



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

MRCREST INSTRUMENTS LLP, NO 24, 2ND STREET, SRI VENKATESWARA NAGAR,  
CHENNAI, TAMIL NADU, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

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**Validity**

25/07/2024 to 24/07/2026

**Last Amended on**

18/09/2024

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Active Power @ 50 Hz (10 V to 600 V, 0.01 A to 10 A, 0.5(Lead & Lag) to UPF)	Using Three Phase Calibration Meter and Source By Direct / Comparison Method	1 W to 4.5 kW	0.27 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase Active Energy @ 50 Hz (100 V to 600 V, 0.5 A to 20 A, 0.5(Lead & Lag) to UPF)	Using Three Phase Calibration Meter and Source By Direct / Comparison Method	1 Wh to 2 kWh	0.15 % to 0.11 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 3 Wire / 4 Wire, Active Energy @ 50 Hz (63.5 V to 240 V, 0.01 A to 20 A, 0.5(Lead & Lag) to UPF)	Using Three Phase Calibration Meter and Source By Direct / Comparison Method	100 mW to 20 kW	0.27 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 3 Wire / 4 Wire, Active Energy @ 50 Hz (63.5 V to 240 V, 0.01 A to 20 A, 0.5(Lead & Lag) to UPF)	Using Three Phase Calibration Meter and Source By Direct / Comparison Method	100 mWh to 20 kWh	0.3 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Capacitance @ 100 Hz	Using LCR Meter by Direct Method	1000 nF to 10 mF	0.06 % to 0.12 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Capacitance @1 kHz	Using LCR Meter by Direct Method	1 pF to 100 µF	0.06 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to 10 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	10 mA to 1 A	0.07 % to 0.12 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 mA to 10 mA	0.28 % to 1.21 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	10 mA to 100 mA	1.21 % to 0.23 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	100 µA to 1 mA	1.22 % to 0.54 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	30 µA to 100 µA	0.89 % to 1.22 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 A to 3 A	0.17 % to 0.36 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	3 A to 10 A	0.27 % to 0.4 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	1 mA to 30 A	0.04 % to 0.07 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	10 µA to 1 mA	0.28 % to 0.04 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method:	100 mA to 500 mA	0.26 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	500 mA to 1 A	0.26 % to 0.17 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High voltage Probe with Digital multimeter and HV Source Direct/ Comparison Method	1 kV to 28 kV	4.35 % to 4.68 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1 kHz	Using LCR Meter by Direct Method	1 ohm to 10 kohm	0.06 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 20 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	1 mV to 100 mV	0.7 % to 0.035 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 20 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	10 V to 200 V	0.023 % to 0.03 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 20 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	100 mV to 10 V	0.035 % to 0.014 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 V to 10 V	0.21 % to 0.13 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	10 V to 100 V	0.13 % to 0.1 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	100 mV to 1 V	0.12 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 mV to 100 mV	1.92 % to 0.12 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	100 V to 1000 V	0.1 % to 0.096 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40 Hz to 1 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	10 V to 1000 V	0.016 % to 0.018 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40 Hz to 1 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	100 mV to 10 V	0.017 % to 0.015 %



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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40Hz to 1 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	1 mV to 100 mV	0.73 % to 0.017 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @1 kHz	Using LCR Meter by Direct Method	100 µH to 10 H	0.12 % to 0.15 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz (10 V to 600 V, 0.01 A to 10 A)	Using Three Phase Calibration Meter and Source By Direct / Comparison Method	0.2 (Lead/Lag) to UPF	0.002
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using MPC by Direct Method	2.99 A to 10 A	0.21 % to 0.12 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 10 kHz	Using MPC by Direct Method	1 A to 2.99 A	0.25 % to 0.21 %



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35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 10 kHz	Using MPC by Direct Method	3.2 mA to 32 mA	0.24 % to 0.11 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 10 kHz	Using MPC by Direct Method	30 µA to 3.2 mA	0.21 % to 0.24 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 10 kHz	Using MPC by Direct Method	32 mA to 320 mA	0.11 % to 0.21 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 10 kHz	Using MPC by Direct Method	320 mA to 1 A	0.21 % to 0.25 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using MPC with Current Coil by Direct Method	10 A to 550 A	0.035 % to 0.4 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Ac Voltage @ 40 Hz to 1 kHz	Using MPC by Direct Method	1 mV to 32 mV	0.46 %



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41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using MPC by Direct Method	32 V to 320 V	0.066 % to 0.059 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using MPC by Direct Method	320 V to 990 V	0.059 % to 0.06 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Ac Voltage @ 45 Hz to 1 kHz	Using MPC by Direct Method	990 V to 1000 V	0.062 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 20 kHz	Using MPC by Direct Method	3.2 V to 32 V	0.06 % to 0.09 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 20 kHz	Using MPC by Direct Method	32 mV to 320 mV	0.24 % to 0.06 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 20 kHz	Using MPC by Direct Method	320 mV to 3.2 V	0.06 %



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47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using MPC by Direct Method	1.0999 $\mu$ F to 3.2999 $\mu$ F	0.5 % to 0.39 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using MPC by Direct Method	0.5 nF to 1.0999 nF	3.8 % to 2.06 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using MPC by Direct Method	10.999 nF to 32.999 nF	0.61 % to 0.78 %
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using MPC by Direct Method	110 nF to 329.99 nF	0.47 % to 0.39 %
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using MPC by Direct Method	3.2999 nF to 10.999 nF	1.12 % to 0.61 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using MPC by Direct Method	1.0999 nF to 3.2999 nF	2.06 % to 1.12 %



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53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using MPC by Direct Method	32.999 nF to 110 nF	0.78 % to 0.47 %
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using MPC by Direct Method	10.999 $\mu$ F to 32.999 $\mu$ F	0.39 % to 0.67 %
55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using MPC by Direct Method	3.2999 $\mu$ F to 10.999 $\mu$ F	0.39 %
56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using MPC by Direct Method	32.999 $\mu$ F to 109.99 $\mu$ F	0.67 % to 0.77 %
57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using MPC by Direct Method	329.99 nF to 1.0999 $\mu$ F	0.39 % to 0.5 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductance Box by Direct Method	10 $\mu$ H to 10 H	0.76 % to 0.5 %



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59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50Hz (10 V to 600 V, 0.2 A to 10 A)	Using MPC by Direct Method	0.2 lag to UPF	0.003 PF
60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50Hz (10 V to 600 V, 0.2 A to 10 A)	Using MPC by Direct Method	0.2 Lead to UPF	0.003 PF
61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Active Power @ 50 Hz (10 V to 1000 V, 0.01 A to 11 A, UPF)	Using MPC by Direct Method	1 W to 6 kW	0.34 % to 0.12 %
62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Active Power @ 50 Hz (10 V to 600 V, 0.2 A to 10 A, 0.5(lag/lead) to UPF)	Using MPC by Direct Method	1 W to 3 kW	1.14 % to 1.13 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ Digit DMM by Direct Method	1 nF to 10 µF	1.05 % to 1.2 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	10 mA to 100 mA	0.081 % to 0.063 %



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65	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	3 A to 10 A	0.14 % to 0.18 %
66	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 A to 3 A	0.082 % to 0.14 %
67	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 mA to 10 mA	0.064 % to 0.081 %
68	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	100 µA to 1 mA	0.089 % to 0.064 %
69	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	400 mA to 1 A	0.066 % to 0.082 %
70	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM with shunt DC Current source by V/I Method	0.1 A to 250 A	0.05 %



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71	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit DMM & MPC by Direct / Comparison Method	1 µA to 100 µA	0.062 % to 0.011 %
72	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	10 µA to 100 µA	0.4 % to 0.9 %
73	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit DMM & MPC by Direct / Comparison Method	100 µA to 20 A	0.011 % to 0.028 %
74	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	100 mA to 500 mA	0.063 % to 0.066 %
75	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit DMM & MPC by Direct / Comparison Method	100 nA to 1 µA	7.04 % to 0.7 %
76	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit DMM & MPC by Direct / Comparison Method	20 A to 30 A	0.0042 % to 0.016 %



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77	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC High Voltage	Using High voltage Probe with Digital multimeter and HV Source by Comparison Method	5 kV to 40 kV	4.62 % to 4.46 %
78	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC High Voltage	Using High voltage Probe with Digital multimeter and HV Source by Comparison Method	1 kV to 5 kV	4.83 % to 4.62 %
79	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Power (10 V to 1000 V, 0.1 A to 10 A)	Using Three Phase Calibration Meter and Source By Direct / Comparison Method	1 W to 10 kW	0.23 %
80	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Power (10V to 1000 V, 0.01 A to 20 A)	Using Three Phase Calibration Meter and Source By Direct / Comparison Method	100 mW to 20 kW	8.8 % to 0.18 %
81	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Resistance ( 4 Wire)	Using 8½ Digit DMM by Direct Method	1 ohm to 1 kohm	0.0015 % to 0.06 %
82	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 8½ Digit DMM by Direct Method	10 Gohm to 20 Gohm	0.35 % to 0.44 %



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83	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 8½ Digit DMM100 Mohm to 10 Gohm by Direct Method		0.35 % to 0.18 %
84	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Resistance (2wire) @ upto 1000V	Using 8½ Digit DMM100 & MPC by V/I Method	1 kohm to 100 Gohm	0.004 % to 6.94 %
85	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ Digit DMM by Direct Method	1 kohm to 100 Mohm	0.06 % to 0.014 %
86	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 8½ Digit DMM by Direct Method	1 mohm to 1 ohm	0.48 % to 0.06 %
87	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Resistance (4Wire)	Using 8½ Digit DMM & MPC by V/I Method	1 mohm to 1 ohm	0.07 % to 0.06 %
88	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Resistance (4Wire)	Using 8½ Digit DMM & MPC by V/I Method	20 µohm to 1 mohm	0.033 % to 0.07 %



