National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS PRIVATE LIMITED, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, JB KAVAL, NANDINI LAYOUT POST, BENGALURU, BENGALURU RURAL, KARNATAKA, INDIA

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	1 A to 20 A	0.310 % to 0.104 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	100 µA to 100 mA	0.053 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	100 mA to 1 A	0.053 % to 0.105 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	1 A to 20 A	4.52 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	20 A to 700 A	4.52 % to 1.82 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	700 A to 1000 A	1.82 % to 0.951%

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50 Hz @ 0.2 Lag 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	2.4 W to 960 W	0.41%
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	1 mV to 100 mV	0.469 % to 0.014 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	1 V to 100 V	0.081 % to 0.073 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	100 mV to 1 V	0.014 % to 0.081 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (45 Hz to 1 kHz)	Using 8½ Digital Multimeter by Direct method	100 V to 1000 V	0.073 % to 0.018 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 kHz to 100 kHz)	Using 8½ Digital Multimeter by Direct method	1 V to 20 V	0.57 % to 0.462 %

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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	1 µF to 100 µF	0.059 % to 0.116 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	1 nF to 100 nF	0.062 % to 0.060 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	100 nF to 1 µF	0.049 % to 0.059 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (1 kHz)	Using LCR Meter by Direct method	10 µH to 100 mH	0.236 % to 0.065 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (1 kHz)	Using LCR Meter by Direct method	100 mH to 10 H	0.065 % to 0.073 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Power, 1 Phase, 50 Hz @ 0.5 Lag 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	6 W to 2.4 kW	0.49 %

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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Power, 1 Phase, 50 Hz @ 0.8 Lead 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	9.6 W to 3.8 kW	0.26 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Power, 1 Phase, 50 Hz @ UPF 120 V to 240 V, 0.01 A to 20 A	Using Digital Power Meter by Direct method	1.2 W to 4.8 kW	0.24 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Capacitance (1 kHz)	Using Decade Capacitance Box by Direct method	1 nF to 100 µF	1.16 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Capacitance (100 Hz)	Using Multiproduct Calibrator by Direct method	1 µF to 30 µF	1.55%
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.073 % to 0.14 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	3.3 mA to 1 A	0.12 % to 0.074 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	30 µA to 330 µA	0.53 % to 0.17 %

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26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	330 µA to 3.3 mA	0.17 % to 0.12 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	3.3 mA to 3 A	0.12 % to 0.24 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	330 µA to 3.3 mA	0.28 % to 0.12 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 5 kHz)	Using Multiproduct Calibrator by Direct method	3 A to 20 A	3.50 % to 0.20 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Current source by Direct method	100 A to 1000 A	1.68 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Multiproduct Calibrator & Current Coil by Direct method	20 A to 1000 A	0.45 % to 0.37 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	1 V to 30 V	0.080 % to 0.042 %

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33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	100 mV to 1 V	0.086 % to 0.080 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 100 mV	0.12 % to 0.086 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	30 V to 300 V	0.20 % to 0.026 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	300 V to 1000 V	0.026 % to 0.038 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	1 mV to 3 mV	0.696 % to 0.254 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	3 mV to 30 mV	0.254 % to 0.044 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (450 kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 3 V	1.119 % to 0.294 %

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40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 kHz to 90 kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 30 V	0.280 % to 0.113 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (90 kHz to 100 kHz)	Using Multiproduct Calibrator by Direct method	30 V to 100 V	0.291 % to 0.024 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Multiproduct Calibrator by Direct method	220 pF to 1 µF	4.55 % to 1.14 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance (1 kHz)	Using Decade Inductance Box by Direct method	10 µH to 10 H	2.35 % to 1.16 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 0.01 A to 20 A, 120 V to 240 V	Using Multiproduct Calibrator by Direct method	0.2 Lag to UPF	0.0003 PF
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 230 V, 5 A	Using master Standard Calibrator by Direct Method	0.2 Lead to UPF	0.0003PF
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single phase AC Power 0.8 Lead, 50 Hz 120 V to 240 V, 0.1 A to 20 A	Using Multiproduct Calibrator by Direct method	9.6 W to 3.8 kW	0.20 %

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47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Power @ 50 Hz, 0.2 Lag, 120 V to 240 V, 0.01 A to 20 A	Using Multiproduct Calibrator by Direct method	2.4 W to 960 W	0.60 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single phase AC Power UPF @ 50 Hz, 0.01 A to 20 A, 120 V to 240 V	Using Multiproduct Calibrator by Direct method	1.2 W to 4.8 kW	0.12 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Power @ 50 Hz, 0.2 Lag, 120 V to 240 V, 0.01 A to 20 A	Using Multiproduct Calibrator by Direct method	6 W to 2.4 kW	0.39 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	1 A to 20 A	0.021 % to 0.052 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with Digital Multimeter by Direct method	1 A to 20 A	1.05 % to 1.15 %
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	1 mA to 100 mA	0.002 % to 0.009 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	10 µA to 100 µA	0.001%

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54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 µA to 1 mA	0.001 % to 0.002 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 mA to 1 A	0.009 % to 0.021 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with Digital Multimeter by Direct method	20 A to 1000 A	1.15 % to 1.20 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Power, 10 V to 600 V, 1 A to 20 A	Using Digital Power Meter by Direct method	10 W to 12 kW	0.10 % to 0.74 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	1 mV to 100 mV	0.239 % to 0.0007 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	1 V to 100 V	0.0007 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	100 mV to 1 V	0.0007 % to 0.00020 %

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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	100 V to 1000 V	0.0007 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8½ Digital Multimeter by Direct method	100 kohm to 1 Mohm	0.0008 % to 0.0014 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 2 Wire)	Using 8½ Digital Multimeter by Direct method	1 Gohm to 10 Gohm	0.828 % to 0.127 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 2 Wire)	Using 8½ Digital Multimeter by Direct method	1 Mohm to 10 Mohm	0.0010 % to 0.0031 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 2 Wire)	Using 8½ Digital Multimeter and by Direct method	10 kohm to 100 kohm	0.0007 % to 0.0009 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 2 Wire)	Using 8½ Digital Multimeter by Direct method	10 Mohm to 100 Mohm	0.0031 % to 0.017 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 2 Wire)	Using 8½ Digital Multimeter by Direct method	100 Mohm to 1 Gohm	0.0080 % to 0.602%

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68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 4 Wire)	Using Micro Ohm meter by Direct method	1 mohm to 150mohm	0.206 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (using 4 wire)	Using Master LCR meter by Direct method	1 ohm to 1 k ohm	0.061 % to 0.207 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 4 Wire)	Using 8½ Digital Multimeter by Direct method	1 ohm to 100 ohm	0.056 % to 0.058 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 4 Wire)	Using 8½ Digital Multimeter and by Direct method	10 ohm to 100 ohm	0.006 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 4 Wire)	Using 8½ Digital Multimeter by Direct method	100 ohm to 10 kohm	0.0010 % to 0.0007 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (using 4 wire)	Using Micro Ohm meter by Direct method	150 mohm to 1 ohm	0.206 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.028 % to 0.063 %

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75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	1 mA to 100 mA	0.016 % to 0.011 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 µA to 100 µA	0.25 % to 0.04 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 A to 20 A	0.063 % to 0.12 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Current source by Direct method	10 A to 200 A	0.5%
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	100 µA to 1 mA	0.023 % to 0.017 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	100 mA to 1 A	0.011 % to 0.028 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator & Current Coil by Direct method	20 A to 1000 A	0.062 % to 0.32 %

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82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1 V to 1000 V, 10 mA to 20 A	Using Multiproduct Calibrator by Direct method	1 kW to 19.9 kW	0.45 % to 0.86 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1 V to 1000 V, 10 mA to 20 A	Using Multiproduct Calibrator by Direct method	10 W to 1 kW	0.081 % to 0.45 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 mV to 10 mV	0.241 % to 0.025 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 V to 10 V	0.0015 % to 0.0017 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 mV to 100 mV	0.023 % to 0.004 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 V to 1000 V	0.0016 % to 0.0024 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	100 mV to 1 V	0.0039 % to 0.0016 %

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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)(±)
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 2 Wire)	Using Multiproduct Calibrator by Direct method	1 Mohm to 10 Mohm	0.0041 % to 0.016 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 2 Wire)	Using high stability Decade Mega Ohm Box by Direct method	1 Mohm to 100 Gohm	4.20 % to 1.2%
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 2 Wire)	Using Multiproduct Calibrator by Direct method	10 kohm to 100 kohm	0.0035 % to 0.0037 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 2 Wire)	Using Multiproduct Calibrator by Direct method	10 Mohm to 300 Mohm	0.014 % to 0.387 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 2 Wire)	Using high stability Decade Mega Ohm Box by Direct method	100 Gohm to 1 Tohm	1.2 % to 1.3 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 2 Wire)	Using Multiproduct Calibrator by Direct method	100 kohm to 1 Mohm	0.0037 % to 0.0041 %
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 2 Wire)	Using Multiproduct Calibrator by Direct method	300 Mohm to 1 Gohm	0.38 % to 1.80 %

SCOPE OF ACCREDITATION

Laboratory Name : VAIDYANATHESHWARA INSTRUMENTS PRIVATE LIMITED, NO.301/A, 9TH MAIN ROAD, 3RD CROSS, RAJIV GANDHI NAGAR, JB KAVAL, NANDINI LAYOUT POST, BENGALURU, BENGALURU RURAL, KARNATAKA, INDIA

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96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Multiproduct Calibrator by Direct method	1 kohm to 10 kohm	0.0038 % to 0.0036 %
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Fixed Resistor Box by Direct method	1 mohm	0.59 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Multiproduct Calibrator by Direct method	1 ohm to 10 ohm	0.13 % to 0.016 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Fixed Resistor Box by Direct method	10 mohm	0.59 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Multiproduct Calibrator by Direct method	10 ohm to 100 ohm	0.015 % to 0.005 %
101	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Fixed Resistor Box by Direct method	100 mohm	0.59 %
102	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Multiproduct Calibrator by Direct method	100 ohm to 1 kohm	0.004 % to 0.0038 %

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103	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Fixed Resistor Box by Direct method	150 mohm	0.59%
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Fixed Resistor Box by Direct method	5 mohm	0.59 %
105	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Amplitude-Sq wave Oscilloscope @1 kHz, 1 Mohm	Using Multiproduct Calibrator by Direct method	1 mV to 55 Vp-p	0.64 % to 0.21%
106	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Bandwidth - Oscilloscope	Using Multiproduct Calibrator by Direct method	50 kHz to 1 GHz @1V	4.27% to 7.92%
107	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope @ 1 Mohm	Using Multiproduct Calibrator by Direct method	1 mV to 130 V	0.53 % to 0.14 %
108	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Timer Marker / Oscilloscope	Using Multiproduct Calibrator by Direct method	1 ns to 5 s	0.0018 ns to 0.029 s
109	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Bandwidth	Using Synthesizer Sweeper Direct Method	10MHz to 10 GHz	1.18 dB

