W to 12 kW)	4.65 % to 0.78 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (3 Phase, 50 Hz)	Using LT+ & meter testing kit by direct method	3 X240V, 3X1A, 3X5A, 0.2pf to 1 pf (0.144 kW to 3.6 kW)	0.87 % to 1.63 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power (3 Phase, 50 Hz)	Using HT+ & meter testing kit by direct method	3 X63.5V, 3X1A, 3X5A, 0.2pf to 1 pf (0.0381 kW to 0.9525 kW)	0.87 % to 1.14 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance (1 kHz)	Using digital LCR meter by direct method	1 ohm to 10 kohm	1.25 % to 0.7 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz, 1 kHz)	Using precision multimeter by direct method	1 mV to 100 mV	2.048 % to 0.120 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz, 1 kHz)	Using precision multimeter by direct method	1 V to 10 V	0.12 % to 0.084 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz, 1 kHz)	Using precision multimeter by direct method	10 V to 100 V	0.084 % to 0.93 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz, 1 kHz)	Using precision multimeter by direct method	100 mV to 1 V	0.120 % to 0.12 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz, 1 kHz)	Using precision multimeter by direct method	100 V to 1000 V	0.93 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using digital LCR meter by direct method	1 nF to 1000 µF	1.25 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (100 Hz, 1 kHz)	Using digital LCR meter by direct method	100 $\mu$ H to 10 H	1.28 % to 0.5 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Phase Angle (Lead/Lag)	Using phase angle meter by direct method	0 ° to 90 °	0.57 °
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor (Lead/Lag)	Using power meter by direct method	0.2 pf to 0.8 pf	0.0018 pf to 0.0024 pf
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor (Lead/Lag)	Using power meter by direct method	0.8 pf to 1 pf	0.0024 pf to 0.0026 pf
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz to 10 kHz)	Using multiproduct calibrator by direct method	200 $\mu$ A to 300 mA	0.4 % to 0.27 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz to 1kHz)	Using multiproduct calibrator by direct method	33 $\mu$ A to 200 $\mu$ A	0.99 % to 0.4 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz to 5 kHz)	Using multiproduct calibrator by direct method	2 A to 20 A	0.15 % to 1.19 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current (50 Hz to 10 kHz)	Using multiproduct calibrator by direct method	300 mA to 2 A	0.21 % to 0.15 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC High Current @ 50 Hz	Using multiproduct calibrator with 50 turn coil by direct method	20 A to 1000 A	0.44 % to 0.35 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (1 Phase, 50 Hz)	Using multiproduct calibrator with 50 turn coil by direct method	30 V, 0.03A, 0.2pf to 600 V, 20A, 1pf (0.18W to 12 kW)	4.099 % to 0.56 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 kHz to 20 kHz)	Using multiproduct calibrator by direct method	1 mV to 300 mV	2.62 % to 0.052 %



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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 kHz to 20 kHz)	Using multiproduct calibrator by direct method	300 mV to 300 V	0.052 % to 0.062 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 10 kHz)	Using multiproduct calibrator by direct method	1 mV to 300 mV	2.48 % to 0.049 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz to 10 kHz)	Using multiproduct calibrator by direct method	300 mV to 1000 V	0.049 % to 0.062 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using capacitance box by direct method	10 $\mu$ F to 100 $\mu$ F	1.42 % to 1.65 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using capacitance box by direct method	10 nF to 10 $\mu$ F	1.17 % to 1.42 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using capacitance box by direct method	100 pF to 10 nF	0.94 % to 1.17 %



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37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	High Voltage (AC) for calibration of HV sources & HV Probes	Using HV source/AC/DC HV divider by direct/comparison method	1 kV to 25 kV	0.062 % to 2.735 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance (1 kHz)	Using decade inductance box by direct method	10 $\mu$ H to 10 H	1.17 % to 1.15 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Phase Angle (Lead/Lag)	Using multiproduct calibrator by direct method	0 ° to 90 °	0.61 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor (Lead/Lag)	Using multiproduct calibrator by direct method	0.2 pf to 1 pf	0.003 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using precision multimeter by direct method	1 $\mu$ A to 10 $\mu$ A	2.54 % to 0.33 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using precision multimeter by direct method	1 A to 10 A	0.064 % to 0.14 %