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89	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 mV to 100 mV	0.051 % to 0.0091 %
90	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 V to 10 V	0.0039 % to 0.0035 %
91	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM & MPC by Direct / Comparison Method	10 V to 100 V	0.0035 % to 0.0053 %
92	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM & MPC by Direct / Comparison Method	100 mV to 1 V	0.0091 % to 0.0039 %
93	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM & MPC by Direct / Comparison Method	100 V to 1000 V	0.0053 % to 0.0061 %
94	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit DMM & MPC by Direct / Comparison Method	1 mV to 10 V	0.012 % to 0.0005 %



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95	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit DMM & Dc Source by Direct / Comparison Method	10 µV to 1 mV	4.82 % to 0.041 %
96	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit DMM & MPC by Direct / Comparison Method	10 V to 1000 V	0.00034 % to 0.0009 %
97	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digit DMM by Direct Method	100 Mohm to 1 Gohm	0.95 % to 2.32 %
98	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digit DMM by Direct Method	10 Mohm to 100 Mohm	0.049 % to 0.95 %
99	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digit DMM by Direct Method	1 ohm to 10 ohm	0.36 % to 0.046 %
100	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digit DMM by Direct Method	100 ohm to 1 kohm	0.016 % to 0.012



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101	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4wire)	Using 6½ Digit DMM by Direct Method	10 ohm to 100 ohm	0.046 % to 0.016 %
102	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4wire)	Using 6½ Digit DMM by Direct Method	1 kohm to 10 kohm	0.012 %
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4Wire)	Using 6½ Digit DMM by Direct Method	1 Mohm to 10 Mohm	0.013 % to 0.049 %
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4wire)	Using 6½ Digit DMM by Direct Method	10 kohm to 100 kohm	0.012 %
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4wire)	Using 6½ Digit DMM by Direct Method	100 kohm to 1 Mohm	0.012 % to 0.013 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MPC by Direct Method	1 A to 2.99 A	0.053 % to 0.046 %



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107	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MPC by Direct Method	2.99 A to 10 A	0.046 % to 0.077 %
108	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MPC by Direct Method	3.2 mA to 32 mA	0.017 % to 0.014 %
109	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MPC by Direct Method	32 mA to 320 mA	0.014 % to 0.012 %
110	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MPC by Direct Method	320 mA to 1 A	0.012 % to 0.053 %
111	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MPC by Direct Method	1 µA to 3.2 mA	0.87 % to 0.017 %
112	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MPC with 50 turns Current Coil by Direct Method	10 A to 550 A	0.035 % to 0.5 %



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113	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MPC by Direct Method	1 mV to 330 mV	0.12 % to 0.008 %
114	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MPC by Direct Method	3.3 V to 1000 V	0.006 %
115	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MPC by Direct Method	330 mV to 3.3 V	0.008 % to 0.006 %
116	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using MPC by Direct Method	32.9 Mohm to 109.9 Mohm	0.13 % to 0.69 %
117	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using MPC by Direct Method	329.9 Mohm to 1100 Mohm	0.62 % to 1.78 %
118	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using MPC by Direct Method	1 Mohm to 3.2 Mohm	0.023 % to 0.021 %



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119	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using MPC by Direct Method	10.9 Mohm to 32.9 Mohm	0.07 % to 0.13 %
120	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using MPC by Direct Method	109.9 ohm to 329.9 ohm	0.02 % to 0.018 %
121	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using MPC by Direct Method	3.2 Mohm to 10.9 Mohm	0.021 % to 0.07 %
122	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using MPC by Direct Method	329.9 Kohm to 1 Mohm	0.018 % to 0.023 %
123	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5 kV	Using Standard Resistance Box by Direct Method	1 Gohm	2.4 %
124	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5 kV	Using Standard Resistance Box by Direct Method	1 Tohm	5.9 %



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125	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5 kV	Using Standard Resistance Box by Direct Method	10 Gohm	2.5 %
126	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2Wire) @ 5 kV	Using Standard Resistance Box by Direct Method	100 Gohm	2.5 %
127	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	1 kohm to 3.2 kohm	0.014 % to 0.02 %
128	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	1 ohm to 10.9 ohm	1.17 % to 0.12 %
129	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	3.2 kohm to 10.9 kohm	0.02 % to 0.01 %
130	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	32.9 kohm to 109.9 kohm	0.022 % to 0.015 %



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131	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	32.9 ohm to 109.9 ohm	0.06 % to 0.02 %
132	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	10.9 kohm to 32.9 kohm	0.01 % to 0.022 %
133	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	10.9 ohm to 32.9 ohm	0.12 % to 0.06 %
134	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	109.9 kohm to 300 kohm	0.015 % to 0.018%
135	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4Wire)	Using Standard Resistance Box by Direct Method	10 Mohm	1.35 %
136	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4Wire)	Using Standard Resistance Box by Direct Method	100 Mohm	1.3 %



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137	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4wire)	Using MPC by Direct Method	329.9 ohm to 1 kohm	0.01 % to 0.014 %
138	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - AC Amplitude @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	5 mV to 105 V	0.29 %
139	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - BandWidth	Using Signal Generator by Direct Method	300 MHz to 3 GHz	5 %
140	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - BandWidth	Using Multi Product Calibrator by Direct Method	50 kHz to 300 MHz	2 % to 5 %
141	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - DC Amplitude	Using Multi Product Calibrator by Direct Method	5 mV to 33 V	0.29 %
142	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - DC Amplitude	Using Multi Product Calibrator by Direct Method	(-) 5 mV to (-) 33 V	0.06 %



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143	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time Base	Using Multi Product Calibrator by Direct Method	50 ns to 5 s	0.028 % to 0.21 %
144	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Amplitude Modulation (CF: 10 MHz to 1.3 GHz) @ Mod rate: 1 kHz	Using Spectrum Analyzer by Direct Method	10 % to 90 %	2.85 % to 4.5 %
145	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency	Using Frequency Counter & Multiproduct calibrator by Direct / Comparison Method	100 Hz to 10 kHz	0.001 %
146	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency Modulation (CF:10 MHz to 1.3GHz) @ Mod rate:1 kHz	Using Spectrum Analyzer and Signal generator by Direct / Comparison Method	10 kHz to 100 kHz	2.94 %
147	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency	Using Frequency Counter & Digital Multimeter by Direct / Comparison Method	1 Hz to 100 Hz	0.016 % to 0.001 %



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148	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency	Using Frequency Counter/Counter power meter and signal generator by Direct / Comparison Method Using Network Analyzer, Cal Kit	10 kHz to 40 GHz	0.0001 % to 0.000019 %
149	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Reflection Coefficient / Voltage Standing Wave Ratio @ 9 kHz to 26.5 GHz	Termination by 50 ohm termination by Comparison Method	0.024 rho to 0.33 rho	2.58 % to 9 %
150	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Microwave Power Loss, Attenuation (9 kHz to 26.5 GHz) Attenuation, Insertion Loss, Return Loss, Coupling Loss, Decoupling Loss, Isolation Loss @ 50 ohm	Using Vector Network Analyzer by Direct Method	1 ohm to 300 ohm	3.2 %



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151R	ELECTRO-TECHNICAL-F/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Microwave Power Loss, Attenuation @ 9 kHz to 18 GHz Attenuation, Insertion Loss, Return Loss, Coupling Loss, Decoupling Loss, Isolation Loss, Voltage Division Factor, VSWR	Using Network Analyser by Direct Method	0 dB to 60 dB	0.91 dB
152R	ELECTRO-TECHNICAL-F/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power @ 10 MHz to 18 GHz	Using Power Meter with sensor and signal generator by Direct / Comparison Method	(-) 10 dBm to 13 dBm	0.42 dBm to 0.4 dBm
153R	ELECTRO-TECHNICAL-F/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power @ 10 MHz to 18 GHz	Using Power Meter with sensor and signal generator by Direct / Comparison Method	(-) 60 dBm to (-) 10 dBm	0.52 dBm to 0.45 dBm
154R	ELECTRO-TECHNICAL-F/MICROWAVE (1 GHZ AND ABOVE) (Source)	Amplitude Modulation (CF : 10 MHz to 1.3 GHz) @ Mod rate : 1 kHz	Using Signal Generator by Direct Method	5 % to 95 %	2.85 % to 3.95 %



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155	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency Modulation (CF : 10 MHz to 1.3 GHz) @ Mod rate : 1 kHz	Using Signal Generator by Direct Method	10 kHz to 100 kHz	2.99 %
156	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency	Using Signal Generator by Direct Method	250 kHz to 3 GHz	0.00058 % to 0.0001 %
157	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency	Using Signal Generator by Direct Method	3 GHz to 20 GHz	0.0001 % to 0.0019 %
158	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power @ 250 kHz to 3 GHz	Using Signal Generator by Direct Method	(-) 60 dBm to 13 dbm	0.5 dBm
159	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power @ 3 GHz to 18 GHz	Using Signal Generator by Direct Method	(-) 60 dbm to 10 dBm	0.46 dBm