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110	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF & Microwave Frequency	Using Universal counter, Microwave frequency Counter by Direct Method	18 Hz to 20 GHz	5.84 µHz to 166.4 Hz
111	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF & Microwave Power	Using RF Power Meter with High Accuracy Power Sensor / spectrum analyser by Direct Method	10 dBm to (-) 80 dBm (10 MHz to 18 GHz)	0.2 dB to 0.38 dB
112	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Attenuation, Insertion Loss, Return Loss, Coupling Loss, De-Coupling Loss, Isolation Loss, Voltage Division Factor	Using RF Power Meter with High Accuracy Power Sensor and Signal Generator by direct method	0 dB to 30 dB (10 MHz to 3 GHz)	1.39 dB
113	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Time Period	Using Universal frequency counter Direct Method	4.44 ns to 0.1 s	0.00006 ns to 0.6 ms
114	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	VSWR	Using Network Analyzer by Direct Method	1.07 VSWR (10 MHz to 3 GHz)	0.038 rho
115	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Amplitude Modulation	Using Modulation Meter, Signal Generator by Direct Method	CF: 10 MHz to 1.3 GHz (Mod Rate: 1 kHz) (AM Dept: 5 % to 95 %)	2.65 %

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116	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency Modulation	Using Modulation Meter, Signal Generator by Direct Method	CF: 10 MHz to 1.3 GHz (Mod Rate: 1 kHz) (FM Dev: 10 kHz to 200kHz)	2.8 %
117	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF & Microwave Frequency	Using Arbitrary Waveform Generator/Signal Generator by direct Method	10 Hz to 20 GHz	5.81 µHz to 116 Hz
118	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF & Microwave Power	Using RF Signal Generator by direct Method	10 dBm to (-) 80 dBm (10 MHz to 18 GHz)	1.18 dB to 1.75 dB
119	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Time Period	Using Arbitrary Waveform Generator by Direct Method	40 ns to 0.1 s	0.00006 ns to 0.0012 ms
120	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD type	Using 6½ Digit Multimeter by Direct method	(-) 200 °C to 600 °C	0.19 °C
121	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'B' Type	Using Multiproduct Calibrator by Direct method	600 °C to 1800 °C	0.51 °C

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122	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'C' type	Using Multiproduct Calibrator by Direct method	100 °C to 2300 °C	0.99 °C
123	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'E' type	Using Multiproduct Calibrator by Direct method	(-) 250 °C to 1000 °C	0.73 °C
124	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'J' type	Using Multiproduct Calibrator by Direct method	(-) 210 °C to 1200 °C	0.31 °C
125	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'K' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 1370 °C	0.32 °C
126	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'L' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 900 °C	0.43 °C
127	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'N' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 1300 °C	0.32 °C
128	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'R' type	Using Multiproduct Calibrator by Direct method	100 °C to 1760 °C	0.55°C

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129	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'S' type	Using Multiproduct Calibrator by Direct method	100 °C to 1760 °C	0.55 °C
130	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'T' type	Using Multiproduct Calibrator by Direct method	(-) 250 °C to 400 °C	0.73°C
131	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'U' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 600 °C	0.65 °C
132	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 800 °C	0.13 °C
133	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'B' type	Using Multiproduct Calibrator by Direct method	600 °C to 1800 °C	0.51 °C
134	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'C' type	Using Multiproduct Calibrator by Direct method	100 °C to 2300 °C	0.97 °C
135	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'E' type	Using Multiproduct Calibrator by Direct method	(-) 250 °C to 1000 °C	0.58°C

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136	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'J' type	Using Multiproduct Calibrator by Direct method	(-) 210 °C to 1200 °C	0.31 °C
137	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'K' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 1350 °C	0.39 °C
138	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'L' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 900 °C	0.44 °C
139	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'N' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 1300 °C	0.31 °C
140	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'R' type	Using Multiproduct Calibrator by Direct method	100 °C to 1750 °C	0.55 °C
141	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'S' type	Using Multiproduct Calibrator by Direct method	100 °C to 1750 °C	0.54°C
142	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'T' type	Using Multiproduct Calibrator by Direct method	(-) 250 °C to 400 °C	0.73 °C

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143	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'U' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 600 °C	0.66 °C
144	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter by Direct method	10 Hz to 1 GHz	0.0011 % to 0.0012 %
145	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Calibrator by Comparison method	1 s to 9000 s	0.043 s to 1.08 s
146	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Calibrator by Comparison method	9000 s to 86400 s	1.08 s to 10.1 s
147	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct method	1 Hz to 1 GHz	0.0003 % to 0.006 %
148	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @ 160 Hz	Using Digital Vibration meter by Comparison method	50.1 m/s^2	3.06 %
149	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @ 160 Hz	Using Digital Vibration meter by Comparison method	10.0 m/s^2	2.83 %
150	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @ 160 Hz	Using Digital Vibration meter by Comparison method	20.1 m/s^2	2.50 %

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151	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @ 160 Hz	Using Digital Vibration meter by Comparison method	40.2 m/s^2	2.44 %
152	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @ 40 Hz	Using Digital Vibration meter by Comparison method	12.3 m/s^2	2.56 %
153	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @ 40 Hz	Using Digital Vibration meter by Comparison method	20.5 m/s^2	2.49 %
154	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @ 40 Hz	Using Digital Vibration meter by Comparison method	28.8 m/s^2	2.49 %
155	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @ 40 Hz	Using Digital Vibration meter by Comparison method	4.0 m/s^2	3.43 %
156	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @ 80 Hz	Using Digital Vibration meter by Comparison method	11.5 m/s^2	2.63 %
157	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @ 80 Hz	Using Digital Vibration meter by Comparison method	16.7 m/s^2	2.53 %
158	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @ 80 Hz	Using Digital Vibration meter by Comparison method	2.8 m/s^2	5.04 %
159	MECHANICAL-ACCELERATION AND SPEED	Acceleration (Peak) @ 80 Hz	Using Digital Vibration meter by Comparison method	6.6 m/s^2	2.96 %
160	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @ 160 Hz	Using Digital Vibration meter by Comparison method	0.009 mm	11.87 %
161	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @ 160 Hz	Using Digital Vibration meter by Comparison method	0.030 mm	4 %

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162	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @ 160 Hz	Using Digital Vibration meter by Comparison method	0.050 mm	3.4 %
163	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @ 160 Hz	Using Digital Vibration meter by Comparison method	0.126 mm	2.56 %
164	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @ 40 Hz	Using Digital Vibration meter by Comparison method	0.065 mm	3 %
165	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @ 40 Hz	Using Digital Vibration meter by Comparison method	0.196 mm	2.53 %
166	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @ 40 Hz	Using Digital Vibration meter by Comparison method	0.263 mm	2.53 %
167	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @ 80 Hz	Using Digital Vibration meter by Comparison method	0.046 mm	3.2 %
168	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @40Hz	Using Digital Vibration Meter by Comparison Method	0.459 mm	2.44 %
169	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @80 Hz	Using Digital Vibration meter by Comparison method	0.011 mm	10.27 %
170	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @80 Hz	Using Digital Vibration meter by Comparison method	0.026 mm	5 %
171	MECHANICAL-ACCELERATION AND SPEED	Displacement (Peak) @80 Hz	Using Digital Vibration meter by Comparison method	0.067 mm	2.83 %

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172	MECHANICAL-ACCELERATION AND SPEED	Stroboscope, Tachometer (Non Contact Type)	Using Tachometer Calibrator & Tachometer Calibration Source by Comparison method	60 rpm to 25000 rpm	3.8 %
173	MECHANICAL-ACCELERATION AND SPEED	Stroboscope, tachometer (Non Contact Type)	Using Tachometer Calibrator & Tachometer Calibration Source by Comparison method	25000 rpm to 45000 rpm	0.036 %
174	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Tachometer Calibrator & Tachometer Calibration Source by Comparison method	100 rpm to 7000 rpm	0.9 %
175	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) @ 40 Hz	Using Digital Vibration meter by Comparison method	16.1 mm/s	2.52 %
176	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) @ 40 Hz	Using Digital Vibration meter by Comparison method	48.7 mm/s	2.43 %
177	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) @ 40 Hz	Using Digital Vibration meter by Comparison method	65.1 mm/s	2.42 %
178	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) @ 40 Hz	Using Digital Vibration meter by Comparison method	82.0 mm/s	2.44 %
179	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) @ 80 Hz	Using Digital Vibration meter by Comparison method	33.3 mm/s	2.573 %
180	MECHANICAL-ACCELERATION AND SPEED	Velocity (Peak) @160 Hz	Using Digital Vibration meter by Comparison method	9.9 mm/s	2.893 %

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181	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @ 160 Hz	Using Digital Vibration meter by Comparison method	99.3 mm/s	5 %
182	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @ 80 Hz	Using Digital Vibration meter by Comparison method	13.2 mm/s	2.67 %
183	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @ 80 Hz	Using Digital Vibration meter by Comparison method	22.8 mm/s	2.59 %
184	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @ 80 Hz	Using Digital Vibration meter by Comparison method	5.7 mm/s	3.074 %
185	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @160 Hz	Using Digital Vibration meter by Comparison method	39.9 mm/s	2.893 %
186	MECHANICAL-ACCELERATION AND SPEED	Velocity(Peak) @160 Hz	Using Digital Vibration meter by Comparison method	69.7 mm/s	2.41 %
187	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound Level Calibrator by Comparison method	114 dB @1kHz	0.3 dB
188	MECHANICAL-ACOUSTICS	Sound Level Meter	Using Sound level Calibrator by Comparison Method	94 dB @1kHz	0.3 dB
189	MECHANICAL-DENSITY AND VISCOSITY	Density - Hydrometer with L.C: 0.0005 g/ ml	Using Hydrometer and liquid of appropriate density based on IS:3104 Part-1&2	0.600 g/ml to 1.8 g/ml	0.0009 g/ml
190	MECHANICAL-DENSITY AND VISCOSITY	Viscosity Cups, Zahn Cups	Using liquids of known Kinematic Viscosity by Comparison method	30 cst to 240 cst	0.40 %

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191	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	'V' - Block (Parallelism)	Using Mandrel & Lever Dial Gauge & 2D Height Gauge, Granite Surface plate by Comparison method	Up to 200 mm	6.22 µm
192	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	'V' - Block (Squareness)	Using Mandrel & Lever Dial Gauge & 2D Height Gauge, Granite Surface plate, Granite Square by Comparison method	Up to 200 mm	10.10 µm
193	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	'V' - Block (Symmetricity)	Using Mandrel & Lever Dial Gauge & 2D Height Gauge, Granite Surface plate by Comparison Method	Up to 200 mm	6.22 µm
194	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	3 Point Micrometer, L.C.: 0.001 mm	Using Ring Gauges by Comparison method	0 to 100 mm	3.72 µm
195	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Graticule L.C: 1°	Using Profile Projector by Comparison method	0° to 180°	18 minute of Arc
196	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Flatness)	Using Lever Dial Gauge, 2D Height Gauge, Granite Square, Surface Plate by Comparison method	450*350 mm	11.6 µm

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197	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Parallelism)	Using Lever Dial Gauge, 2D Height Gauge, Granite Square, Surface Plate by Comparison method	450*350 mm	11.52 um
198	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Squareness)	Using Lever Dial Gauge, 2D Height Gauge, Granite Square, Surface Plate by Comparison method	450 * 350 mm	19.70 µm
199	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co-axiality)	Using Test Mandrel & Lever dial gauge by Comparison method	300 mm to 500 mm	6.06 µm
200	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (parallelism)	Using Test Mandrel & Lever dial gauge by Comparison method	300 mm to 500 mm	3.0 µm
201	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor, L.C.: 1 minute	Using Profile Projector by Comparison method	0 to 360°	6.44 minute of arc
202	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge L.C.: 0.001mm	Using Electronic Dial gauge calibration Tester by Comparison method	2 mm Transmission only	2.4 µm