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43	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using precision multimeter by direct method	1 mA to 100 mA	0.053 % to 0.024 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using precision multimeter by direct method	10 $\mu$ A to 100 $\mu$ A	0.33 % to 0.051 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using precision multimeter by direct method	10 A to 20 A	0.14 % to 0.13 %
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using precision multimeter by direct method	100 $\mu$ A to 1 mA	0.051 % to 0.053 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using precision multimeter by direct method	100 mA to 1 A	0.024 % to 0.064 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Current	Using shunt & multimeter by direct method	20 A to 1000 A	0.64 % to 0.250 %



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49	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV divider with kV meter by direct method	1 kV to 50 kV	2.29 % to 2.28 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using precision multimeter by direct method	1 mV to 100 mV	0.13 % to 0.009 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using precision multimeter by direct method	1 V to 10 V	0.0032 % to 0.0019 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using precision multimeter by direct method	10 V to 100 V	0.0019 % to 0.0042 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using precision multimeter by direct method	100 mV to 1 V	0.009 % to 0.0032 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using precision multimeter by direct method	100 V to 1000 V	0.0042 %



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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire & 4 Wire)	Using precision multimeter by direct method	0.1 ohm to 1 ohm	0.59 % to 0.061 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire & 4 Wire)	Using precision multimeter by direct method	1 Mohm to 10 Mohm	0.018 % to 0.046 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire & 4 Wire)	Using precision multimeter by direct method	1 ohm to 10 ohm	0.061 % to 0.056 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire & 4 Wire)	Using precision multimeter by direct method	10 Mohm to 100 Mohm	0.046 % to 0.31 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire & 4 Wire)	Using precision multimeter by direct method	10 ohm to 100 ohm	0.057 % to 0.0053 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire & 4 Wire)	Using precision multimeter by direct method	100 kohm to 1 Mohm	0.0069 % to 0.018 %



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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire & 4 Wire)	Using precision multimeter by direct method	100 Mohm to 1 Gohm	0.31 % to 2.12 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire & 4 Wire)	Using precision multimeter by direct method	100 ohm to 100 kohm	0.0053 % to 0.0069 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multiproduct calibrator by direct method	1 $\mu$ A to 200 $\mu$ A	2.45 % to 0.056 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multiproduct calibrator by direct method	2 A to 20 A	0.077 % to 0.14 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multiproduct calibrator by direct method	20 mA to 200 mA	0.015 % to 0.025 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multiproduct calibrator by direct method	200 $\mu$ A to 20 mA	0.056 % to 0.015 %



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67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using multiproduct calibrator by direct method	200 mA to 2 A	0.025 % to 0.077 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Current	Using multiproduct calibrator with 50 turn coil by direct method	20 A to 1000 A	0.290 % to 0.079 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multiproduct calibrator by direct method	1 mV to 100 mV	0.36 % to 0.013 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multiproduct calibrator by direct method	1 V to 1000 V	0.0066 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using multiproduct calibrator by direct method	100 mV to 1 V	0.013 % to 0.0066 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	High Voltage (DC)	Using HV Sources/AC/DC HV Divider by direct/comparison method	1 kV to 50 kV	0.009 % to 2.35 %



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73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance decade box by direct method	0.1 ohm to 100 kohm	0.61 % to 0.058 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance decade box by direct method	0.9 ohm/1.6A to 9 ohm/0.8A	0.61 % to 0.033 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance decade box by direct method	10 mohm to 90 mohm/4A	2.5 % to 2.32 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance decade box by direct method	50 µohm to 2 ohm/3A	0.94 % to 0.13 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance decade box by direct method	50 µohm to 20 mohm/30A	0.94 % to 0.23 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance decade box by direct method	50 µohm to 200 mohm/10A	0.94 % to 0.12 %