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160	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using MPC by Direct Method	(-) 150 °C to 0 °C	0.28 °C
161	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using MPC by Direct Method	(-) 250 °C to (-) 150 °C	0.73 °C
162	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using 8½ Digit DMM by Direct Method	100 °C to 1800 °C	0.1 °C
163	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using MPC by Direct Method	600 °C to 1800 °C	0.45 °C
164	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 1000 °C	0.19 °C
165	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using MPC by Direct Method	(-) 250 °C to (-) 100 °C	0.58 °C

ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)



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166	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using 8½ Digit DMM(-) by Direct Method	250 °C to 1000 °C	0.014 °C
167	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using MPC by Direct Method	760 °C to 1000 °C	0.2 °C
168	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using 8½ Digit DMM(-) by Direct Method	200 °C to 1200 °C	0.017 °C
169	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 760 °C	0.17 °C
170	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using 8½ Digit DMM(-) by Direct Method	200 °C to 1350 °C	0.02 °C
171	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using MPC by Direct Method	1000 °C to 1372 °C	0.3 °C



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172	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to (-) 100 °C	0.21 °C
173	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 1000 °C	0.19 °C
174	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using 8½ Digit DMM(-) by Direct Method	200 °C to 1300 °C	0.02 °C
175	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 1300 °C	0.21 °C
176	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to (-) 100 °C	0.46 °C
177	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using MPC by Direct Method	0 °C to 250 °C	0.66 °C

ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)



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178	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using MPC by Direct Method	400 °C to 1767 °C	0.38 °C
179	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using 8½ Digit DMM by Direct Method	0 °C to 1750 °C	0.09 °C
180	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using MPC by Direct Method	250 °C to 400 °C	0.4 °C
181	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using 6½ Digit DMM by Direct Method	(-) 200 °C to 300 °C	0.12 °C
182	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using 6½ Digit DMM by Direct Method	300 °C to 600 °C	0.16 °C
183	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using 6½ Digit DMM by Direct Method	600 °C to 800 °C	0.26 °C

ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)



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184	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using 8½ Digit DMM by Direct Method	(-) 200 °C to 800 °C	0.06 °C
185	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using MPC by Direct Method	0 °C to 250 °C	0.54 °C
186	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using MPC by Direct Method	250 °C to 1767 °C	0.43 °C
187	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using 8½ Digit DMM by Direct Method	0 °C to 1750 °C	0.09 °C
188	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using MPC by Direct Method	0 °C to 400 °C	0.17 °C
189	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using 8½ Digit DMM by Direct Method	(-) 250 °C to 400 °C	0.02 °C

ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)



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190	ELECTRO-TECHNICAL-TEMPERATURE Thermocouple SIMULATION (Measure)	Thermocouple	Using MPC by Direct Method	(-) 210 °C to (-) 100 °C	0.31 °C
191	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using MPC by Direct Method	100 °C to 600 °C	0.17 °C
192	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using MPC by Direct Method	600 °C to 1800 °C	0.45 °C
193	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using MPC by Direct Method	100 °C to 1800 °C	0.17 °C
194	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using MPC by Direct Method	(-) 250 °C to (-) 100 °C	0.58 °C
195	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 1000 °C	0.19 °C

ELECTRO-TECHNICAL-TEMPERATURE

E  
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196	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using MPC by Direct Method	(-) 250 °C to 1000 °C	0.1 °C
197	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to 1200 °C	0.1 °C
198	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 760 °C	0.17 °C
199	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using MPC by Direct Method	760 °C to 1050 °C	0.2 °C
200	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to (-) 100 °C	0.31 °C
201	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to (-) 100 °C	0.38 °C



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202	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using MPC by Direct Method	1000 °C to 1350 °C	0.3 °C
203	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 1000 °C	0.19 °C
204	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to 1350 °C	0.11 °C
205	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 1300 °C	0.21 °C
206	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to (-) 100 °C	0.46 °C
207	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to 1300 °C	0.11 °C



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208	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using MPC by Direct Method	0 °C to 1750 °C	0.18 °C
209	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using MPC by Direct Method	0 °C to 250 °C	0.66 °C
210	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using MPC by Direct Method	250 °C to 400 °C	0.4 °C
211	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using MPC by Direct Method	400 °C to 1750 °C	0.38 °C
212	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using MPC by Direct Method	(-) 200 °C to 100 °C	0.058 °C
213	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using MPC by Direct Method	100 °C to 300 °C	0.08 °C



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214	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using MPC by Direct Method	300 °C to 630 °C	0.11 °C
215	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using MPC by Direct Method	630 °C to 800 °C	0.15 °C
216	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using MPC by Direct Method	250 °C to 1767 °C	0.43 °C
217	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using MPC by Direct Method	0 °C to 250 °C	0.54 °C
218	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using MPC by Direct Method	0 °C to 1750 °C	0.2 °C
219	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to (-) 150 °C	0.73 °C



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220	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using MPC by Direct Method	0 °C to 400 °C	0.17 °C
221	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using MPC by Direct Method	(-) 150 °C to 0 °C	0.28 °C
222	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to 400 °C	0.036 °C
223	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit DMM & MPC by Direct / Comparison Method	10 Hz to 40 Hz	0.16 % to 0.08 %
224	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit DMM & MPC by Direct / Comparison Method	3 Hz to 5 Hz	0.22 %
225	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit DMM & MPC by Direct / Comparison Method	300 kHz to 1000 kHz	0.022 %



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226	ELECTRO-TECHNICAL - TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit DMM & MPC by Direct / Comparison Method	5 Hz to 10 Hz	0.22 % to 0.16 %
227	ELECTRO-TECHNICAL TIME & FREQUENCY (Measure)	Time Interval	Using Digital Timer by Comparison Method	10000 s to 86400 s	0.5 s
228	ELECTRO-TECHNICAL TIME & FREQUENCY (Measure)	Time Interval	Using Digital Timer by Comparison Method	1 s to 10 s	0.11 s
229	ELECTRO-TECHNICAL TIME & FREQUENCY (Measure)	Time Interval	Using Digital Timer by Comparison Method	10 s to 100 s	0.163 s
230	ELECTRO-TECHNICAL TIME & FREQUENCY (Measure)	Time Interval	Using Digital Timer by Comparison Method	100 s to 1000 s	0.23 s to 0.5 s
231	ELECTRO-TECHNICAL TIME & FREQUENCY (Measure)	Time Interval	Using Digital Timer by Comparison Method	1000 s to 10000 s	0.5 s



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232	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MPC by Direct Method	11.999 kHz to 119.9 kHz	0.006 %
233	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MPC by Direct Method	119.9 kHz to 1199.9 kHz	0.006 % to 0.004 %
234	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MPC by Direct Method	119.99 Hz to 1199.9 Hz	0.006 % to 0.004 %
235	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MPC by Direct Method	1199.9 Hz to 11.999 kHz	0.006 %
236	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MPC by Direct Method	1199.9 kHz to 2 MHz	0.004 %
237	FLUID FLOW-FLOW MEASURING DEVICES	Air Velocity Anemometer, Velocity Meter with Indicator, Velocity Sensor / Transmitter	Using Air Velocity Sensor with Indicator by Comparison Method	> 1 m/s to 3 m/s	3.94 %



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238	FLUID FLOW-FLOW MEASURING DEVICES	Air Velocity Anemometer, Velocity Meter with Indicator, Velocity Sensor / Transmitter	Using Air Velocity Sensor with Indicator by Comparison Method	> 3 m/s to 5 m/s	3.87 %rdg
239	FLUID FLOW-FLOW MEASURING DEVICES	Air Velocity Anemometer, Velocity Meter with Indicator, Velocity Sensor / Transmitter	Using Air Velocity Sensor with Indicator by Comparison Method	> 5 m/s to 30 m/s	2.65 %rdg
240	FLUID FLOW-FLOW MEASURING DEVICES	Air Velocity Anemometer, Velocity Meter with Indicator, Velocity Sensor / Transmitter	Using Air Velocity Sensor with Indicator by Comparison Method	0.3 m/s to 1 m/s	5.73 %
241	FLUID FLOW-FLOW MEASURING DEVICES	Analog / Digital Flow meter and rotameter (Air Medium)	Using Gas flow Calibrator by Comparison Method	1 lpm to 100 lpm	0.89 %
242	FLUID FLOW-FLOW MEASURING DEVICES	Analog / Digital Flow meter and rotameter (Air Medium)	Using Gas flow Calibrator by Comparison Method	60 cc/min to 10000 cc/min	0.97 %
243	FLUID FLOW-FLOW MEASURING DEVICES	Liquid Flow Meter - Volume Flow rate (Water Medium)	Using Ultrasonic Clamp on Liquid Flow Meter by Comparison Method	1 m <sup>3</sup> /hr to 246 m <sup>3</sup> /hr	2.62 %rdg



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244	MECHANICAL-ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Contact Type	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	2.4 rpm
245	MECHANICAL-ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Contact Type	Using Digital Tachometer by Comparison Method	1000 rpm to 4000 rpm	9.6 rpm
246	MECHANICAL-ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Contact Type	Using Digital Tachometer by Comparison Method	4000 rpm to 8000 rpm	9.6 rpm
247	MECHANICAL-ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Contact Type	Using Digital Tachometer by Comparison Method	6 rpm to 100 rpm	1.017 rpm
248	MECHANICAL-ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	2.7 rpm



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249	MECHANICAL- ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	1000 rpm to 10000 rpm	9.6 rpm
250	MECHANICAL- ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	10000 rpm to 20000 rpm	18.12 rpm
251	MECHANICAL- ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	20000 rpm to 50000 rpm	31.77 rpm
252	MECHANICAL- ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	50000 rpm to 90000 rpm	57.23 rpm
253	MECHANICAL- ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	10000 rpm to 20000 rpm	18.12 rpm