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203	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bridge Cam Gauge	Using Profile Projector by Direct method	0° to 60°	50 minute of arc
204	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bridge Cam Gauge	Using Profile Projector by Direct method	Up to 100 mm	6.0 µm
205	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calibration Foils	Using Universal Length Machine by Comparison method	9 to 2000 µm	1.1 µm
206	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Analog / Dial / Digital) L.C.: 0.01 mm	Using Caliper Checker & Gauge Block by Comparison method	0 to 1000 mm	8.6 µm
207	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 1 µm)	Using Standard Thickness Foils by Comparison method	0 to 2000 µm	3.4 µm
208	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set, L.C. :1°	Using Profile Projector by Comparison method	0° to 180°	37 minute of arc

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209	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Dial Stand (Flatness)	Using Lever dial & 2D height Gauge by Comparison method	Up to 300 mm	7.0 µm
210	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Angle)	Using Profile Projector by Direct method	45°	53.3 minute of arc
211	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cross Hatch Cutter (Pitch)	Using Profile Projector by Direct method	0.3 mm to 5 mm	9.66 µm
212	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical setting master (Runout)	Using Bench centre by Comparison method	3 mm to 100 mm	9.6 µm
213	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical setting master (Diameter)	Using Length Measuring Machine by Comparison method	3 mm to 100 mm	1.7µm
214	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer, L.C.: 0.001 mm	Using Depth micrometer Checker by Comparison method	0 to 300 mm	4.8 µm

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215	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Vernier (Analog / Dial / Digital), L.C.: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 600 mm	15.2 µm
216	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge- Plunger type (Analog / Digital), L.C.: 0.001 mm	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 25 mm	2.6 µm
217	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge- Plunger type (Analog /Digital), L.C.: 0.001 mm	Using ULMM by Comparison method	0 to 50 mm	2.0 µm
218	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge- Plunger type (Analog /Digital), L.C.:0.01mm	Using ULMM by Comparison method	0 to 100 mm	8.6 µm
219	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial thickness Gauge (Length), L.C.: 0.001 mm	Using Slip Gauge by Comparison method	0 to 10 mm	1.54 µm
220	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Micrometer L.C.: 0.0001 mm	Using Gauge Block Set by by Comparison method	0 to 25 mm	0.9 µm

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221	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital Plunger Dial Gauge L.C.: 0.0001 mm	Using ULMM by Comparison method	0 to 25 mm	1.5 µm
222	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation gauge	Using Digital Caliper by Comparison Method	6.3 mm to 81 mm	26.60 µm
223	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel (Equality of Pairs)	Using Lever Dial Gauge, 2D Height Gauge, Surface Plate by Comparison method	Up to 200 mm	10.2 um
224	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel (Parallelism)	Using Lever Dial Gauge, 2D Height Gauge, Granite Surface Plate by Comparison method	Up to 200 mm	10.2 um
225	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel (Thickness)	Using Lever Dial Gauge, 2D Height Gauge, Granite Surface Plate by Comparison method	Up to 200 mm	8 um
226	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel (Width)	Using Lever Dial Gauge, 2D Height Gauge, Surface Plate by Comparison method	Up to 200 mm	10.1 um

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227	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square (Parallelism)	Using Lever dial gauge, 2D height gauge, Surface plate by Comparison method	350 * 250 mm	11.9 um
228	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square (Squareness)	Using Lever Dial Gauge, 2D Height Gauge, Granite Square, Granite Surface Plate by Comparison method	350 * 250 mm	9.88 um
229	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Square (Straightness)	Using Lever dial gauge, 2D height gauge, Surface plate by Comparison method	350 * 250 mm	11.9 um
230	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog / Digital / Flange / Point / Pitch) L.C.: 0.001 mm	Using Gauge Block Set by Comparison method	0 to 300 mm	3 µm
231	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog) L.C.: 0.01 mm	Using Gauge Block Set by Comparison method	600 mm to 1000 mm	8 µm
232	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer,(Analog / Digital) L.C.: 0.001 mm	Using Gauge Block Set by Comparison method	300 mm to 600 mm	6.5 µm

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233	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler gauge	Using ULMM by Comparison method	Up to 1 mm	1.47 µm
234	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Pro?le Projector by Comparison method	4.89 mm to 33.9 mm	7.0 µm
235	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge	Using Slip Gauge Set & Digital Comparator by Comparison method	Up to 100 mm	3 µm
236	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Groove Dial / Leg Caliper (OD & ID) Gauge, L.C.: 0.01 mm	Using Gauge Block Set by Comparison method	Up to 150 mm	7.0 µm
237	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge	Using Digital Comparator by Comparison method	0 to 100 µm	5.0 µm
238	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial / Digital & Analog) L.C.: 0.01 mm	Using Gauge Block & Surface Table by Comparison method	0 to 600 mm	10.0 µm

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239	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial / Digital & Analog) L.C.: 0.01 mm	Using Gauge Block , Length bar & Surface Table by Comparison method	0 to 1000 mm	13.5 µm
240	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Impact Test Specimen (Length)	Using Profile Projector by Direct method	0 to 75 mm	6.0 µm
241	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Impact Test Specimen (Radius)	Using Profile Projector by Direct method / Comparison method	0 to 1 mm	6.0 µm
242	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Impact Test Specimen V & U Notch (Angular)	Using Profile Projector by Direct method / Comparison method	0° to 45°	50 minute of arc
243	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer / Digital Protractor L.C: 0.05°	Using Angle Gauge blocks by Comparison method	0° to 90°	5 minute of arc
244	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Gauge-(Plain Work Piece) (Angle)	Using Profile Projector by Comparison method	0° to 180°	6 minute of arc

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245	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Gauges (Plain Work Piece) (Length)	Using Profile Projector by Comparison method	45 µm to 200 mm	6.0 µm
246	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Industrial Gauges- (Plain Work Piece) (Diameter)	Using Profile Projector / Universal Length Measuring Machine by Comparison method	0.1 mm to 20 mm	6.0 µm
247	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer / Stick Micrometer (Including Extension Rod) L.C.: 0.01 mm	Using Gauge Block Set & Gauge Block Accessories by Comparison method	50 mm to 1000 mm	10.5 µm
248	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Laser Distance meter L.C: 0.10 mm	Using Slip Gauge Block by Comparison method	0 to 1000 mm	350 µm
249	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.001 mm)	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 0.14 mm	2.6 µm
250	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.002 mm)	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 0.2 mm	3.1 µm

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251	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 0.01 mm)	Using Electronic Dial gauge calibration Tester by Comparison method	0 to 1 mm	5.3 µm
252	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins (Grade 1 & 2)	Using Universal Length Machine by Comparison method	0.1 mm to 20 mm	2.0 µm
253	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape / Pi Tape, L.C.: 0.5 mm	Using Tape & Scale Calibration Machine by Comparison method	0 to 50000 mm	275x(SQRT L) µm where L in m
254	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head, L.C.: 0.001 mm	Using Universal Length Machine by Comparison method	Up to 25 mm	1.3 µm
255	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mould / Cube Mould/ Rectangle Mould/ Cylindrical Mould (Length, Width, height)	Using Digital Caliper / Profile projector by Comparison method	Up to 300 mm x 300 mm	15.30 µm
256	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Penetrometer (L.C: 0.1 mm)	Using Slip Gauge Set by Comparison method	0 to 40 mm	0.07 mm

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257	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.1 mm)	Using Gauge Block Set by Comparison method	0 to 100 mm	60 µm
258	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges	Using Universal Length Measuring Machine by Comparison method	1 mm to 300 mm	2.8 µm
259	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauges	Using Universal Length Measuring Machine by Comparison method	3 mm to 300 mm	2.8 µm
260	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using ULMM by Comparison method	3 mm to 10 mm	1 um
261	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauges / Dial Snap Gauges	Using ULMM by Comparison method	10 mm to 300 mm	2.5 µm
262	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauges	Using Profile Projector by Comparison method	0.5 mm to 25.0 mm	9.54 µm

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263	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Setting Rods & Extensions Rods	Using Gauge Block Set by Comparison method	Up to 975 mm	10.0 µm
264	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine bar / sine center / sine table (Centre Distance between Rollers)	Using Gauge Blocks, Angle Gauge blocks and Lever Dial gauge by Comparison method	0 to 200 mm	7.0 µm
265	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine bar / sine center / sine table (Parallelism)	Using Gauge Blocks, Angle Gauge blocks and Lever Dial gauge by Comparison method	0 to 200 mm	7.0 µm
266	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine bar / sine centre / sine table (Angle measurement)	Using Gauge Blocks, Angle Gauge blocks and Lever Dial gauge by Comparison method	0° to 45°	7.0 s of arc
267	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone (Diameter)	Using Digital Caliper by direct method	0 to 150 mm	13 um
268	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slump Cone (Height)	Using 2D height gauge by comparison method	0 to 300 mm	6.9 um

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269	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sphere (Diameter measurement)	Using Length Measuring Machine by Direct method	0 to 50 mm	0.72 µm
270	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level / Frame Level, L.C.: 10 µm/m	Using Electronic Level by Comparison method	±0.12 mm/m	15.0 µm/m
271	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Stage Micrometer L.C: 0.01 mm	Using Profile Projector by Direct method	Up to 7 mm	6 µm
272	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Steel scale, L.C.: 0.5 mm	Using Tape & Scale Calibration Machine by Comparison method	0 to 1000 mm	292 µm
273	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism of working face)	Using 2D Height Gauge and lever Dial Gauge by Comparison method	0 to 1000 mm	13.5 µm
274	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness of working face)	Using 2D Height Gauge and lever Dial Gauge by Comparison method	0 to 1000 mm	13.5 µm

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275	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite / Cast Iron Surface Plate)	Using Electronic Level by Comparison method	3000 mm to X 2000 mm	2 x SQRT (L+W/150) µm, where L and W in mm
276	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape Scale Calibrator L.C.: 0.001 mm	Using Slip Gauge Set and Long Slip Gauges by Comparison method	0 to 1000 mm	6.1 µm
277	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale L.C.: 0.1 mm	Using Profile Projector by Comparison method	1 mm to 30 mm	30.4 µm
278	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Diameter)	Using Universal Length Measuring Machine by Comparison method	3 mm to 100 mm	3.0 µm
279	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Diameter)	Using Universal Length Measuring Machine by Comparison method	3 mm to 100 mm	4.8 µm
280	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates (Angular)	Using Profile Projector by Direct method	Up to 180°	50 minute of arc

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281	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Templates (Linear)	Using Profile Projector by Direct method	up to 100 mm	6 µm
282	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Diameter)	Using Universal Length Measuring Machine by Comparison method	0 to 300 mm	2.4 µm
283	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Total Runout)	Using Lever type dial gauge, Bench center by Comparison method	0 to 300 mm	7.06 µm
284	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Mandrel (Straightness)	Using Lever type dial gauge, Bench center by Comparison method	0 to 300 mm	7.06 µm
285	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Comparison method	0.032 mm to 1 mm	2.72 µm
286	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Comparison method	1 mm to 75 mm	5.04 µm

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287	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Vernier Caliper& Profile Projector by Comparison method	75 mm to 100 mm	16.0 µm
288	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Length Measuring Machine by Comparison method	0.17 mm to 6.35 mm	0.56 µm
289	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch Angle)	Using Profile Projector by Comparison method	55° & 60°	6.6 minute of arc
290	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch Length)	Using Profile Projector by Comparison method	0.3 mm to 6.0 mm	9.52 µm
291	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread plug Gauge (Effective Diameter)	Using Universal Length Measuring Machine by Comparison method	1 mm to 300 mm	3.2 µm
292	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	Using Universal Length Measuring Machine by Comparison method	3 mm to 300 mm	3.0 µm