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79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance decade box by direct method	9 kohm/23mA to 20 kohm/7mA	0.2 % to 0.081 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low resistance (4-W)	Using low resistance decade box by direct method	9 ohm/0.8A to 90 ohm/0.25A	0.033 % to 0.061 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance (4-W)	Using low resistance decade box by direct method	90 mohm/4A to 0.9 ohm/1.6A	2.32 % to 0.6 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance Fixed value	Using low resistance decade box by direct method	50 µohm to 2 mohm/100A	0.94 % to 0.57 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance Fixed value	Using low resistance decade box by direct method	50 µohm to 200 µohm	0.94 % to 0.93 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance Fixed value	Using low resistance decade box by direct method	90 ohm/0.2 A to 900 ohm/80mA	0.061 %



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85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Low Resistance Fixed value	Using low resistance decade box by direct method	900 ohm/80 mA to 9 kohm/23mA	0.060 % to 0.199 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using multiproduct calibrator by direct method	1.09 kohm to 109.9 kohm	0.21 % to 0.014 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using multiproduct calibrator by direct method	1.09 Mohm to 10.9 Mohm	0.023 % to 0.078 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using multiproduct calibrator by direct method	109.9 kohm to 1.09 Mohm	0.014 % to 0.023 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using multiproduct calibrator by direct method	32.9 ohm to 329.9 ohm	0.067 % to 0.018 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using multiproduct calibrator by direct method	329.9 ohm to 1.09 kohm	0.018 % to 0.014 %



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91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2-W)	Using high resistance box by direct method	10 Gohm to 100 Gohm	3.98 % to 1.27 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2-W)	Using high resistance box by direct method	1 Gohm to 10 Gohm	0.63 % to 3.4 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2-W)	Using multiproduct calibrator & high resistance by direct method	109.9 Mohm to 1 Gohm	0.702 % to 0.63 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4-W)	Using multiproduct calibrator by direct method	1 ohm to 32.9 ohm	0.078 to 0.067
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4-W)	Using multiproduct calibrator by direct method	10.9 Mohm to 109.9 Mohm	0.078 % to 0.702 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (5 kV) 4-W	Using high resistance box by direct method	100 Gohm to 1 Tohm	1.27 % to 1.3 %



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97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using multimeter by direct method	600 °C to 1800 °C	0.22 °C
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using multimeter by direct method	(-)-250 °C to 0 °C	0.12 °C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using multiproduct calibrator by direct method	(-)-250 °C to 0 °C	0.3 °C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using multimeter by direct method	0 to 1000 °C	0.12 °C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J type Thermocouple	Using precision multimeter by direct method	(-)-210 °C to 0 °C	0.04 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using multimeter by direct method	0 to 1200 °C	0.15 °C



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103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K type Thermocouple	Using precision multimeter by direct method	(-)-200 °C to 0 °C	0.17 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K type Thermocouple	Using multimeter by direct method	0 to 1350 °C	0.24 °C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using multimeter by direct method	(-)-200 °C to 0 °C	0.14 °C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N type Thermocouple	Using multimeter by direct method	0 to 1300 °C	0.13 °C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using multimeter by direct method	0 to 1700 °C	0.29 °C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt-100)	Using multimeter by direct method	(-)-200 °C to 0 °C	0.01 °C



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109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (Pt-100)	Using multimeter by direct method	0 to 800 °C	0.14 °C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using multimeter by direct method	0 to 1700 °C	0.34 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using multimeter by direct method	(-)200 °C to 0 °C	0.09 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using multimeter by direct method	0 to 400 °C	0.06 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using multiproduct calibrator by direct method	600 °C to 1800 °C	0.6 °C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using multiproduct calibrator by direct method	0 to 1000 °C	0.26 °C