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254	MECHANICAL-ACCELERATION AND SPEED	Tachometers (Contact Type)	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	100 rpm to 1000 rpm	1.2 rpm
255A	MECHANICAL-ACCELERATION AND SPEED	Tachometers (Non-Contact Type)	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	1000 rpm to 10000 rpm	9.6 rpm
256A	MECHANICAL-ACCELERATION AND SPEED	Tachometers - Contact Type	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	1000 rpm to 4000 rpm	9.6 rpm
257A	MECHANICAL-ACCELERATION AND SPEED	Tachometers - Contact Type	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	6 rpm to 100 rpm	1.01 rpm
258A	MECHANICAL-ACCELERATION AND SPEED	Tachometers - Contact Type	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	4000 rpm to 8000 rpm	8.73 rpm
259A	MECHANICAL-ACCELERATION AND SPEED	Tachometers - Non-Contact Type	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	6 rpm to 100 rpm	1.01 rpm



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260A	MECHANICAL-ACCELERATION AND SPEED	Tachometers - Non-Contact Type	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	100 rpm to 1000 rpm	2.7 rpm
261A	MECHANICAL-ACCELERATION AND SPEED	Tachometers - Non-Contact Type	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	20000 rpm to 50000 rpm	31.76 rpm
262A	MECHANICAL-ACCELERATION AND SPEED	Tachometers - Non-Contact Type	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	50000 rpm to 90000 rpm	53.7 rpm
263A	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter - Displacement @ 10 Hz to 1280 Hz	Using Digital Vibration Meter by Comparison Method as per ISO 16063-21	0.05 mm to 1 mm	4.3 %
264A	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter - Velocity @ 10 Hz to 1280 Hz	Using Digital Vibration Meter by Comparison Method as per ISO 16063-21	1 mm/s to 100 mm/s	4.09 %
265A	MECHANICAL-ACCELERATION AND SPEED	Vibration Meter / Accelerometer - Acceleration @ 10 Hz to 1280 Hz	Using Digital Vibration Meter by Comparison Method as per ISO 16063-21	1 m/s <sup>2</sup> to 50 m/s <sup>2</sup>	7.55 %
266	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	114 dB	0.5 dB



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267	MECHANICAL-ACOUSTICS	Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB	0.5 dB
268	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge	Using sine bar Gauge block, Digital Dial indicator & surface plate by Direct Method	1 ° to 30 °	3 min of arc
269	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Combination set (L.C.: 1 °)	Using Profile Projector by Comparison Method	0 to 360 °	4.99 °
270	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor / Combination set (L.C.: 10 s)	Using Angle Gauge Block by Direct Method	0°- 90 ° - 0 °	0.86 °
271	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge - For Transmission error Only (L.C.: 0.001 mm)	Using Dial Calibration Tester by Comparison Method as per JIS B 7515	0 to 1 mm	4.3 µm



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272	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Digital / Dial / Vernier (L.C.: 0.01 mm)	Using Gauge Block Set & Caliper Checker By Comparison Method as per IS: 16491 Part 1	0 to 300 mm	7.6 µm
273	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Digital / Dial / Vernier (L.C.: 0.01 mm)	Using Gauge Block Set & Caliper Checker By Comparison Method as per IS: 16491 Part 1	0 to 600 mm	12.5 µm
274	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.001 mm)	Using Standard Foils by Comparison Method	50 µm to 1450 µm	8.57 µm
275	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness Only)	Using Dial Indicator by Comparison Method	50 mm to 400 mm	3.09 µm
276	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using Digital Dial Indicator (L.C.: 0.1 µm) & Slip Gauge block Set by Comparison Method as per IS 11103	0.5 mm to 20 mm	2.04 µm



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277	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial / Digital Thickness Gauge (L.C.: 0.01 mm & Coarser)	Using Slip Gauge block Set by Comparison Method	0 to 10 mm	5.78 µm
278	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Depth Gauge (L.C.: 0.01 mm & Coarser)	Using Slip Gauge block Set, Gauge block accessories by Comparison Method	0 to 25 mm	5.78 µm
279	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital / Dial / External - Depth Micrometer (L.C : 0.001 mm)	Using Gauge Block Set & Long Slip Gauges by Comparison Method	0 to 300 mm	8.48 µm
280	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Elongation Gauge	Using Digital Caliper Direct Method	10 mm to 60 mm	20 µm
281	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Parallel (Thickness and Width)	Using Slip Gauge block Set, Surface Plate & Digital Dial Indicator by Comparison Method as per IS 4241	100 mm to 300 mm	3.3 µm



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282	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Parallel (Equality Of Pairs)	Using Slip Gauge block Set, Surface Plate & Digital Dial Indicator by Comparison Method as per IS 4241	100 mm to 300 mm	3.5 µm
283	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Parallel (Parallelism)	Using Slip Gauge block Set, Surface Plate & Digital Dial Indicator by Comparison Method	100 mm to 300 mm	3.5 µm
284	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Parallel (Width Variation In Thickness)	Using Slip Gauge block Set, Surface Plate & Digital Dial Indicator by Comparison Method	100 mm to 300 mm	3.3 µm
285	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square / Tri Square (Straightness)	Using Lever Dial, Surface plate, Slip Gauge Blocks by Direct Method	0 to 300 mm	7 µm
286	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer - Analog / Digital (L.C.: 0.001 mm & Coarser)	Using Gauge Block Set & Long Slip Gauges by Comparison Method IS 2967	0 to 25 mm	2 µm



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287	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer Analog / Digital (L.C.: 0.01 mm & Coarser)	Using Gauge Block Set & Long Slip Gauges By Comparison Method	0 to 200 mm	6.46 $\mu$ m
288	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Digital Dial Indicator, Comparator stand by Comparison Method as per IS: 3179	0.03 mm to 1 mm	2 $\mu$ m
289	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Micrometer by Direct Method	0.03 mm to 1 mm	5 $\mu$ m
290	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge	Using Profile Projector by Direct Method	10 mm to 63 mm	20 $\mu$ m
291	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge	Using Slip Gauge block Set, Long slip, Digital Dial indicator by Comparison Method	1 mm to 100 mm	3.6 $\mu$ m



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292	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block Accessories (Flatness)	Using Gauge Block & Digital Dial indicator by Comparison Method	2.5 mm to 250 mm	1 µm
293	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Gauge Block Accessories (Parallelism)	Using Gauge Block & Optical Flat by Comparison Method	2.5 mm to 60 mm	3.5 µm
294	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Granite Square (Flatness)	Using Surface Plate & Dial Indicator by Comparison Method as per IS:2103	100 mm to 600 mm	3.67 µm
295	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Granite Square (Squareness)	Using Surface Plate & Dial Indicator, Granite Square by Comparison Method as per IS:2103	100 mm to 600 mm	10 µm
296	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Hegman Gauge - Depth Measurement	Using Plunger Digital Dial Gauge, Comparator stand by Direct Method	0 to 100 µm	3 µm



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297	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Digital (L.C.: 0.01 mm & coarser)	Using Gauge Block Set & Long Slip Gauges by Comparison Method as per IS2921	0 to 600 mm	9.77 µm
298	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inclinometer/ Digital Angle Protractor (L.C.: 0.01 °)	Using Angle Gauge Block by Direct Method	0 to 360 °	3.6 min of arc
299	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal / Stick Micrometer (L.C.: 0.01 mm)	Using Gauge Block Set & Long Slip Gauges & Dial Test Indicator by Comparison Method	50 mm to 600 mm	7.98 µm
300	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Laser Distance Meter (L.C.: 1 mm)	Using Slip Gauge and Long slip by Comparison Method	0 to 1000 mm	592.84 µm
301	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C.: 0.001 mm & coarser)	Using Dial Calibration Tester by Comparison Method	0 to 0.14 mm	1.79 µm



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302	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges Angle	Using Profile Projector by Direct method	0 to 360 °	4 min of arc
303	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Limit Gauges Height, Depth, Length, Diameter, Radius	Using Gauge Blocks & Profile Projector by Direct Method	0 to 300 mm	6 µm
304	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring scale (L.C.: 1 mm)	Using Scale and Tape Calibrator by Direct Method	Upto 1000 mm	577.48 µm
305	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape / Pie Tape (L.C.: 1 mm)	Using Scale and Tape Calibrator by Direct Method	0 to 50 m	577 x sqrt(L)µm, where L in m
306	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Head - Deviation of Traverse over (L.C.: 0.0002 mm & Coarser)	Using Digital Dial Indicator & Slip Gauge block Set by Comparison Method as per IS: 9483	0 to 25 mm	1.3 µm



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307	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Mould (Cube, Beam, Cylindrical) - X : 300mm, Y ; 300mm	Using Digital Caliper by Comparison Method	50 mm to 150 mm	17.5 µm
308	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Block (Flatness)	Using Slip Gauge block Set, Surface Plate & Digital Dial Indicator by Comparison Method as per IS 4241	50 mm to 300 mm	3.5 µm
309	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Block (squareness)	Using Slip Gauge block Set, Surface Plate, Granite Square & Digital Dial Indicator by Comparison Method	50 mm to 300 mm	5.5 µm
310	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge	Using Profile Projector by Comparison Method	0.35 mm to 7 mm	5.51 µm
311	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width Gauge	Using Slip Gauge block Set, Digital Dial Indicator by Comparison Method as per IS: 6137	1 mm to 100 mm	1.3 µm