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293	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge L.C: 0.01 mm	Using Gauge Block Set by Comparison method	0 to 200 mm	25.8 µm
294	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge	Using Profile Projector by Comparison method	0 to 25 mm	10.1 µm
295	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld gauge	Using Profile Projector by Comparison method	0° to 90°	3 minute of arc
296	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet / Dry Film Applicator	Using Profile Projector by Comparison method	0 to 600 mm	8.68 µm
297	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film Thickness Gauge	Using Profile Projector by Direct method	0.025 mm to 5 mm	9.4 µm
298	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Comparison method	0.025 mm to 12.7 mm	9.56 µm

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299	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (Linearity), L.C : 0.0001 mm	Using Gauge Block& Surface Table by comparison method	0 to 1000 mm	5.32 um
300	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (Squareness), L.C : 0.0001 mm	Using Granite Square & Surface Table by comparison method	0 to 1000 mm	13.0 um
301	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Gauge Block Set & Height Measuring System by Comparison method	0 to 1000 mm	11.7 µm
302	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Depth Micrometer Checker	Using Gauge Block Set by Comparison method	up to 300 mm	6.42 µm
303	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester, L.C: 0.1 µm	Using Universal Length Measuring Machine and Slip gauge by Comparison method	Up to 25 mm	0.90 µm
304	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Level (L.C.: 0.001 mm/m)	Using Electronic level & Tilting table by Comparison method	up to 2 mm/m	6 µm
305	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe / LVDT Probe, L.C.: 0.0001 mm	Using Slip Gauge by Comparison method	0 to 100 mm	1.8 um
306	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set (Grade 0,1&2)	Using Gauge Block Grade 'k' by Comparison method	0.5 mm to 25 mm	0.13 µm

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307	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set (Grade 0,1&2)	Using Gauge Block Grade 'k' by Comparison method	25 mm to 50 mm	0.12 µm
308	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set (Grade 0,1&2)	Using Gauge Block Grade 'k' by Comparison method	50 mm to 75 mm	0.14 µm
309	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Set (Grade 0,1&2)	Using Gauge Block Grade 'k' by Comparison method	75 mm to 100 mm	0.14 µm
310	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height master/ Raiser Block	Using Gauge Block Set by Comparison method	up to 620 mm	7.56 µm
311	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bars	Using Length Measuring Machine and Slip Gauge Block by comparison method	100 mm to 300 mm	3.28 µm
312	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope (Magnification)	Using Gauge Block Set & Glass Scale by Comparison method	10x to 100x	0.6 %
313	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope (Linear)	Using Gauge Block Set & Glass Scale by Comparison method	up to 200 mm	4.6 µm
314	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Slip Gauge& Digital Caliper by Comparison method	10x to 100x	0.6 %

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315	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C: 0.1µm	Using Gauge Block Set by Comparison method	Up to 100 mm	0.63 µm
316	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VMS/ Profile Projector (Angular)	Using Angle Gauge Block by Comparison method	up to 360 °	7 min of arc
317	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VMS/ Profile Projector (Linearity), L.C.: 0.0001 mm	Using Gauge block Set by Comparison method	up to 300 mm	4.6 µm
318	MECHANICAL-PRESSURE INDICATING DEVICES	(Pneumatic) Pressure Digital/Dial, Analog Pressure, Compound Gauge. Pressure, Compound Calibrator, Indicator, Controller, Recorder, Transducer. Pressure, Compound Transmitter, Switch with Indicator	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Pressure, Compound Sensors / Transducers by comparison method as per DKD-R6-1	0 to 2 bar	0.0007 bar
319	MECHANICAL-PRESSURE INDICATING DEVICES	Barometric, Absolute Pressure, Analog,Digital Absolute Pressure Gauge, Barometer, Barometric, Absolute Pressure Calibrator,Indicator, Controller, Recorder,Transducer ,Transmitter,Switch with Indicator.	Using Digital Precision Barometric Pressure indicator & 6½ Digit Digital Multimeter using for Barometric Pressure Sensors / Transducers by comparison method as per DKD-R6-1	150 mbar (abs) to 1050 mb	0.50 mbar (abs)

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320	MECHANICAL-PRESSURE INDICATING DEVICES	Digital,Analog Vacuum, Compound, Pressure Gauge. Vacuum,Compound, Pressure Calibrator,Indicator, Controller, Recorder,Transducer .Vacuum,Compound, Pressure Transmitter,Switch with Indicator.	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Vacuum, Compound, Pressure Sensors / Transducers by comparison method as per DKD-R6-1	(-) 0.87 bar to 0	0.00083 bar
321	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Differential Pressure, Magnehelic Gauge, Manometer. Differential Pressure Calibrator,Indicator, Controller,Recorder, Transducer. Differential Pressure Transmitter, Switch with indicator.	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Differential Pressure Sensors and Transducers by comparison method as per DKD-R6-1	500 mbar to 2000 mbar	0.14 mbar
322	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Differential Pressure,Magnehelic Gauge,Manometer.Differential Pressure Calibrator, Indicator, Controller,Recorder, Transducer. Differential Pressure Transmitter,Switch with indicator	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Differential Pressure Sensors / Transducers by comparison method as per DKD-R6-1	70 mbar to 500 mbar	0.055 mbar

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323	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Pressure Gauges/ Hydraulic Pressure gauge.Pressure Calibrator, Indicator, Controller,Recorder, Transducer. Pressure Transmitter, Switch with Indicator.	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Pressure Sensors / Transducers by comparison method as per DKD-R6-1	200 bar to 1000 bar	0.059 bar
324	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Digital & Analog Pressure Gauge, Compound Gauge, Pressure, Compound Calibrator, Indicator, Controller, Recorder, Transducer, Transmitter, Switch with Indicator.	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Pressure, Compound Sensors / Transducers by comparison method as per DKD-R6-1	20 bar to 70 bar	0.0047 bar
325	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Digital & Analog Pressure Gauge, Compound Gauge, Pressure, Compound Calibrator, Indicator, Controller, Recorder, Transducer, Transmitter, Switch with Indicator.	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Pressure Sensors / Transducers by comparison method as per DKD-R6-1	70 bar to 200 bar	0.024 bar

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326	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic PressureDigital/Analog Pressure, Compound Gauge. Pressure, Compound Calibrator, Indicator, Controller, Recorder,Transducer. Pressure, Compound Transmitter, Switch with Indicator	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Pressure, Compound Sensors / Transducers by comparison method as per DKD-R6-1	2 bar to 20 bar	0.0015 bar
327	MECHANICAL-VOLUME	Glass Pipettes (Graduated / Non graduated) Pipette, Burette	Using Semi Micro Balance (Readability: 0.01mg) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	50 ml	0.1 µl
328	MECHANICAL-VOLUME	Glass Pipettes (Graduated / Non graduated) Pipette, Burette	Using Semi Micro Balance (Readability: 0.01mg) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	1 ml to 10 ml	0.08 µl

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329	MECHANICAL-VOLUME	Glass Pipettes (Graduated / Non graduated) Pipette, Burette	Using Semi Micro Balance (Readability: 0.01mg) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	100 ml	0.14 µl
330	MECHANICAL-VOLUME	Glass Pipettes (Graduated / Non graduated) Pipette, Burette	Using Semi Micro Balance (Readability: 0.01mg) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	25 ml	0.1 µl
331	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Semi Micro Balance (Readability: 0.1 mg) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	20 ml	0.1 µl
332	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Semi Micro Balance (Readability: 0.1vmg) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	5 ml	0.08 µl

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333	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Semi Micro Balance (Readability: 0.1 mg) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	10 ml	0.11 µl
334	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Precision Balance (Readability: 0.1 mg) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	100 ml	0.22 µl
335	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Precision Balance (Readability: 0.01 g) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	1000 ml	0.98 µl
336	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Precision Balance (Readability: 0.01g) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	10000 ml	48.9 µl

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337	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Precision Balance (Readability: 0.001g) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	200 ml	0.32 µl
338	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Precision Balance (Readability: 0.01g) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	2000 ml	5.3 µl
339	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Semi Micro Balance (Readability: 0.1mg) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	50 ml	0.13 µl
340	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Precision Balance (Readability: 0.001g) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	500 ml	0.4 µl

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341	MECHANICAL-VOLUME	Measuring Cylinder / Conical Flask	Using Precision Balance (Readability: 0.01g) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	5000 ml	8.7 µl
342	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Ultra Micro Balance (Readability: 0.0001mg) & Distilled water by Gravimetric method as per ISO 8655:2022 (part 6)	1 µl	0.01µl
343	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Precision Micro Balance (Readability: 0.0001mg & 0.001mg) & Distilled water by Gravimetric method as per ISO 8655:2022 (part 6)	10 µl	0.015µl
344	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Semi Micro Balance (Readability: 0.001 mg) & Distilled water by Gravimetric method as per ISO 8655:2022 (part 6)	100 µl	0.08 µl

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345	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Semi Micro Balance (Readability: 0.001mg, 0.01mg & 0.1mg) & Distilled water by Gravimetric method as per ISO 8655:2022 (part 6)	1000 µl	0.1 µl
346	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Semi Micro Balance (Readability: 0.001mg, 0.01mg & 0.1mg) & Distilled water by Gravimetric method as per ISO 8655:2022 (part 6)	10000 µl	0.3 µl
347	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Precision Micro Balance (Readability: 0.0001mg & 0.001mg) & Distilled water by Gravimetric method as per ISO 8655:2022 (part 6)	2 µl	0.01 µl
348	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Semi Micro Balance (Readability: 0.001mg, 0.01mg & 0.1mg) & Distilled water by Gravimetric method as per ISO 8655:2022 (part 6)	20 µl	0.04µl

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349	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Semi Micro Balance (Readability: 0.001mg, 0.01mg & 0.1mg) & Distilled water by Gravimetric method as per ISO 8655:2022 (part 6)	200 µl	0.06 µl
350	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Semi Micro Balance (Readability: 0.001mg, 0.01mg & 0.1mg) & Distilled water by Gravimetric method as per ISO 8655:2022 (part 6)	2000 µl	0.1 µl
351	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Ultra Micro Balance (Readability: 0.0001mg) & Distilled water by Gravimetric method as per ISO 8655:2022 (part 6)	5 µl	0.01µl
352	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Semi Micro Balance (Readability: 0.001 mg) & Distilled water by Gravimetric method as per ISO 8655:2022 (part 6)	50 µl	0.044 µl

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353	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Semi Micro Balance (Readability: 0.001mg, 0.01mg & 0.1mg) & Distilled water by Gravimetric method as per ISO 8655:2022 (part 6)	500 µl	0.06 µl
354	MECHANICAL-VOLUME	Micropipette / Syringe (Industrial Purpose Only)	Using Semi Micro Balance (Readability: 0.001mg, 0.01mg & 0.1mg) & Distilled water by Gravimetric method as per ISO 8655:2022 (part 6)	5000 µl	0.1 µl
355	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Precision Micro Balance (Readability: 0.001g) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	1000 ml	0.5 µl
356	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Precision Balance (Readability: 0.01mg & 0.001g) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	200 ml	0.3 µl

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357	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Semi Micro Balance (Readability: 0.01mg) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	10 ml	0.08 µl
358	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Semi Micro Balance (Readability: 0.01mg) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	100 ml	0.3 µl
359	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Semi Micro Balance (Readability: 0.01mg) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	20 ml	0.1 µl
360	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Precision Balance (Readability: 0.01g) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	2000 ml	0.5 µl