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115	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using multiproduct calibrator by direct method	(-)-210 °C to 0 °C	0.33 °C
116	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using multiproduct calibrator by direct method	0 to 1200 °C	0.28 °C
117	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using multiproduct calibrator by direct method	(-)-200 °C to 0 °C	0.41 °C
118	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using multiproduct calibrator by direct method	0 to 1350 °C	0.47 °C
119	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using multiproduct calibrator by direct method	(-)-200 to 0 °C	0.48 °C
120	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using multiproduct calibrator by direct method	0 to 1300 °C	0.33 °C



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121	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using multiproduct calibrator by direct method	0 to 1700 °C	0.69 °C
122	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt-100)	Using multiproduct calibrator by direct method	(-)200 °C to 0 °C	0.09 °C
123	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt-100)	Using multiproduct calibrator by direct method	0 to 800 °C	0.28 °C
124	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using multiproduct calibrator by direct method	0 to 1700 °C	0.69 °C
125	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using multiproduct calibrator by direct method	(-)200 °C to 0 °C	0.75 °C
126	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using multiproduct calibrator by direct method	0 to 400 °C	0.2 °C



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127	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using frequency counter by direct/comparison method	20 MHz to 600 MHz	0.029 % to 0.0011 %
128	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using frequency counter by direct/comparison method	3 Hz to 20 MHz	0.192 % to 0.029 %
129	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using frequency counter by direct/comparison method	600 MHz to 3 GHz	0.0011 % to 0.002 %
130	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Calibrator	Using programmable electronic timer by comparison method	10 s to 1200 s	0.012 % to 0.0017 %
131	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Calibrator	Using programmable electronic timer by comparison method	1200 s to 86400 s	0.0017 % to 0.0036 %
132	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Calibrator	Using programmable electronic timer by comparison method	20 ms to 10 s	2.887 % to 0.011 %



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133	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using multiproduct calibrator by direct method	1 MHz to 600 MHz	0.3 % to 0.83 %
134	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using multiproduct calibrator by direct method	10 Hz to 45 Hz	0.3 %
135	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using multiproduct calibrator by direct method	45 Hz to 1 MHz	0.014 % to 0.3 %
136	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using multiproduct calibrator by direct method	5 Hz to 10 Hz	0.33 % to 0.3 %
137	MECHANICAL-ACCELERATION AND SPEED	RPM of Centrifuge/Shaker/St irrer	using digital tachometer (SANAS TR 54-01)	40 rpm to 500 rpm	4 %
138	MECHANICAL-ACCELERATION AND SPEED	RPM of Centrifuge/Shaker/St irrer	Using digital tachometer-rpm generator (SANAS TR 54-01)	501 rpm to 17000 rpm	1.16 %



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139	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using sound level calibrator by direct method as per OIMLR-58	114 dB	1.17 dB
140	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using sound level calibrator by direct method as per OIMLR-59	94 dB	1.03 dB
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector & Microscope (Magnification)	Using glass scale, angle gauge block-steel & digital caliper by comparison method	10 X to 50 X	0.2 %
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile projector & Microscope-Linear, LC: 0.001 mm	Using glass scale, angle gauge block-steel & digital caliper	X axis=0 to 150 mm	4.16 µm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector-Linear (Angle)	Using glass scale, angle gauge block-steel & digital caliper	0 ° to 360 °	2 min of arc



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144	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Profile Projector-Linear, LC: 0.001mm	Using glass scale, angle gauge block-steel & digital caliper	Y axis=0 to 100 mm	3.1 µm
145	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using electronic level	5000 mm to 5000 mm	0.7 X sqrt(L+W)/125 µm
146	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ULM (Linear Scale) LC: 0.0001 mm	Using steel gauge block by comparison method	0 to 100 mm	1.1 µm
147	MECHANICAL-PRESSURE INDICATING DEVICES	Dial/Digital Vacuum Gauges/Indicators & Calibrators, Mercury Manometer, Vacuum Switch, Vacuum Transmitter (Pneumatic)	Using digital vacuum gauge/mercury manometer with DRO by comparison method as per DKD-R-6-1	-0.93 bar to 0 bar	6.59 mbar