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312	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width Gauge	Using Digital Dial Indicator & Slip Gauge block Set by Comparison Method as per IS: 6137	100 mm to 300 mm	2.5 µm
313	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C.: 0.0001 mm & coarser)	Using Slip Gauge block Set & Comparator Stand by Comparison Method as per IS: 2092	0 to 25 mm	0.59 µm
314	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C.: 0.001 mm & coarser)	Using Dial Calibration Tester by Comparison Method as per IS: 2092	0 to 25 mm	1.48 µm
315	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial Gauge (L.C.: 0.01 mm & coarser)	Using Dial Calibration Tester & Slip Gauge block Set by Comparison Method as per IS: 2092	0 to 50 mm	3.75 µm
316	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge (Concave & Convex)	Using Profile Projector by Comparison Method	0.5 mm to 40 mm	5.51 µm



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317	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge/ Profile Gauge / Profile of Work Piece - Angle	Using Profile Projector by Direct Method	0 to 360 °	4.5 min of arc
318	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiving Gauge/ Profile Gauge / Profile of Work Piece - Radius	Using Profile Projector by Direct Method	0 to 100 mm	10 µm
319	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge (Fixed / Adjustable)	Using Slip Gauge block set by Comparison Method	100 mm to 300 mm	2.8 µm
320	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge / Gap Gauge (Fixed / Adjustable)	Using Slip Gauge block Set by Comparison Method	3 mm to 100 mm	1.42 µm
321	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foils	Using Digital Dial indicator with comparator by Comparison Method	0.01 mm to 2 mm	1.96 µm



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322	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism)	Using Gauge Block Set & Dial test indicator by Comparison Method	100 mm to 1000 mm	12.81 µm
323	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (straightness)	Using Gauge Block Set & Dial test indicator by Comparison Method	100 mm to 1000 mm	9.59 µm
324	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite / Cast Iron)	Using Spirit Level by Comparison Method	2000 mm X 2000 mm	1.4 x sqrt(L+B) / 150 µm, Where L & B in mm
325	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape & Scale Calibrator (L.C.: 0.001 mm)	Using Gauge Block Set & long slip by Comparison method	0 to 1000 mm	10.6 µm
326	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale (L.C.: 0.1 mm)	Using Profile Projector by Direct Method	0 to 200 mm	59 µm



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327	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template	Using Digital Vernier Caliper by Comparison Method	1 mm to 150 mm	17 micron
328	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Digital Caliper by Direct Method	10 mm to to 150mm	15.1µm
329	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves	Using Profile Projector by Comparison Method	0.03 mm to 10 mm	5.9 µm
330	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Digital Dial Indicator & Slip Gauge block Set by Comparison Method	0.17 mm to 6.35 mm	1 µm
331	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge	Using Profile Projector by Direct Method	55° & 60°	4.2 min of arc



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332	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Try Square / Engineer's Square (Straightness)	Using Lever Dial, Surface plate, Slip Gauge Blocks by Direct method	100 to 300 mm	6.1 µm
333	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Try Square/ Engineer's Square (Parallelism)	Using Lever Dial, Surface plate, Slip Gauge Blocks by Direct Method	100 mm to 300 mm	7 µm
334	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Try Square/ Engineer's Square (Squareness)	Lever Dial, Surface plate, Granite Square, Slip Gauge Blocks by direct method	100 mm to 300 mm	7.13 µm
335	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge (L.C.: 0.1 mm & Coarser)	Using Slip Gauge Block Set, Long slip by Comparison Method	0 to 300 mm	57.82 µm
336	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Flatness)	Using Slip Gauge Blocks, Lever Dial, Test Mandrel by Direct Method	25 mm to 250 mm	4 µm



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337	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism)	Using Slip Gauge Blocks, Lever Dial, Test Mandrel by Direct Method	25 mm to 250 mm	4.5 µm
338	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Squareness)	Using Granite Square, Slip Gauge Blocks, Lever Dial, Test Mandrel by Direct Method	25 mm to 250 mm	4 µm
339	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Symmetricity)	Using Slip Gauge Blocks, Lever Dial, Test Mandrel by Direct Method	25 mm to 250 mm	4.5 µm
340	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge (Radius, Linear)	Using Profile Projector by Comparison Method	Upto 200 mm	5.13 µm
341	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge / Weld Gauge / Hi-Lo Gauge / Bridge Cam Gauge / Chamfer Gauge - Angle	Using Profile Projector by Direct Method	1 ° to 90 °	4.2 min of arc



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342	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge / Weld Gauge / H/L Gauge / Bridge Cam Gauge / Chamfer Gauge - Length	Using Profile Projector by Direct Method	0 to 60 mm	8 µm
343	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Gauge / Weld Fillet Gauge (Scale / Depth)	Using Profile Projector by Comparison Method	Upto 60 mm	120 µm
344	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wet Film gauge	Using Profile Projector by direction method	0.01 mm to 3 mm	6 µm
345	MECHANICAL-DIMENSION BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Wire Gauge	Using Profile Projector by Direct Method	0.19 mm to 7.82 mm	7 µm
346	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Gauge Block Set & Long Slip gauge, Surface plate by Comparison Method	0 to 1000 mm	5.71 µm



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347	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (L.C.: 0.0001 mm & Coarser)	Using Slip Gauge block Set by Comparison Method	0 to 25 mm	1.2 µm
348	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Length bar	Using Digital Dial Indicator & Slip Gauge block Set by Comparison Method	100 mm to 300 mm	3.43 µm
349	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Length bar	Using Digital Dial Indicator & Slip Gauge block Set by Comparison Method	300 mm to 600 mm	7.1 µm
	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	LVDT Probe with DRO / Dial indicator (L.C.: 0.0001 mm & coarser)	Using Slip Gauge block Set & Comparator Stand by Comparison Method	0 to 25 mm	0.83 µm
351	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Rod	Using Slip Gauge Set, Digital Dial Indicator by Comparison Method	100 mm to 600 mm	12 µm
352	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Micrometer Setting Rod	Using Slip Gauge Block, Digital Dial indicator by Comparison Method	25 mm to 100 mm	4 µm
353	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Ocular / Graticule (L.C.: 1 °)	Using Profile Projector by Comparison Method	Angle : 360°	4.41 min of arc



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354	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Ocular / stage micrometer / Eye Piece Graticule (L.C.: 0.01 mm)	Using Profile Projector by Direct Method	0 to 100 mm	5.51 µm
355	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular (L.C.: 1 s)	Using Angle gauge by Comparison Method as per JIS B 7184	Upto 360 °	3.9 min of arc
356	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Slip gauge, Long Slip, Digital Caliper by Comparison Method JIS B 7184	10 X to 100 X	0.64%
357	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video Measuring System/ Microscope - Linear (L.C.: 0.0001 mm)	Using Slip Gauges & Long Slip Gauges by Comparison Method as per JIS B 7184	Upto 300 mm	5 µm
358	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure Analog / Digital Pressure Gauges, Pressure Transmitter with / without Indicator, Pressure Switches, Pressure Calibrators, Manometer, Barometer	Using Digital Pressure Indicator, Digital Multimeter by Comparison Method as per DKD-R 6-1	50 mbar to 1050 mbar	3 mbar



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359	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Pressure Gauge, Pressure Transmitter with or without Indicator / Pressure Switch, pressure Calibrator - Hydraulic	Using Digital Pressure Calibrator and hand pump comparator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 1000 bar	0.5 %rdg
360	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Pressure Gauge, Pressure Transmitter with or without Indicator / Pressure Switch, pressure Calibrator - Hydraulic	Using Digital Pressure Calibrator, Digital Multimeter and hand pump comparator by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.2 bar
361	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital, Vacuum Gauge, Vacuum Transmitter with or without Indicator, Vacuum Switch, Vacuum Calibrator, Manometer - Vacuum	Using Digital Manometer (DPG), Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 900 mbar	0.6 %rdg



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362	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Pressure Gauge, Magnehelic / Pressure Indicator / Controller / Transmitter / Switch, Comparison Method Manometer	Using Digital Manometer (DPG), Digital Multimeter, Vacuum pump by Comparison Method as per DKD-R 6-1	(-) 100 mbar to 100 mbar	0.072 mbar
363	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Pressure Gauge, Pressure Indicator / Controller / Transmitter with or without Indicator / Pressure Switch, pressure Calibrator, Manometer	Using Digital Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 2 bar	0.9 %rdg
364	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Pressure Gauge, Pressure Indicator / Controller / Transmitter with or without Indicator / Pressure Switch, pressure Calibrator, Manometer	Using Digital Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	2 bar to 40 bar	0.1 %rdg
365	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench - Torque Driver, Type - I Class B,C,D,E Type II, Class A,B,D,E	Using Torque Transducer With indicator of various capacities, Torque Calibration ring as per ISO 6789: 2017	10 Nm to 300 Nm	0.53 %rdg



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366	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench - Type - I Class B,C,D,E Type II, Class A,B,D,E	Using Torque Transducer With indicator of various capacities, Torque Calibration ring as per ISO 6789: 2017	300 Nm to 1000 Nm	0.53 %rdg
367	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Torque Driver, Type I Class B,C,D,E Type II Class A,B,D,E	Using Torque Transducer With indicator of various capacities, Torque Calibration ring as per Based on ISO 6789: 2017	0.1 Nm to 10 Nm	1.99 %rdg
368	MECHANICAL-VOLUME	Glassware - Measuring Cylinder, Pipette, Burette, Volumetric Flask, Beaker, Measuring Jar, Conical Flask	Using Precision Weighing Balance (Readability 0.001 g) and distilled water by Gravimetric Method as per ISO 4787: 2021	100 ml to 1000 ml	870 µl
369	MECHANICAL-VOLUME	Glassware - Measuring Cylinder, Pipette, Burette, Volumetric Flask, Beaker, Measuring Jar, Conical Flask, Crow Receiver, Specific Gravity Cup, Lechatelier Flask	Using Precision Weighing Balance (Readability 0.1 mg) and distilled water by Gravimetric Method as per ISO 4787: 2021	50 ml to 100 ml	95 µl