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361	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Semi Micro Balance (Readability: 0.01 mg) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	5 ml	0.032 µl
362	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Semi Micro Balance (Readability: 0.01mg) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	50 ml	0.1 µl
363	MECHANICAL-VOLUME	Volumetric (Flask / Beaker)	Using Precision Balance (Readability: 0.001 g) & Distilled water by Gravimetric method as per ISO 4787:2021 & ISO/TR 20461	500 ml	0.36 µl
364	MECHANICAL-WEIGHING SCALE AND BALANCE	Spring Balance	Using Stainless Steel Newton Weights by Comparison method	50 N to 1000 N	1.4N
365	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.0001mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	1 mg to 2.1 g	0.003 mg
366	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.001 g, (Class-III)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	1 mg to 50 kg	0.009 g

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367	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.001mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	1 mg to 5.1 g	0.004 mg
368	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.01mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	1 mg to 210 g	0.03 mg
369	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.01mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	1 mg to 50 g	0.010 mg
370	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.1g, (Class-III)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	100 mg to 50 Kg	0.2 g
371	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.1mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	1 mg to 200 g	0.10 mg
372	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 1 g, (Class-III)	Using Weights of Accuracy Class E1, E2, F1 as per OIML R76:2006	1 g to 100 kg	1 g
373	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 1 mg, (Class-II)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	1 mg to 1 kg	0.002 g
374	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 10 g, (Class-IIII)	Using Weights of Accuracy Class E1, E2, F1 as per OIML R-76:2006	10 g to 100 kg	10 g
375	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 100 mg, (Class-III)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	0.1 g to 20 kg	0.10 g

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376	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 100g, (Class-IIII)	Using Weights of Accuracy Class F1 as per OIML R-76:2006	2 kg to 1000 kg	100 g
377	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 100g, (Class-IIII)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	2 kg to 2000 kg	100 g
378	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 100mg, (Class-III)	Using Weights of Accuracy Class E1, F1 as per OIML R-76:2006	0.1 g to 35 kg	0.100 g
379	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 100mg, (Class-III)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	0.1 mg to 10 kg	0.100 g
380	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 50 g, (Class-IIII)	Using Weights of Accuracy Class E1, E2, F1 as per OIML R-76:2006	2 kg to 500 kg	50 g
381	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING SCALE & BALANCE, Readability: 0.001g, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	10 mg to 20 kg	0.004 g
382	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING SCALE & BALANCE, Readability: 0.01 mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	0.1 mg to 2 kg	0.011 mg
383	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING SCALE & BALANCE, Readability: 0.1 mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	500 g to 5 kg	0.7 mg
384	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING SCALE & BALANCE, Readability: 1 mg, (Class-II)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	0.1 mg to 5 kg	0.011 g

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385	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.0000001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	1 g	0.002 mg
386	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability:0.0001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	1 kg	0.15 mg
387	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.0000001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	1 mg	0.0008 mg

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388	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.000001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	10 g	0.004 mg
389	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	10 kg	1.64 mg
390	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.0000001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	10 mg	0.0009 mg

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391	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.00001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	100 g	0.016 mg
392	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.0000001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	100 mg	0.001 mg
393	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.0000001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	2 g	0.002 mg

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394	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.0001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	2 kg	0.31 mg
395	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.0000001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	2 mg	0.0009 mg
396	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.000001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	20 g	0.006 mg
397	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	20 kg	3.3 mg

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398	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.0000001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	20 mg	0.0009 mg
399	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.00001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	200 g	0.028 mg
400	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability : 0.0000001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	200 mg	0.0011 mg

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401	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.000001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	5 g	0.0032 mg
402	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.0001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	5 kg	0.61 mg
403	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.0000001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	5 mg	0.0009 mg

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404	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.000001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	50 g	0.008 mg
405	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.0000001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	50 mg	0.0008 mg
406	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.0001 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	500 g	0.088 mg

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407	MECHANICAL-WEIGHTS	Accuracy class E1 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.0000001g) by Substitutional method & ABBA Cycles as per OIML R 111-1	500 mg	0.0014 mg
408	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using Weights of Accuracy Class E1 and Precision Balance (Readability: 0.1 g) by Substitutional method & ABBA Cycles as per OIML R 111-1	50 kg	100 mg
409	THERMAL-SPECIFIC HEAT & HUMIDITY	Dew Point Temperature Sensor with Indicator, Dew Point meter (inbuilt Sensor)	Using Temperature & Humidity Indicator with Sensor, Humidity Chamber, Digital Multimeter (read out) by Comparison Method	(-) 20 °C to 50 °C 10 % rh to 95 % rh	0.97 °C

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410	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity (Digital and Analog) Thermo hygrometers / Temperature and Humidity Meters with sensor, Temperature and Humidity Transmitters with Multimeter/Indicator/ Data Logger/ Indicators, Controllers with Sensor	Using Hygropalm with sensor, Humidity Generator by Comparison method	5 % rh to 95 % rh @ 25 °C	0.92 % rh
411	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity (Digital and Analog) Thermo hygrometers / Temperature and Humidity Meters / Temperature and Humidity Transmitters with Multimeter/Indicator, Data Loggers, Indicators, Controllers with Sensor	Using temperature & humidity meter with probe, Temperature Generator by Comparison method	5 °C to 60 °C @ 50 %rh	0.239 °C
412	THERMAL-TEMPERATURE	Indicator of High Temp. Dry Bath / Block, Furnace, Chamber, Oven (Single Position)	Using Standard S Type Thermocouple with Indicator by Comparison Method	600 °C to 1200 °C	1.126 °C

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413	THERMAL-TEMPERATURE	Indicator with sensor of Liquid/Oil Bath, Low & High Temp. Dry Bath/Block, Freezer, Oven, Incubator [non Medical Purpose only], Autoclave [non Medical Purpose only], Centrifuge, Dry Cabinet, Environmental Chamber (Single Position)	Using Standard SPRT with Indicator by Comparison Method	(-) 95 °C to 140 °C	0.073 °C
414	THERMAL-TEMPERATURE	Indicator with sensor of Black body Source	Using Standard Non-Contact IR Pyrometer @ Emissivity 0.95 by Comparison Method	50 °C to 500 °C	3.79 °C
415	THERMAL-TEMPERATURE	Indicator with sensor of Black body Source	Using Standard Non-Contact IR Pyrometer @ Emissivity 0.95 by Comparison Method	500 °C to 1200 °C	5.27 °C
416	THERMAL-TEMPERATURE	Indicator with sensor of Block body Source (Single Position)	Using Standard Non-Contact IR Pyrometer (Emissivity 0.95) by Comparison Method	(-) 15 °C to 50 °C	2.79 °C
417	THERMAL-TEMPERATURE	Indicator with sensor of High Temp. Dry Bath / Block, Furnace (Single Position)	Using Standard R Type Thermocouple with Indicator by Comparison Method	1200 °C to 1500 °C	1.86 °C

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418	THERMAL-TEMPERATURE	Indicator with sensor of Low and High Temp. Dry Bath / Block, Furnace, Chambers, Ovens. (Single Position)	Using Standard SPRT with Indicator by Comparison Method	140 °C to 600 °C	0.41 °C
419	THERMAL-TEMPERATURE	Liquid in Glass Thermometers, Dial Thermometers, Temperature Gauges	Using Standard SPRT With Indicator and Ethanol Oil Bath by Comparison Method	(-) 80 °C to 25 °C	0.370 °C
420	THERMAL-TEMPERATURE	Liquid in Glass Thermometers, Dial Thermometers, Temperature Gauges	Using Standard SPRT With Indicator and Silicon Oil Bath by Comparison Method	25 °C to 250 °C	0.370 °C
421	THERMAL-TEMPERATURE	Non - Contact Thermometer, Pyrometer, Infrared Thermometer, Thermal Imager @ Emissivity 0.95	Using Standard Non-Contact IR Pyrometer @ Emissivity 0.95 and Indicator with sensor of Black Body Source by Comparison Method	50 °C to 500 °C	3.76 °C
422	THERMAL-TEMPERATURE	Non - Contact Thermometer, Pyrometer, Infrared Thermometer, Thermal Imager @ Emissivity 0.95	Using Standard Non-Contact IR Pyrometer @ Emissivity 0.95 and Indicator with sensor of Black Body Source by Comparison Method	500 °C to 1200 °C	5.13 °C

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423	THERMAL-TEMPERATURE	Non - Contact Thermometer, Pyrometer, Infrared Thermometer, Thermal Imager(Temperature only) (Non-Medical Purpose only)	Using Standard Non-Contact IR Pyrometer @ Emissivity 0.95 and Indicator with sensor of Black Body Source by Comparison Method	(-) 15 °C to 50 °C	2.80 °C
424	THERMAL-TEMPERATURE	RTD's, PRT's, Thermocouples With / Without Indicators, Data Loggers, Paperless Recorders, Digital/Analog Thermometers, Temperature Gauges, and Transmitters with / Without Indicators	Using Standard SPRT with Indicator, Dry Bath and Digital Multimeter by Comparison Method	(-) 95 °C to 140 °C	0.04 °C
425	THERMAL-TEMPERATURE	RTD's, PRT's, Thermocouples With / Without Indicators, Data Loggers, Paperless Recorders, Transmitters Digital/Analog Thermometers, Temperature Gauges, and Transmitters with / Without Indicators	Using Standard SPRT with Indicator, Nitrogen Bath and Digital Multimeter by Comparison Method	(-) 196 °C	0.110 °C

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426	THERMAL-TEMPERATURE	RTD's, PRT's, Thermocouples With / Without Indicators, Data Loggers, Paperless Recorders, Transmitters Digital/Analog Thermometers, Temperature Gauges, and Transmitters with / Without Indicators	Using Standard SPRT with Indicator, Dry Bath and Digital Multimeter by Comparison Method	140 °C to 600 °C	0.096 °C
427	THERMAL-TEMPERATURE	Thermocouples With / Without Indicators, Data Loggers, Paperless Recorders, Transmitters With / Without Indicators	Using Standard R Type Thermocouple with Indicator, Dry Bath and Digital Multimeter by Comparison Method	1200 °C to 1500 °C	1.88 °C
428	THERMAL-TEMPERATURE	Thermocouples With / Without Indicators, Data Loggers, Paperless Recorders, Transmitters, with / Without Indicators	Using Standard S Type Thermocouple with Indicator, Dry Bath and Digital Multimeter by Comparison Method	600 °C to 1200 °C	1.109 °C

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	1 A to 20 A	0.310 % to 0.104 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	100 µA to 100 mA	0.053 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (20 Hz to 10 kHz)	Using 8½ Digital Multimeter by Direct method	100 mA to 1 A	0.053 % to 0.105 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	1 A to 20 A	4.52 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	20 A to 700 A	4.52 % to 1.82 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (50 Hz)	Using Shunt with Digital Multimeter by Direct method	700 A to 1000 A	1.82 % to 0.951%

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage Tester @ 50 Hz	Using HV Probe with Digital Multimeter by Direct/Comparison method	1 kV to 25 kV	2.05 % to 3.91 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage Tester @ 50 Hz	Using HV Probe with Digital Multimeter by Direct/Comparison method	25 kV to 90 kV AC	7.76 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power, 1 Phase, 50 Hz @ 0.2 Lag 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	2.4 W to 960 W	0.41%
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	1 mV to 100 mV	0.469 % to 0.014 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	1 V to 100 V	0.081 % to 0.073 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 50 kHz)	Using 8½ Digital Multimeter by Direct method	100 mV to 1 V	0.014 % to 0.081 %