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148	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial/Digital Pressure Gauges & Calibrators, Pressure Transmitters, Pressure Switch	Using digital pressure gauge & universal pressure calibrator (for DUC indication) by comparison method as per DKD-R-6-1	0 to 1000 bar	0.53 bar
149	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial/Digital Pressure Gauges & Calibrators, Pressure Transmitters, Pressure Switch	Using digital pressure gauge & universal pressure calibrator (for DUC indication) by comparison method as per DKD-R-6-1	0 to 30 bar	0.03 bar
150	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure Dial/Digital Pressure Gauges & Calibrators, Pressure Transmitters, Pressure Switch	Using digital pressure gauge & universal pressure calibrator (for DUC indication) by comparison method as per DKD-R-6-1	0 to 700 bar	0.25 bar
151	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure (Absolute Pressure) Dial/Digital Pressure Gauge, Pressure Transmitter, Pressure Switch/Aneroid Barometer	Using digital absolute pressure gauge (for DUC indication) by comparison method as per DKD-R-6-1	0.05 bar to 1.5 bar	1.13 mbar



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152	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial/Digital Pressure Gauges & Calibrators, Pressure Transmitters, Pressure Switch, Mercury Manometers	Using digital pressure gauge & universal pressure calibrator (for DUC indication) by comparison method as per DKD-R-6-1	0 to 20 bar	2.5 mbar
153	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial/Digital Pressure Gauges & Calibrators, Pressure Transmitters, Pressure Switch, Mercury Manometers, Magnehelic Gauges	Using digital pressure gauge & universal pressure calibrator (for DUC indication) by comparison method as per DKD-R-6-1	0 to 2 bar	0.67 mbar
154	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Dial/Digital Pressure Gauges & Calibrators, Pressure Transmitters, Pressure Switch, Mercury Manometers, Magnehelic Gauges	Using digital pressure gauge & universal pressure calibrator (for DUC indication) by comparison method as per DKD-R-6-1	0 to 73.5 mbar	0.38 % of rdg



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155	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Travel Speed of UTM	Using stop watch & digimatic caliper by comparison method	10 mm/min to 1000 mm/min	1.2 %
156	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of static Uni-axial Testing Machine (UTM, TTM & CTM) (Compression)	Using Class-0/0.5/1 Load Cells with indicator as per IS 1828(Part 1) 2015 & ISO 7500-1:2004/ASTM E4	100 kN to 200 kN	1.96 %
157	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Static Uni-axial Testing Machine (UTM, TTM & CTM) (Tension & Compression)	Using Class-0/0.5/1 Load Cells with indicator as per IS 1828(Part 1)2015 & ISO 7500-1:2004/ASTM E4	1000 N to 200 kN	0.59 %
158	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Static Uni-axial Testing Machine (UTM, TTM & CTM) (Tension & Compression)	Using load Cell with Indicator, Proving ring, height Gauge, Stop watch standards: ISO 7500-1:2018, ASTM E4-21, BIS IS 1828:Part 1:2022	20 N to 5000 N	0.52 %



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159	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class I) readability 0.001mg	Using E1 class std weights 1mg to 200g for calibration of class I weighing balances & coarser as per OIML R-76	1 mg to 6.1 g	0.008 mg
160	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class I) Readability 0.01mg	Using E1 class std weights 1mg to 200g for calibration of class I weighing balances & coarser as per OIML R-76	6 g to 220 g	0.034 mg
161	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class II) Readability 0.010g	Using E2 class std weights >200g to 3kg for calibration of class II weighing balances & coarser as per OIML R-76	200 g to 3 kg	9 mg
162	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class III) Readability 0.001 kg	Using F2 class std weights >3kg to 60kg for calibration of class III weighing balances & coarser as per OIML R-76	20 kg to 60 kg	5.7 g
163	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class III) Readability 0.002kg	Using F2 class std weights >60kg to 100kg for calibration of class III weighing balances & coarser as per OIML R-76	60 kg to 100 kg	6 g