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370	MECHANICAL-VOLUME	Glassware - Measuring Cylinder, Pipette, Burette, Volumetric Flask, Beaker, Measuring Jar, Conical Flask, Crow Receiver, Specific Gravity Cup, Method as per ISO Lechatelier Flask, Centrifuge Filter Tube	Using Precision Weighing Balance (Readability 0.1 mg) and distilled water by Gravimetric Method as per ISO 4787: 2021	10 ml to 20 ml	30 µl
371	MECHANICAL-VOLUME	Glassware - Measuring Cylinder, Pipette, Burette, Volumetric Flask, Beaker, Measuring Jar, Conical Flask, Crow Receiver, Specific Gravity Cup, Method as per ISO Lechatelier Flask, Centrifuge Filter Tube.	Using Precision Weighing Balance (Readability 0.1 mg) and distilled water by Gravimetric Method as per ISO 4787: 2021	1 ml to 10 ml	0.6 µl



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372	MECHANICAL-VOLUME	Glassware - Measuring Cylinder, Pipette, Burette, Volumetric Flask, Beaker, Measuring Jar, Conical Flask, Crow Receiver, Specific Gravity Cup, Lechatelier Flask, Centrifuge Filter Tube.	Using Precision Weighing Balance with readability 0.1 mg as per ISO 4787:2021 by Gravimetric Method	20 ml to 50 ml	0.94 µl
373	MECHANICAL-VOLUME	Glassware - Measuring Cylinder, Volumetric Flask, Beaker, Measuring Jar, Conical Flask, Flask	Using Precision Weighing Balance (Readability 0.01 g) and distilled water by Gravimetric Method as per ISO 4787:2021	1000 ml to 4500 ml	1.6 ml
374	MECHANICAL-VOLUME	Micropipette	Using Precision Weighing Balance (Readability : 0.01 mg) and distilled water by Gravimetric Method as per ISO 8655-6 : 2022	20 µl to 100 µl	0.55 µl



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375	MECHANICAL-VOLUME	Micropipette	Using Precision Weighing Balance (Readability : 0.01 mg) and distilled water by Gravimetric Method as per ISO 8655-6 : 2022	100 µl to 1000 µl	5 µl
376	MECHANICAL-VOLUME	Micropipette	Using Precision Weighing Balance (Readability : 0.1 mg) and distilled water by Gravimetric Method as per ISO 8655-6 : 2022	1000 µl to 10000 µl	11.6 µl
377	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balance - Class I (Readability : 0.1 mg)	Using E2 Class Standard Weights as per OIML R 76-1	Upto 200 g	0.16 mg
378	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balance - Class II (Readability : 10 mg and coarser)	Using E2 & F1 Class Standard Weights as per OIML R 76-1	Upto 1000 g	13 mg
379	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balance - Class II (Readability : 100 mg)	Using F1 Class Standard Weights as per OIML R 76-1	Upto 20 kg	59.2 mg



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380	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balance - Class IIII (Readability : 20 g)	Using F1 & M1 Class Standard Weights as per OIML R 76-1	Upto 300 kg	13.2 g
381	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balance - Class IIII (Readability : 50 g and coarser)	Using M1 Class Standard Weights as per OIML R 76-1	Upto 1000 kg	200 g
382	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balance, class II, Readability : 10 mg	Using E2 & F1 Class Standard Weights as per OIML R 76-1	Upto 5 kg	10 mg
383	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R 111-1	1 g	0.015 mg
384	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R 111-1	10 g	0.022 mg
385	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R 111-1	100 g	0.1 mg



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386	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R 111-1	100 mg	0.012 mg
387	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R 111-1	2 g	0.016 mg
388	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R 111-1	20 g	0.026 mg
389	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg) by ABBA method as per OIML R 111-1	20 mg	0.012 mg
390	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R 111-1	200 mg	0.012 mg



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391	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R 111-1	5 g	0.019 mg
392	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R 111-1	50 g	0.05 mg
393	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R 111-1	50 mg	0.012 mg
394	MECHANICAL-WEIGHTS	Accuracy Class F1 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R 111-1	500 mg	0.013 mg
395	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1 Class Standard Weights and Micro Balance (Readability: 0.001 g)by ABBA method as per OIML R 111-1	1 kg	6 mg



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396	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R 11-1	1 mg	0.012 mg
397	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R 111-1	10 mg	0.012 mg
398	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1 Class Standard Weights and Micro Balance (Readability: 0.01 g) by ABBA method as per OIML R 111-1	2 kg	12 mg
399	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R 111-1	2 mg	0.012 mg
400	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1 Class Standard Weights and Micro Balance (Readability: 0.01 g)by ABBA method as per OIML R 111-1	5 kg	42 mg



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401	MECHANICAL-WEIGHTS	Accuracy Class F2 & Coarser	Using E2 Class Standard Weights and Micro Balance (Readability: 0.01 mg)by ABBA method as per OIML R 111-1	5 mg	0.012 mg
402	MECHANICAL-WEIGHTS	Accuracy class F2 & coarser	Using F1 Class Standard Weights and Micro Balance (Readability: 0.001 g) by ABBA method as per OIML R 111-1	500 g	3 mg
403	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1 Class Standard Weights and Micro Balance (Readability: 100 mg)by ABBA method as per OIML R 111-1	10 kg	110 mg
404	MECHANICAL-WEIGHTS	Accuracy class M1 & coarser	Using F1 Class Standard Weights and Micro Balance (Readability: 100 mg)by ABBA method as per OIML R 111-1	20 kg	110 mg
405	OPTICAL-EQUIPMENTS	Optical power level @ 1310 nm and 1550 nm	Using Optical power Meter by Direct Method / Comparison Method	(-) 10 dBm	0.84 dBm



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406	OPTICAL-EQUIPMENTS	Optical power level @ 850 nm and 1300M nm	Using Optical power eter by Direct Method/ Comparison Method	(-) 10 dBm	0.83 dBm
407	OPTICAL-OPTICAL	Lux Meter / Light Meter	Using Light Meter by Comparison Method	1 lux to 100 lux	13 %
408	OPTICAL-OPTICAL	Lux Meter / Light Meter	Using Light Meter by Comparison Method	100 lux to 1000 lux	7 %
409	OPTICAL-OPTICAL	Lux Meter / Light Meter	Using Light Meter by Comparison Method	1000 lux to 40000 lux	7 %
410	OPTICAL-OPTICAL	Lux Meter / Light Meter	Using Light Meter by Comparison Method	40000 lux to 42000 lux	10 %
411	THERMAL-SPECIFIC HEATH & HUMIDITY	Digital / Analog Thermo Hygrometer, Hygrometer, Hygrographs, Humidity Sensor, Data Logger, Temperature & Humidity Transmitter	Using Digital Thermohygrometer with Humidity Chamber by Comparison Method	15 %rh to 95 %rh @ 25 °C	1.51 %rh
412	THERMAL-SPECIFIC HEATH & HUMIDITY	Digital / Analog Thermo Hygrometers (temperature only), Hygrographs(tempertem ature only), Data Logger (built in sensor), Humidity (built-in sensor)	Using Thermo-Hygrometer with Chamber by Comparison Method	5 °C to 60 °C @ 500.4 °C %rh	



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413	THERMAL-SPECIFIC HEATH & HUMIDITY	Environmental Chamber and Humidity Chamber - Multi-Position calibration	Using Temperature Humidity Datalogger (minimum 9 sensors) By Comparison Method	30 %rh to 95 %rh @ 20 °C to 50 °C	2.84 %rh
414	THERMAL-SPECIFIC HEAT/ & HUMIDITY	Humidity Sensor of Indicator / Controller Recorder/ Chamber / Environmental Chamber - single Position Calibration	Using Digital Thermohygrometer by Comparison Method	15 %rh to 95 %rh @ 20 °C to 50 °C	0.9 %rh
415	THERMAL-TEMPERATURE	Infrared / Non-Contact Thermometer (for non medical purpose only)	Using Non-Contact Pyrometer (Emissivity @ 0.95), Black Body Source by Comparison Method	50 °C to 500 °C	2.64 °C
416	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SSPRT Sensor with Digital Multimeter, Ultra low(-) 80 °C to 30 °C liquid bath by Comparison Method	Using SSPRT Sensor	0.6 °C
417	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	with Digital Multimeter, Oil bath by Comparison Method	30 °C to 250 °C	0.72 °C



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418	THERMAL-TEMPERATURE	RTD / TC with or without Indicator, Thermistor with indicator, Temperature Recorder / Datalogger / Gauge, Switch /Transmitter	Using SSPRT Sensor with Digital Multimeter & Ultra low liquid bath by Comparison Method	(-) 80 °C to 30 °C	0.15 °C
419	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator, Temperature Datalogger with sensor, Temperature Gauge, Temperature Transmitter with sensor, Temperature switch	Using SSPRT Sensor with Digital Multimeter, MFC & Dry block Calibrator by Comparison Method	250 °C to 400 °C	0.13 °C
420	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator, Temperature Datalogger with sensor, Temperature Gauge, Temperature Transmitter with sensor, Temperature switch	Using SSPRT Sensor with Digital Multimeter, MFC & Dry block Calibrator by Comparison Method	400 °C to 650 °C	0.23 °C