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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (45 Hz to 1 kHz)	Using 8½ Digital Multimeter by Direct method	100 V to 1000 V	0.073 % to 0.018 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 kHz to 100 kHz)	Using 8½ Digital Multimeter by Direct method	1 V to 20 V	0.57 % to 0.462 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	1 µF to 100 µF	0.059 % to 0.116 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	1 nF to 100 nF	0.062 % to 0.060 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance (1 kHz)	Using LCR Meter by Direct method	100 nF to 1 µF	0.049 % to 0.059 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (1 kHz)	Using LCR Meter by Direct method	10 µH to 100 mH	0.236 % to 0.065 %

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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance (1 kHz)	Using LCR Meter by Direct method	100 mH to 10 H	0.065 % to 0.073 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz, 5A, 240V	Using Portable Reference Standard by Direct Method	0.2 (Lead / Lag) PF to UPF	0.002 PF
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Power, 1 Phase, 50 Hz @ 0.5 Lag 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	6 W to 2.4 kW	0.49 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Power, 1 Phase, 50 Hz @ 0.8 Lead 120 V to 240 V, 0.1 A to 20 A	Using Digital Power Meter by Direct method	9.6 W to 3.8 kW	0.26 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Power, 1 Phase, 50 Hz @ UPF 120 V to 240 V, 0.01 A to 20 A	Using Digital Power Meter by Direct method	1.2 W to 4.8 kW	0.24 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Capacitance (1 kHz)	Using Decade Capacitance Box by Direct method	1 nF to 100 µF	1.16 %

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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Capacitance (100 Hz)	Using Multiproduct Calibrator by Direct method	1 µF to 30 µF	1.55%
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.073 % to 0.14 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	3.3 mA to 1 A	0.12 % to 0.074 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	30 µA to 330 µA	0.53 % to 0.17 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (1 kHz)	Using Multiproduct Calibrator by Direct method	330 µA to 3.3 mA	0.17 % to 0.12 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	3.3 mA to 3 A	0.12 % to 0.24 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (10 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	330 µA to 3.3 mA	0.28 % to 0.12 %

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32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 5 kHz)	Using Multiproduct Calibrator by Direct method	3 A to 20 A	3.50 % to 0.20 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Current source by Direct method	100 A to 1000 A	1.68 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Multiproduct Calibrator & Current Coil by Direct method	20 A to 1000 A	0.45 % to 0.37 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	1 V to 30 V	0.080 % to 0.042 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	100 mV to 1 V	0.086 % to 0.080 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 100 mV	0.12 % to 0.086 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	30 V to 300 V	0.20 % to 0.026 %

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39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 1 kHz)	Using Multiproduct Calibrator by Direct method	300 V to 1000 V	0.026 % to 0.038 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	1 mV to 3 mV	0.696 % to 0.254 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct method	3 mV to 30 mV	0.254 % to 0.044 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (450 kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 3 V	1.119 % to 0.294 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 kHz to 90 kHz)	Using Multiproduct Calibrator by Direct method	30 mV to 30 V	0.280 % to 0.113 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (90 kHz to 100 kHz)	Using Multiproduct Calibrator by Direct method	30 V to 100 V	0.291 % to 0.024 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Multiproduct Calibrator by Direct method	220 pF to 1 µF	4.55 % to 1.14 %

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46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance (1 kHz)	Using Decade Inductance Box by Direct method	10 µH to 10 H	2.35 % to 1.16 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 0.01 A to 20 A, 120 V to 240 V	Using Multiproduct Calibrator by Direct method	0.2 Lag to UPF	0.0003 PF
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 230 V, 5 A	Using master Standard Calibrator by Direct Method	0.2 Lead to UPF	0.0003PF
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single phase AC Power 0.8 Lead, 50 Hz 120 V to 240 V, 0.1 A to 20 A	Using Multiproduct Calibrator by Direct method	9.6 W to 3.8 kW	0.20 %
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Power @ 50 Hz, 0.2 Lag, 120 V to 240 V, 0.01 A to 20 A	Using Multiproduct Calibrator by Direct method	2.4 W to 960 W	0.60 %
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single phase AC Power UPF @ 50 Hz, 0.01 A to 20 A, 120 V to 240 V	Using Multiproduct Calibrator by Direct method	1.2 W to 4.8 kW	0.12 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Power @ 50 Hz, 0.2 Lag, 120 V to 240 V, 0.01 A to 20 A	Using Multiproduct Calibrator by Direct method	6 W to 2.4 kW	0.39 %

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53	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	1 A to 20 A	0.021 % to 0.052 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with Digital Multimeter by Direct method	1 A to 20 A	1.05 % to 1.15 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	1 mA to 100 mA	0.002 % to 0.009 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	10 µA to 100 µA	0.001%
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 µA to 1 mA	0.001 % to 0.002 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digital Multimeter by Direct method	100 mA to 1 A	0.009 % to 0.021 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Shunt with Digital Multimeter by Direct method	20 A to 1000 A	1.15 % to 1.20 %

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60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage Tester	Using HV Probe with Digital Multimeter by Direct method	1 kV to 20 kV	1.7 % to 3.25 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage Tester	Using HV Probe with Digital Multimeter by Direct method	20 kV to 40 kV	3.25 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage Tester	Using HV Probe with Digital Multimeter by Direct method	40 kV to 100 kV	2.45 % to 5.50 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Power, 10 V to 600 V, 1 A to 20 A	Using Digital Power Meter by Direct method	10 W to 12 kW	0.10 % to 0.74 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	1 mV to 100 mV	0.239 % to 0.0007 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	1 V to 100 V	0.0007 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	100 mV to 1 V	0.0007 % to 0.00020 %

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67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digital Multimeter by Direct method	100 V to 1000 V	0.0007 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8½ Digital Multimeter by Direct method	100 kohm to 1 Mohm	0.0008 % to 0.0014 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 2 Wire)	Using 8½ Digital Multimeter by Direct method	1 Gohm to 10 Gohm	0.828 % to 0.127 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 2 Wire)	Using 8½ Digital Multimeter by Direct method	1 Mohm to 10 Mohm	0.0010 % to 0.0031 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 2 Wire)	Using 8½ Digital Multimeter and by Direct method	10 kohm to 100 kohm	0.0007 % to 0.0009 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 2 Wire)	Using 8½ Digital Multimeter by Direct method	10 Mohm to 100 Mohm	0.0031 % to 0.017 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 2 Wire)	Using 8½ Digital Multimeter by Direct method	100 Mohm to 1 Gohm	0.0080 % to 0.602%

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74	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 4 Wire)	Using Micro Ohm meter by Direct method	1 mohm to 150mohm	0.206 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (using 4 wire)	Using Master LCR meter by Direct method	1 ohm to 1 k ohm	0.061 % to 0.207 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 4 Wire)	Using 8½ Digital Multimeter by Direct method	1 ohm to 100 ohm	0.056 % to 0.058 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 4 Wire)	Using 8½ Digital Multimeter and by Direct method	10 ohm to 100 ohm	0.006 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (Using 4 Wire)	Using 8½ Digital Multimeter by Direct method	100 ohm to 10 kohm	0.0010 % to 0.0007 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (using 4 wire)	Using Micro Ohm meter by Direct method	150 mohm to 1 ohm	0.206 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	1 A to 10 A	0.028 % to 0.063 %

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81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	1 mA to 100 mA	0.016 % to 0.011 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 µA to 100 µA	0.25 % to 0.04 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	10 A to 20 A	0.063 % to 0.12 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Current source by Direct method	10 A to 200 A	0.5%
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	100 µA to 1 mA	0.023 % to 0.017 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator by Direct method	100 mA to 1 A	0.011 % to 0.028 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator & Current Coil by Direct method	20 A to 1000 A	0.062 % to 0.32 %

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88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1 V to 1000 V, 10 mA to 20 A	Using Multiproduct Calibrator by Direct method	1 kW to 19.9 kW	0.45 % to 0.86 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power, 1 V to 1000 V, 10 mA to 20 A	Using Multiproduct Calibrator by Direct method	10 W to 1 kW	0.081 % to 0.45 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 mV to 10 mV	0.241 % to 0.025 %
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	1 V to 10 V	0.0015 % to 0.0017 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 mV to 100 mV	0.023 % to 0.004 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	10 V to 1000 V	0.0016 % to 0.0024 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator by Direct method	100 mV to 1 V	0.0039 % to 0.0016 %

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95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 2 Wire)	Using Multiproduct Calibrator by Direct method	1 Mohm to 10 Mohm	0.0041 % to 0.016 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 2 Wire)	Using high stability Decade Mega Ohm Box by Direct method	1 Mohm to 100 Gohm	4.20 % to 1.2%
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 2 Wire)	Using Multiproduct Calibrator by Direct method	10 kohm to 100 kohm	0.0035 % to 0.0037 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 2 Wire)	Using Multiproduct Calibrator by Direct method	10 Mohm to 300 Mohm	0.014 % to 0.387 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 2 Wire)	Using high stability Decade Mega Ohm Box by Direct method	100 Gohm to 1 Tohm	1.2 % to 1.3 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 2 Wire)	Using Multiproduct Calibrator by Direct method	100 kohm to 1 Mohm	0.0037 % to 0.0041 %
101	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 2 Wire)	Using Multiproduct Calibrator by Direct method	300 Mohm to 1 Gohm	0.38 % to 1.80 %

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102	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Multiproduct Calibrator by Direct method	1 kohm to 10 kohm	0.0038 % to 0.0036 %
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Fixed Resistor Box by Direct method	1 mohm	0.59 %
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Multiproduct Calibrator by Direct method	1 ohm to 10 ohm	0.13 % to 0.016 %
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Fixed Resistor Box by Direct method	10 mohm	0.59 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Multiproduct Calibrator by Direct method	10 ohm to 100 ohm	0.015 % to 0.005 %
107	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Fixed Resistor Box by Direct method	100 mohm	0.59 %
108	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Multiproduct Calibrator by Direct method	100 ohm to 1 kohm	0.004 % to 0.0038 %

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109	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Fixed Resistor Box by Direct method	150 mohm	0.59%
110	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (Using 4 Wire)	Using Fixed Resistor Box by Direct method	5 mohm	0.59 %
111	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Harmonics (240 V , 5 A, 50 Hz)	Using Portable Reference Standard, Source by Direct & Comparison Method	1st order to 39th Order	0.6 %
112	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Phase Angle @ 50 Hz - (240 V / 5A)	Using Portable Reference Standard by Direct & Comparison Method	1 ° to 180 °	0.12 ° to 0.18 °
113	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Amplitude-Sq wave Oscilloscope @1 kHz, 1 Mohm	Using Multiproduct Calibrator by Direct method	1 mV to 55 Vp-p	0.64 % to 0.21%
114	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Bandwidth - Oscilloscope	Using Multiproduct Calibrator by Direct method	50 kHz to 1 GHz @1V	4.27% to 7.92%
115	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope @ 1 Mohm	Using Multiproduct Calibrator by Direct method	1 mV to 130 V	0.53 % to 0.14 %

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116	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Timer Marker / Oscilloscope	Using Multiproduct Calibrator by Direct method	1 ns to 5 s	0.0018 ns to 0.029 s
117	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Bandwidth	Using Synthesizer Sweeper Direct Method	10MHz to 10 GHz	1.18 dB
118	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF & Microwave Frequency	Using Universal counter, Microwave frequency Counter by Direct Method	18 Hz to 20 GHz	5.84 µHz to 166.4 Hz
119	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF & Microwave Power	Using RF Power Meter with High Accuracy Power Sensor / spectrum analyser by Direct Method	10 dBm to (-) 80 dBm (10 MHz to 18 GHz)	0.2 dB to 0.38 dB
120	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Attenuation, Insertion Loss, Return Loss, Coupling Loss, De-Coupling Loss, Isolation Loss, Voltage Division Factor	Using RF Power Meter with High Accuracy Power Sensor and Signal Generator by direct method	0 dB to 30 dB (10 MHz to 3 GHz)	1.39 dB
121	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Time Period	Using Universal frequency counter Direct Method	4.44 ns to 0.1 s	0.00006 ns to 0.6 ms