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164	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class III) Readability 0.5g	Using F2 class std weights >3kg to 60kg for calibration of class III weighing balances & coarser as per OIML R-76	3 kg to 20 kg	9 mg
165	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance (Class III) Readability 20g	Using F2 class std weights & procedure as per OIML R-76	100 kg to 150 kg	11.6 g
166	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Humidity Chamber (at 25 °C)	Using Digital Thermohygrometer by comparison method	30 % RH to 90 % RH	2.71 % RH
167	THERMAL-TEMPERATURE	IR Thermometer/Laser Gun/Pyrometer	Using Black body source (Emissivity : 0.95) & standard non contact thermometer by comparison method	200 °C to 500 °C	4.65 °C
168	THERMAL-TEMPERATURE	IR Thermometer/Laser Gun/Pyrometer	Using Black body source (Emissivity : 0.95) & standard non contact thermometer by comparison method	50 °C to 200 °C	4.01 °C
169	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using liquid bath SSPRT & DAS by comparison method	(-)50 °C to 100 °C	0.65 °C



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170	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using liquid bath and SSPRT & DAS by comparison method	(-)80 °C to -50 °C	0.60 °C
171	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using liquid bath SSPRT & DAS by comparison method	100 °C to 250 °C	0.79 °C
172	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using liquid bath, SSPRT & DAS by comparison method	(-)50 °C to 100 °C	0.54 °C
173	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using dry block bath, SSPRT & DAS by comparison method	(-)50 °C to 100 °C	0.54 °C
174	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using dry block bath, SSPRT & DAS by comparison method	(-)80 °C to 50 °C	0.56 °C



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175	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using liquid bath SSPRT & DAS by comparison method	100 °C to 250 °C	0.60 °C
176	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using dry block bath SSPRT & DAS by comparison method	100 °C to 250 °C	0.60 °C
177	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using liquid bath, SSPRT & DAS by comparison method	250 °C to 400 °C	0.93 °C
178	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using dry block bath, SSPRT & DAS by comparison method	250 °C to 400 °C	0.93 °C



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179	THERMAL-TEMPERATURE	RTD Sensor & Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using liquid bath, SSPRT & DAS by comparison method	-80 °C to -50 °C	0.56 °C
180	THERMAL-TEMPERATURE	Thermal Chamber (Deep freezer/Refrigerator/incubator (for non medical purpose only)/BOD/Autoclave (for non medical purpose only)/Oven/Furnace/ Temperature Bath)	Using multi point measurement (9 channels), RTD/R type Thermocouple with cold junction, and DAS by comparison method	(-)80 °C to 250 °C	2.81 °C
181	THERMAL-TEMPERATURE	Thermal Chamber (Furnace/Oven - for non medical purpose)	Using multi point measurement R type Thermocouple with cold junction, DAS by comparison method by single position	600 °C to 1200 °C	4.6 °C
182	THERMAL-TEMPERATURE	Thermocouple with/without Indicator	Using Dry block bath & B type Thermocouple & DAS by comparison method	1200 °C to 1600 °C	2.16 °C



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183	THERMAL-TEMPERATURE	Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using Dry block bath, R type Thermocouple with cold junction & DAS by comparison method	200 °C to 600 °C	1.78 °C
184	THERMAL-TEMPERATURE	Thermocouple with/without Indicator/Recorder/Dial Thermometer/Thermostat	Using Dry block bath/Black body source, R type Thermocouple with cold junction & DAS by comparison method	600 °C to 1200 °C	4.07 °C

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