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421	THERMAL-TEMPERATURE	RTD/Thermocouple with/without Indicator, Temperature Datalogger with sensor, Temperature Gauge, Temperature Transmitter with sensor, Temperature switch	Using SSPRT Sensor with Digital Multimeter, MFC, liquid nitrogen bath Comparison Method	(-) 196 °C	0.15 °C
422	THERMAL-TEMPERATURE	Temperature Indicator of Bath, Dry Block Calibrator - Single Position calibration	Using R-Type Thermocouple with Indicator by Comparison Method	650 °C to 1200 °C	1.96 °C
423	THERMAL-TEMPERATURE	Temperature Indicator sensor of Bath, Dry Block Calibrator - Single Position calibration	Using SSPRT Sensor with Digital Multimeter by Comparison Method	(-) 80 °C to 0 °C	0.17 °C
424	THERMAL-TEMPERATURE	Temperature Indicator sensor of Bath, Dry Block Calibrator - Single Position calibration	Using SSPRT Sensor with Digital Multimeter by Comparison Method	200 °C to 650 °C	0.16 °C
425	THERMAL-TEMPERATURE	Temperature Indicator sensor of Bath, Dry Block Calibrator - Single Position calibration	Using SSPRT Sensor with Digital Multimeter by Comparison Method	0 °C to 200 °C	0.08 °C



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426	HERMAL-TEMPERATURE	Temperature Indicator with sensor or Black Body Source - Single Position calibration	(Emissivity @ 0.95) Using Pyrometer by Comparison Method	50 °C to 500 °C	2.64 °C
427	HERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven, Furnace, Bath, Environmental Chamber - Single Position Calibration	Using R-Type Thermocouple with Indicator by Comparison Method	400 °C to 1200 °C	1.65 °C
428	HERMAL-TEMPERATURE	Thermocouple with or without Indicator, Temperature Recorder/ Datalogger/ Gauge, Switch /Transmitter	Using R-Type Thermocouple with indicator, MFC &b Dry bath calibrator by Comparison Method	650 °C to 1200 °C	1.85 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Active Power @ 50 Hz (10 V to 600 V, 0.01 A to 10 A, 0.5(Lead & Lag) to UPF)	Using Three Phase Calibration Meter and Source By Direct / Comparison Method	1 W to 4.5 kW	0.27 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase Active Energy @ 50 Hz (100 V to 600 V, 0.5 A to 20 A, 0.5(Lead & Lag) to UPF)	Using Three Phase Calibration Meter and Source By Direct / Comparison Method	1 Wh to 2 kWh	0.15 % to 0.11 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 3 Wire / 4 Wire, Active Energy @ 50 Hz (63.5 V to 240 V, 0.01 A to 20 A, 0.5(Lead & Lag) to UPF)	Using Three Phase Calibration Meter and Source By Direct / Comparison Method	100 mW to 20 kW	0.27 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 3 Wire / 4 Wire, Active Energy @ 50 Hz (63.5 V to 240 V, 0.01 A to 20 A, 0.5(Lead & Lag) to UPF)	Using Three Phase Calibration Meter and Source By Direct / Comparison Method	100 mWh to 20 kWh	0.3 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Capacitance @ 100 Hz	Using LCR Meter by Direct Method	1000 nF to 10 mF	0.06 % to 0.12 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Capacitance @1 kHz	Using LCR Meter by Direct Method	1 pF to 100 µF	0.06 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to 10 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	10 mA to 1 A	0.07 % to 0.12 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 mA to 10 mA	0.28 % to 1.21 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	10 mA to 100 mA	1.21 % to 0.23 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	100 µA to 1 mA	1.22 % to 0.54 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	30 µA to 100 µA	0.89 % to 1.22 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 A to 3 A	0.17 % to 0.36 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	3 A to 10 A	0.27 % to 0.4 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	1 mA to 30 A	0.04 % to 0.07 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	10 µA to 1 mA	0.28 % to 0.04 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method:	100 mA to 500 mA	0.26 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	500 mA to 1 A	0.26 % to 0.17 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using High voltage Probe with Digital multimeter and HV Source Direct/ Comparison Method	1 kV to 28 kV	4.35 % to 4.68 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1 kHz	Using LCR Meter by Direct Method	1 ohm to 10 kohm	0.06 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 20 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	1 mV to 100 mV	0.7 % to 0.035 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 20 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	10 V to 200 V	0.023 % to 0.03 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 20 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	100 mV to 10 V	0.035 % to 0.014 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 V to 10 V	0.21 % to 0.13 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	10 V to 100 V	0.13 % to 0.1 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	100 mV to 1 V	0.12 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 mV to 100 mV	1.92 % to 0.12 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 6½ Digit DMM & MPC by Direct / Comparison Method	100 V to 1000 V	0.1 % to 0.096 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40 Hz to 1 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	10 V to 1000 V	0.016 % to 0.018 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40 Hz to 1 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	100 mV to 10 V	0.017 % to 0.015 %



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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40Hz to 1 kHz	Using 8½ Digit DMM & MPC by Direct / Comparison Method	1 mV to 100 mV	0.73 % to 0.017 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @1 kHz	Using LCR Meter by Direct Method	100 µH to 10 H	0.12 % to 0.15 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz (10 V to 600 V, 0.01 A to 10 A)	Using Three Phase Calibration Meter and Source By Direct / Comparison Method	0.2 (Lead/Lag) to UPF	0.002
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using MPC by Direct Method	2.99 A to 10 A	0.21 % to 0.12 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 10 kHz	Using MPC by Direct Method	1 A to 2.99 A	0.25 % to 0.21 %



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35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 10 kHz	Using MPC by Direct Method	3.2 mA to 32 mA	0.24 % to 0.11 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 10 kHz	Using MPC by Direct Method	30 µA to 3.2 mA	0.21 % to 0.24 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 10 kHz	Using MPC by Direct Method	32 mA to 320 mA	0.11 % to 0.21 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 10 kHz	Using MPC by Direct Method	320 mA to 1 A	0.21 % to 0.25 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using MPC with Current Coil by Direct Method	10 A to 550 A	0.035 % to 0.4 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Ac Voltage @ 40 Hz to 1 kHz	Using MPC by Direct Method	1 mV to 32 mV	0.46 %



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41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using MPC by Direct Method	32 V to 320 V	0.066 % to 0.059 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using MPC by Direct Method	320 V to 990 V	0.059 % to 0.06 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Ac Voltage @ 45 Hz to 1 kHz	Using MPC by Direct Method	990 V to 1000 V	0.062 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 20 kHz	Using MPC by Direct Method	3.2 V to 32 V	0.06 % to 0.09 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 20 kHz	Using MPC by Direct Method	32 mV to 320 mV	0.24 % to 0.06 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 20 kHz	Using MPC by Direct Method	320 mV to 3.2 V	0.06 %



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47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using MPC by Direct Method	1.0999 $\mu$ F to 3.2999 $\mu$ F	0.5 % to 0.39 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using MPC by Direct Method	0.5 nF to 1.0999 nF	3.8 % to 2.06 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using MPC by Direct Method	10.999 nF to 32.999 nF	0.61 % to 0.78 %
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using MPC by Direct Method	110 nF to 329.99 nF	0.47 % to 0.39 %
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using MPC by Direct Method	3.2999 nF to 10.999 nF	1.12 % to 0.61 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using MPC by Direct Method	1.0999 nF to 3.2999 nF	2.06 % to 1.12 %



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53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using MPC by Direct Method	32.999 nF to 110 nF	0.78 % to 0.47 %
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using MPC by Direct Method	10.999 $\mu$ F to 32.999 $\mu$ F	0.39 % to 0.67 %
55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using MPC by Direct Method	3.2999 $\mu$ F to 10.999 $\mu$ F	0.39 %
56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using MPC by Direct Method	32.999 $\mu$ F to 109.99 $\mu$ F	0.67 % to 0.77 %
57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using MPC by Direct Method	329.99 nF to 1.0999 $\mu$ F	0.39 % to 0.5 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductance Box by Direct Method	10 $\mu$ H to 10 H	0.76 % to 0.5 %



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59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50Hz (10 V to 600 V, 0.2 A to 10 A)	Using MPC by Direct Method	0.2 lag to UPF	0.003 PF
60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50Hz (10 V to 600 V, 0.2 A to 10 A)	Using MPC by Direct Method	0.2 Lead to UPF	0.003 PF
61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Active Power @ 50 Hz (10 V to 1000 V, 0.01 A to 11 A, UPF)	Using MPC by Direct Method	1 W to 6 kW	0.34 % to 0.12 %
62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase AC Active Power @ 50 Hz (10 V to 600 V, 0.2 A to 10 A, 0.5(lag/lead) to UPF)	Using MPC by Direct Method	1 W to 3 kW	1.14 % to 1.13 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Capacitance	Using 6½ Digit DMM by Direct Method	1 nF to 10 µF	1.05 % to 1.2 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	10 mA to 100 mA	0.081 % to 0.063 %



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65	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	3 A to 10 A	0.14 % to 0.18 %
66	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 A to 3 A	0.082 % to 0.14 %
67	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 mA to 10 mA	0.064 % to 0.081 %
68	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	100 µA to 1 mA	0.089 % to 0.064 %
69	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	400 mA to 1 A	0.066 % to 0.082 %
70	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM with shunt DC Current source by V/I Method	0.1 A to 250 A	0.05 %