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122	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	VSWR	Using Network Analyzer by Direct Method	1.07 VSWR (10 MHz to 3 GHz)	0.038 rho
123	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Amplitude Modulation	Using Modulation Meter, Signal Generator by Direct Method	CF: 10 MHz to 1.3 GHz (Mod Rate: 1 kHz) (AM Dept: 5 % to 95 %)	2.65 %
124	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency Modulation	Using Modulation Meter, Signal Generator by Direct Method	CF: 10 MHz to 1.3 GHz (Mod Rate: 1 kHz) (FM Dev: 10 kHz to 200kHz)	2.8 %
125	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF & Microwave Frequency	Using Arbitrary Waveform Generator/Signal Generator by direct Method	10 Hz to 20 GHz	5.81 µHz to 116 Hz
126	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF & Microwave Power	Using RF Signal Generator by direct Method	10 dBm to (-) 80 dBm (10 MHz to 18 GHz)	1.18 dB to 1.75 dB
127	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Time Period	Using Arbitrary Waveform Generator by Direct Method	40 ns to 0.1 s	0.00006 ns to 0.0012 ms

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128	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD type	Using 6½ Digit Multimeter by Direct method	(-) 200 °C to 600 °C	0.19 °C
129	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'B' Type	Using Multiproduct Calibrator by Direct method	600 °C to 1800 °C	0.51 °C
130	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'C' type	Using Multiproduct Calibrator by Direct method	100 °C to 2300 °C	0.99 °C
131	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'E' type	Using Multiproduct Calibrator by Direct method	(-) 250 °C to 1000 °C	0.73 °C
132	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'J' type	Using Multiproduct Calibrator by Direct method	(-) 210 °C to 1200 °C	0.31 °C
133	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'K' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 1370 °C	0.32 °C
134	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'L' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 900 °C	0.43 °C

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135	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'N' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 1300 °C	0.32 °C
136	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'R' type	Using Multiproduct Calibrator by Direct method	100 °C to 1760 °C	0.55°C
137	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'S' type	Using Multiproduct Calibrator by Direct method	100 °C to 1760 °C	0.55 °C
138	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'T' type	Using Multiproduct Calibrator by Direct method	(-) 250 °C to 400 °C	0.73°C
139	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple 'U' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 600 °C	0.65 °C
140	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 800 °C	0.13 °C
141	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'B' type	Using Multiproduct Calibrator by Direct method	600 °C to 1800 °C	0.51 °C

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142	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'C' type	Using Multiproduct Calibrator by Direct method	100 °C to 2300 °C	0.97 °C
143	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'E' type	Using Multiproduct Calibrator by Direct method	(-) 250 °C to 1000 °C	0.58°C
144	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'J' type	Using Multiproduct Calibrator by Direct method	(-) 210 °C to 1200 °C	0.31 °C
145	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'K' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 1350 °C	0.39 °C
146	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'L' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 900 °C	0.44 °C
147	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'N' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 1300 °C	0.31 °C
148	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'R' type	Using Multiproduct Calibrator by Direct method	100 °C to 1750 °C	0.55 °C

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149	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'S' type	Using Multiproduct Calibrator by Direct method	100 °C to 1750 °C	0.54°C
150	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'T' type	Using Multiproduct Calibrator by Direct method	(-) 250 °C to 400 °C	0.73 °C
151	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple 'U' type	Using Multiproduct Calibrator by Direct method	(-) 200 °C to 600 °C	0.66 °C
152	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter by Direct method	10 Hz to 1 GHz	0.0011 % to 0.0012 %
153	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Calibrator by Comparison method	1 s to 9000 s	0.043 s to 1.08 s
154	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Timer	Using Time Interval Calibrator by Comparison method	9000 s to 86400 s	1.08 s to 10.1 s
155	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct method	1 Hz to 1 GHz	0.0003 % to 0.006 %

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156	MECHANICAL-ACCELERATION AND SPEED	Centrifuge / Centrifugal Motor / Speed (Non-Contact)	Using Tachometer by Comparison method	12 rpm to 15000 rpm	5.833 %
157	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co-axiality)	Using Test Mandrel & Lever dial gauge by Comparison method	300 mm to 500 mm	6.06 µm
158	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (parallelism)	Using Test Mandrel & Lever dial gauge by Comparison method	300 mm to 500 mm	3.0 µm
159	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Analog / Dial / Digital) L.C.: 0.01 mm	Using Gauge Block set and long gauge blocks by Comparison method	0 to 2000 mm	39.4 µm
160	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer /Displacement Device (Electronic / Mechanical) (L.C.: 1 µm or Coarser)	Using Extensometer Calibration Fixture & Digital Dial Gauge (L.C.: 0.1µm) by Comparison method	0 to 25 mm	7 µm
161	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (Analog) L.C.: 0.01 mm	Using Gauge Block Set, Length bar by Comparison method	1000 mm to 2000 mm	13,2 µm

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162	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Dial / Digital & Analog) L.C.: 0.01 mm	Using Gauge Block, length bar & Surface Table by Comparison method	0 to 1000 mm	13.5 µm
163	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite / Cast Iron Surface Plate)	Using Electronic Level by Comparison method	3000 mm to X 2000 mm	2 x SQRT (L+W/150) µm, where L and W in mm
164	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape Scale Calibrator L.C.: 0.001 mm	Using Slip Gauge Set and Long Slip Gauges by Comparison method	0 to 1000 mm	6.1 µm
165	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Verification of Displacement Measuring System and Devices used in Material Testing	Using Digital Height gauge, length measuring Instruments as per ASTM E 2309 by Comparison method	20 mm to 600 mm	916.11 µm
166	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (Linearity), L.C : 0.0001 mm	Using Gauge Block& Surface Table by comparison method	0 to 1000 mm	5.32 um
167	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	2D Height Gauge (Squareness), L.C : 0.0001 mm	Using Granite Square & Surface Table by comparison method	0 to 1000 mm	13.0 um
168	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope (Magnification)	Using Gauge Block Set & Glass Scale by Comparison method	10x to 100x	0.6 %

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169	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Microscope (Linear)	Using Gauge Block Set & Glass Scale by Comparison method	up to 200 mm	4.6 µm
170	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using Slip Gauge& Digital Caliper by Comparison method	10x to 100x	0.6 %
171	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Universal Length Measuring Machine L.C: 0.1µm	Using Gauge Block Set by Comparison method	Up to 100 mm	0.63 µm
172	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VMS/ Profile Projector (Angular)	Using Angle Gauge Block by Comparison method	up to 360 °	7 min of arc
173	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	VMS/ Profile Projector (Linearity), L.C.: 0.0001 mm	Using Gauge block Set by Comparison method	up to 300 mm	4.6 µm
174	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV10	2.5%
175	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks IS:1500 (Part 2) :2021	HBW 10/3000	1.41%
176	MECHANICAL-HARDNESS TESTING MACHINES	Brinell Hardness Testing Machine	Using Standard Hardness Blocks IS:1500 (Part 2) :2021	HBW 5/750	2.06 %
177	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV 0.1	8.01 %

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178	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV0.2	7.50%
179	MECHANICAL-HARDNESS TESTING MACHINES	Micro Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV0.5	4.11%
180	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks IS 1586 (Part2) : 2018	HRA	1.00 HRA
181	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks IS 1586 (Part2) : 2018	HRB	1.2 HRB
182	MECHANICAL-HARDNESS TESTING MACHINES	Rockwell Hardness Testing Machine	Using Standard Hardness Blocks IS 1586 (Part2) : 2018	HRC	0.85 HRC
183	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV 1	4.00 %
184	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV30	2.0%
185	MECHANICAL-HARDNESS TESTING MACHINES	Vickers Hardness Testing Machine	Using Standard Hardness Blocks IS:1501 (Part2) : 2020	HV5	2.5%

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186	MECHANICAL-PRESSURE INDICATING DEVICES	(Pneumatic) Pressure Digital/Dial, Analog Pressure, Compound Gauge. Pressure, Compound Calibrator, Indicator, Controller, Recorder, Transducer. Pressure, Compound Transmitter, Switch with Indicator	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Pressure, Compound Sensors / Transducers by comparison method as per DKD-R6-1	0 to 2 bar	0.0007 bar
187	MECHANICAL-PRESSURE INDICATING DEVICES	Altitude Chamber /Altimeter Chamber	Using Digital Barometer, Procedure based on OIML R 97 guidelines & AN 4528. (published paper) by comparison Method	150 mbar (abs) to 1050 mb	1.13 mbar (abs)
188	MECHANICAL-PRESSURE INDICATING DEVICES	Barometric, Absolute Pressure, Analog,Digital Absolute Pressure Gauge, Barometer, Barometric, Absolute Pressure Calibrator,Indicator, Controller, Recorder,Transducer ,Transmitter,Switch with Indicator.	Using Digital Precision Barometric Pressure indicator & 6½ Digit Digital Multimeter using for Barometric Pressure Sensors / Transducers by comparison method as per DKD-R6-1	150 mbar (abs) to 1050 mb	0.50 mbar (abs)

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189	MECHANICAL-PRESSURE INDICATING DEVICES	Digital,Analog Vacuum, Compound, Pressure Gauge. Vacuum,Compound, Pressure Calibrator,Indicator, Controller, Recorder,Transducer .Vacuum,Compound, Pressure Transmitter,Switch with Indicator.	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Vacuum, Compound, Pressure Sensors / Transducers by comparison method as per DKD-R6-1	(-) 0.87 bar to 0	0.00083 bar
190	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Differential Pressure, Magnehelic Gauge, Manometer. Differential Pressure Calibrator,Indicator, Controller,Recorder, Transducer. Differential Pressure Transmitter, Switch with indicator.	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Differential Pressure Sensors and Transducers by comparison method as per DKD-R6-1	500 mbar to 2000 mbar	0.14 mbar
191	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Differential Pressure,Magnehelic Gauge,Manometer.Differential Pressure Calibrator, Indicator, Controller,Recorder, Transducer. Differential Pressure Transmitter,Switch with indicator	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Differential Pressure Sensors / Transducers by comparison method as per DKD-R6-1	70 mbar to 500 mbar	0.055 mbar

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192	MECHANICAL-PRESSURE INDICATING DEVICES	Digital/Analog Pressure Gauges/ Hydraulic Pressure gauge.Pressure Calibrator, Indicator, Controller,Recorder, Transducer. Pressure Transmitter, Switch with Indicator.	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Pressure Sensors / Transducers by comparison method as per DKD-R6-1	200 bar to 1000 bar	0.059 bar
193	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Digital & Analog Pressure Gauge, Compound Gauge, Pressure, Compound Calibrator, Indicator, Controller, Recorder, Transducer, Transmitter, Switch with Indicator.	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Pressure, Compound Sensors / Transducers by comparison method as per DKD-R6-1	20 bar to 70 bar	0.0047 bar
194	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Digital & Analog Pressure Gauge, Compound Gauge, Pressure, Compound Calibrator, Indicator, Controller, Recorder, Transducer, Transmitter, Switch with Indicator.	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Pressure Sensors / Transducers by comparison method as per DKD-R6-1	70 bar to 200 bar	0.024 bar

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195	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic PressureDigital/Analog Pressure, Compound Gauge. Pressure, Compound Calibrator, Indicator, Controller, Recorder,Transducer. Pressure, Compound Transmitter, Switch with Indicator	Using Digital Precision Pressure Calibrator & 6½ Digit Digital Multimeter using for Pressure, Compound Sensors / Transducers by comparison method as per DKD-R6-1	2 bar to 20 bar	0.0015 bar
196	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Compression Mode)	Using Load Cells with Indicator as per IS 1828 Part 1:2022	1 kN to 5 kN	0.60%
197	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Compression Mode)	Using Load Cells with Indicator as per IS 1828 Part 1:2022	100 N to 1000 N	0.60 %
198	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, CBR Apparatus, Spring Testing Machine (Tensile Mode)	Using Load Cells with Indicator as per IS 1828 Part 1:2022	1 kN to 5 kN	0.60%
199	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, CBR Apparatus, Spring Testing Machine (Tensile Mode)	Using Load Cells with Indicator as per IS 1828 Part 1:2022	5 kN to 50 kN	0.60%

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200	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, CBR Apparatus, Spring Testing Machine, Flexural Testing Machine (Compression Mode)	Using Load Cells with Indicator as per IS 1828 Part 1:2022	5 kN to 50 kN	0.60 %
201	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, Spring Testing Machine, Flexural Testing Machine (Compression Mode)	Using Proving Ring, Load Cells as per IS 1828 Part 1:2022	50 kN to 1000 kN	0.60 %
202	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine, Spring Testing, Flexural Testing Machine (Compression Mode)	Using Proving Ring as per IS 1828 Part 1:2022	200 kN to 2000 kN	0.60 %
203	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Compression Mode)	Using Load Cells as per IS 1828 Part 1:2022	10 N to 100 N	0.60 %
204	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Tensile Mode)	Using Load Cells as per IS 1828 Part 1: 2022	10 N to 100 N	0.85 %
205	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Universal Testing Machine (Tensile Mode)	Using Load Cells as per IS 1828 Part 1:2022	100 N to 1000 N	0.60 %

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206	MECHANICAL-UTM, TENSION CREEP AND TORSION TESTING MACHINE	Verification of Speed for Material Testing Machine	Using height gauge & Stopwatch as per ASTM E 2658	1 mm/minute to 1000 mm/minute	1.0 mm/minute
207	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.0001mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	1 mg to 2.1 g	0.003 mg
208	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.001 g, (Class-III)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	1 mg to 50 kg	0.009 g
209	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.001mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	1 mg to 5.1 g	0.004 mg
210	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.01mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	1 mg to 210 g	0.03 mg
211	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.01mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	1 mg to 50 g	0.010 mg
212	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.1g, (Class-III)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	100 mg to 50 Kg	0.2 g
213	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 0.1mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	1 mg to 200 g	0.10 mg

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214	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 1 g, (Class-III)	Using Weights of Accuracy Class E1, E2, F1 as per OIML R76:2006	1 g to 100 kg	1 g
215	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 1 mg, (Class-II)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	1 mg to 1 kg	0.002 g
216	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 10 g, (Class-IIII)	Using Weights of Accuracy Class E1, E2, F1 as per OIML R-76:2006	10 g to 100 kg	10 g
217	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 100 mg, (Class-III)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	0.1 g to 20 kg	0.10 g
218	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 100g, (Class-IIII)	Using Weights of Accuracy Class F1 as per OIML R-76:2006	2 kg to 1000 kg	100 g
219	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 100g, (Class-IIII)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	2 kg to 2000 kg	100 g
220	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 100mg, (Class-III)	Using Weights of Accuracy Class E1, F1 as per OIML R-76:2006	0.1 g to 35 kg	0.100 g
221	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 100mg, (Class-III)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	0.1 mg to 10 kg	0.100 g
222	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING BALANCE, Readability: 50 g, (Class-IIII)	Using Weights of Accuracy Class E1, E2, F1 as per OIML R-76:2006	2 kg to 500 kg	50 g

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223	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING SCALE & BALANCE, Readability: 0.001g, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	10 mg to 20 kg	0.004 g
224	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING SCALE & BALANCE, Readability: 0.01 mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	0.1 mg to 2 kg	0.011 mg
225	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING SCALE & BALANCE, Readability: 0.1 mg, (Class-I)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	500 g to 5 kg	0.7 mg
226	MECHANICAL-WEIGHING SCALE AND BALANCE	WEIGHING SCALE & BALANCE, Readability: 1 mg, (Class-II)	Using Weights of Accuracy Class E1 as per OIML R-76:2006	0.1 mg to 5 kg	0.011 g
227	THERMAL-SPECIFIC HEAT & HUMIDITY	Dew Point Temperature Sensor with Indicator, Dew Point meter (inbuilt Sensor)	Using Temperature & Humidity Indicator with Sensor, Humidity Chamber, Digital Multimeter (read out) by Comparison Method	(-) 20 °C to 50 °C 10 % rh to 95 % rh	0.97 °C
228	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity (Digital and Analog) Thermo Hygrometers / Temperature and Humidity Meters / Temperature and Humidity Transmitters with Multimeter/Indicator, Data Loggers, Indicators, Controllers with Sensor	Using Standard Humidity Meter and Humidity Generator by Comparison Method	10 % rh to 95 % rh @ 25 °C	0.920 % rh

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229	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity (Digital and Analog) Thermo hygrometers / Temperature and Humidity Meters / Temperature and Humidity Transmitters with Multimeter/Indicator, Data Loggers, Indicators, Controllers with Sensor	Using temperature & humidity meter with probe, Temperature Generator by Comparison method	5 °C to 60 °C @ 50 %rh	0.239 °C
230	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers, Climatic Chambers, Environmental Chambers, Humidity Generators, Humidity Source and Sterilizers (Multi Position of min. 9 sensors)	Using Standard Temperature and Humidity Data Loggers by Comparison Method	10 % rh to 95 % rh @ 25 °C	1.16 % rh
231	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers, Climatic Chambers, Environmental Chambers, Humidity Generators, Humidity Source and Sterilizers (Multi Position of min. 9 sensors)	Using Standard Temperature and Humidity Data Loggers by Comparison Method	10 °C to 50 °C @ 50 %rh	0.55 °C

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232	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers, Climatic Chambers, Environmental Chambers, Humidity Generators, Humidity Source and Sterilizers (Multi Position)	Using Standard RTD sensor and Multichannel Recorder (minimum 9 sensor) by Wet & Dry Bulb Method	10 % rh to 95 %rh (10 °C to 95 °C)	3.56 % rh
233	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Chambers, Climatic Chambers, Environmental Chambers, Humidity Generators, Humidity Source and Sterilizers (Multi Position)	Using Standard RTD sensor and Multichannel Recorder (minimum 9 sensor) by Wet & Dry Bulb Method	10 °C to 95 °C (10 % rh to 95 % rh)	0.60 °C
234	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Humidity Chambers, Climatic Chambers, Environmental Chambers, Humidity Generators, Humidity Source and Sterilizers (Single Position)	Using temperature & humidity meter with probe, Temperature Generator by Comparison method	5 °C to 60 °C @ 50 %rh	0.248 °C
235	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator of Humidity Chambers, Climatic Chambers, Environmental Chambers, Humidity Generators, Humidity Source and Sterilizers (Single Position) .	Using Standard Humidity Meter by Comparison Method	10 %rh to 95 %rh @ 25 °C	1.069 %rh

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236	THERMAL-SPECIFIC HEAT & HUMIDITY	Indicator with sensor of Humidity Chambers, Dry cabinet, Climatic Chambers, Environmental Chambers, Humidity Generators, Humidity Source and Sterilizers (Single Position)	Using Standard Temperature and Humidity Meter by Comparison Method	0.3 % rh to 5 % rh @ 23 °C	0.70 %rh
237	THERMAL-TEMPERATURE	Thermocouples With / Without Indicators, Data Loggers, Paperless Recorders, Transmitters With / Without Indicators	Using Standard R Type Thermocouple with Indicator, Dry Bath and Digital Multimeter by Comparison Method Using Standard R Type Thermocouple with Indicator, Dry Bath and Digital Multimeter by Comparison Method	1200 °C to 1500 °C	1.88 °C
238	THERMAL-TEMPERATURE	Indicator of High Temp. Dry Bath / Block, Furnace, Chamber, Oven (Single Position)	Using Standard S Type Thermocouple with Indicator by Comparison Method	600 °C to 1200 °C	1.126 °C

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239	THERMAL-TEMPERATURE	Indicator with sensor of Liquid/Oil Bath, Low & High Temp. Dry Bath/Block, Freezer, Oven, Incubator [non Medical Purpose only], Autoclave [non Medical Purpose only], Centrifuge, Dry Cabinet, Environmental Chamber (Single Position)	Using Standard SPRT with Indicator by Comparison Method	(-) 95 °C to 140 °C	0.073 °C
240	THERMAL-TEMPERATURE	Indicator with sensor of High Temp. Dry Bath / Block, Furnace (Single Position)	Using Standard R Type Thermocouple with Indicator by Comparison Method	1200 °C to 1500 °C	1.86 °C
241	THERMAL-TEMPERATURE	Indicator with sensor of Low and High Temp. Dry Bath / Block, Furnace, Chambers, Ovens. (Single Position)	Using Standard SPRT with Indicator by Comparison Method	140 °C to 600 °C	0.41 °C
242	THERMAL-TEMPERATURE	Liquid/Oil Bath, Low and High Temperature Bath, Chambers, Ovens, Furnaces (Multi Position)	Using Standard N type Sensors and Multichannel Temperature Recorders (minimum 9 sensor)by Comparison Method	300 °C to 1200 °C	2.37 °C

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243	THERMAL-TEMPERATURE	RTD's, PRT's, Thermocouples With / Without Indicators, Data Loggers, Paperless Recorders, Digital/Analog Thermometers, Temperature Gauges and Transmitters with / Without Indicators	Using Standard SPRT with Indicator, Nitrogen Bath and Digital Multimeter (read out) by Comparison Method	(-) 196 °C	0.110 °C
244	THERMAL-TEMPERATURE	RTD's, PRT's, Thermocouples With / Without Indicators, Data Loggers, Paperless Recorders, Transmitters Digital/Analog Thermometers, Temperature Gauges, and Transmitters with / Without Indicators	Using Standard SPRT with Indicator, Dry Bath and Digital Multimeter by Comparison Method	140 °C to 600 °C	0.091 °C
245	THERMAL-TEMPERATURE	RTD's, PRT's, Thermocouples With / Without Indicators, Data Loggers,Paperless Recorders, Transmitters Digital/Analog Thermometers, Temperature Gauges, and Transmitters with / Without Indicators	Using Standard SPRT with Indicator, Dry Bath and Digital Multimeter by Comparison Method	(-) 95 °C to 140 °C	0.033 °C

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246	THERMAL-TEMPERATURE	Thermocouples With/Without Indicators, Data Loggers, paperless Recorders, Transmitters, Digital/Analog Thermometers and Transmitters with / Without Indicators	Using Standard S Type Thermocouple with Indicator, Dry Bath and Digital Multimeter by Comparison Method	600 °C to 1200 °C	1.12 °C
247	THERMAL-TEMPERATURE	Water/Oil Bath, Low & High Temp Bath, Incubator, freezer, Deep freezer, Ultra Deep freezer, Refrigerator, BOD Incubator, Environmental Chamber, Oven, Autoclave, Clean &Cold Rooms (Multi Position)	Using RTD Sensors and Multichannel Temperature Recorders (minimum 9 sensor) by Comparison Method by	(-) 80 °C to 300 °C	0.48 °C

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