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71	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit DMM & MPC by Direct / Comparison Method	1 µA to 100 µA	0.062 % to 0.011 %
72	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	10 µA to 100 µA	0.4 % to 0.9 %
73	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit DMM & MPC by Direct / Comparison Method	100 µA to 20 A	0.011 % to 0.028 %
74	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM & MPC by Direct / Comparison Method	100 mA to 500 mA	0.063 % to 0.066 %
75	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit DMM & MPC by Direct / Comparison Method	100 nA to 1 µA	7.04 % to 0.7 %
76	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit DMM & MPC by Direct / Comparison Method	20 A to 30 A	0.0042 % to 0.016 %



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77	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC High Voltage	Using High voltage Probe with Digital multimeter and HV Source by Comparison Method	5 kV to 40 kV	4.62 % to 4.46 %
78	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC High Voltage	Using High voltage Probe with Digital multimeter and HV Source by Comparison Method	1 kV to 5 kV	4.83 % to 4.62 %
79	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Power (10 V to 1000 V, 0.1 A to 10 A)	Using Three Phase Calibration Meter and Source By Direct / Comparison Method	1 W to 10 kW	0.23 %
80	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Power (10V to 1000 V, 0.01 A to 20 A)	Using Three Phase Calibration Meter and Source By Direct / Comparison Method	100 mW to 20 kW	8.8 % to 0.18 %
81	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Resistance ( 4 Wire)	Using 8½ Digit DMM by Direct Method	1 ohm to 1 kohm	0.0015 % to 0.06 %
82	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 8½ Digit DMM by Direct Method	10 Gohm to 20 Gohm	0.35 % to 0.44 %



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83	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 8½ Digit DMM100 Mohm to 10 Gohm by Direct Method		0.35 % to 0.18 %
84	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Resistance (2wire) @ upto 1000V	Using 8½ Digit DMM100 & MPC by V/I Method	1 kohm to 100 Gohm	0.004 % to 6.94 %
85	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ Digit DMM by Direct Method	1 kohm to 100 Mohm	0.06 % to 0.014 %
86	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Resistance (4 Wire)	Using 8½ Digit DMM by Direct Method	1 mohm to 1 ohm	0.48 % to 0.06 %
87	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Resistance (4Wire)	Using 8½ Digit DMM & MPC by V/I Method	1 mohm to 1 ohm	0.07 % to 0.06 %
88	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Resistance (4Wire)	Using 8½ Digit DMM & MPC by V/I Method	20 µohm to 1 mohm	0.033 % to 0.07 %



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89	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 mV to 100 mV	0.051 % to 0.0091 %
90	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM & MPC by Direct / Comparison Method	1 V to 10 V	0.0039 % to 0.0035 %
91	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM & MPC by Direct / Comparison Method	10 V to 100 V	0.0035 % to 0.0053 %
92	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM & MPC by Direct / Comparison Method	100 mV to 1 V	0.0091 % to 0.0039 %
93	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM & MPC by Direct / Comparison Method	100 V to 1000 V	0.0053 % to 0.0061 %
94	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit DMM & MPC by Direct / Comparison Method	1 mV to 10 V	0.012 % to 0.0005 %



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95	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit DMM & Dc Source by Direct / Comparison Method	10 µV to 1 mV	4.82 % to 0.041 %
96	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit DMM & MPC by Direct / Comparison Method	10 V to 1000 V	0.00034 % to 0.0009 %
97	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 6½ Digit DMM by Direct Method	100 Mohm to 1 Gohm	0.95 % to 2.32 %
98	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digit DMM by Direct Method	10 Mohm to 100 Mohm	0.049 % to 0.95 %
99	ELECTRO-TECHNICAL - DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digit DMM by Direct Method	1 ohm to 10 ohm	0.36 % to 0.046 %
100	ELECTRO-TECHNICAL DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digit DMM by Direct Method	100 ohm to 1 kohm	0.016 % to 0.012



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101	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4wire)	Using 6½ Digit DMM by Direct Method	10 ohm to 100 ohm	0.046 % to 0.016 %
102	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4wire)	Using 6½ Digit DMM by Direct Method	1 kohm to 10 kohm	0.012 %
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4Wire)	Using 6½ Digit DMM by Direct Method	1 Mohm to 10 Mohm	0.013 % to 0.049 %
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4wire)	Using 6½ Digit DMM by Direct Method	10 kohm to 100 kohm	0.012 %
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4wire)	Using 6½ Digit DMM by Direct Method	100 kohm to 1 Mohm	0.012 % to 0.013 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MPC by Direct Method	1 A to 2.99 A	0.053 % to 0.046 %



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107	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MPC by Direct Method	2.99 A to 10 A	0.046 % to 0.077 %
108	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MPC by Direct Method	3.2 mA to 32 mA	0.017 % to 0.014 %
109	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MPC by Direct Method	32 mA to 320 mA	0.014 % to 0.012 %
110	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MPC by Direct Method	320 mA to 1 A	0.012 % to 0.053 %
111	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MPC by Direct Method	1 µA to 3.2 mA	0.87 % to 0.017 %
112	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MPC with 50 turns Current Coil by Direct Method	10 A to 550 A	0.035 % to 0.5 %



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113	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MPC by Direct Method	1 mV to 330 mV	0.12 % to 0.008 %
114	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MPC by Direct Method	3.3 V to 1000 V	0.006 %
115	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MPC by Direct Method	330 mV to 3.3 V	0.008 % to 0.006 %
116	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using MPC by Direct Method	32.9 Mohm to 109.9 Mohm	0.13 % to 0.69 %
117	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using MPC by Direct Method	329.9 Mohm to 1100 Mohm	0.62 % to 1.78 %
118	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using MPC by Direct Method	1 Mohm to 3.2 Mohm	0.023 % to 0.021 %



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119	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using MPC by Direct Method	10.9 Mohm to 32.9 Mohm	0.07 % to 0.13 %
120	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using MPC by Direct Method	109.9 ohm to 329.9 ohm	0.02 % to 0.018 %
121	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using MPC by Direct Method	3.2 Mohm to 10.9 Mohm	0.021 % to 0.07 %
122	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using MPC by Direct Method	329.9 Kohm to 1 Mohm	0.018 % to 0.023 %
123	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5 kV	Using Standard Resistance Box by Direct Method	1 Gohm	2.4 %
124	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5 kV	Using Standard Resistance Box by Direct Method	1 Tohm	5.9 %



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125	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire) @ 5 kV	Using Standard Resistance Box by Direct Method	10 Gohm	2.5 %
126	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2Wire) @ 5 kV	Using Standard Resistance Box by Direct Method	100 Gohm	2.5 %
127	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	1 kohm to 3.2 kohm	0.014 % to 0.02 %
128	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	1 ohm to 10.9 ohm	1.17 % to 0.12 %
129	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	3.2 kohm to 10.9 kohm	0.02 % to 0.01 %
130	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	32.9 kohm to 109.9 kohm	0.022 % to 0.015 %



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131	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	32.9 ohm to 109.9 ohm	0.06 % to 0.02 %
132	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	10.9 kohm to 32.9 kohm	0.01 % to 0.022 %
133	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	10.9 ohm to 32.9 ohm	0.12 % to 0.06 %
134	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using MPC by Direct Method	109.9 kohm to 300 kohm	0.015 % to 0.018%
135	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4Wire)	Using Standard Resistance Box by Direct Method	10 Mohm	1.35 %
136	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4Wire)	Using Standard Resistance Box by Direct Method	100 Mohm	1.3 %



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137	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4wire)	Using MPC by Direct Method	329.9 ohm to 1 kohm	0.01 % to 0.014 %
138	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - AC Amplitude @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	5 mV to 105 V	0.29 %
139	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - BandWidth	Using Signal Generator by Direct Method	300 MHz to 3 GHz	5 %
140	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - BandWidth	Using Multi Product Calibrator by Direct Method	50 kHz to 300 MHz	2 % to 5 %
141	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - DC Amplitude	Using Multi Product Calibrator by Direct Method	5 mV to 33 V	0.29 %
142	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - DC Amplitude	Using Multi Product Calibrator by Direct Method	(-) 5 mV to (-) 33 V	0.06 %



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143	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time Base	Using Multi Product Calibrator by Direct Method	50 ns to 5 s	0.028 % to 0.21 %
144	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Amplitude Modulation (CF: 10 MHz to 1.3 GHz) @ Mod rate: 1 kHz	Using Spectrum Analyzer by Direct Method	10 % to 90 %	2.85 % to 4.5 %
145	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency	Using Frequency Counter & Multiproduct calibrator by Direct / Comparison Method	100 Hz to 10 kHz	0.001 %
146	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency Modulation (CF:10 MHz to 1.3GHz) @ Mod rate:1 kHz	Using Spectrum Analyzer and Signal generator by Direct / Comparison Method	10 kHz to 100 kHz	2.94 %
147	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency	Using Frequency Counter & Digital Multimeter by Direct / Comparison Method	1 Hz to 100 Hz	0.016 % to 0.001 %



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148	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency	Using Frequency Counter/Counter power meter and signal generator by Direct / Comparison Method Using Network Analyzer, Cal Kit	10 kHz to 40 GHz	0.0001 % to 0.000019 %
149	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Reflection Coefficient / Voltage Standing Wave Ratio @ 9 kHz to 26.5 GHz	Termination by Comparison Method	0.024 rho to 0.33 rho	2.58 % to 9 %
150	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Microwave Power Loss, Attenuation (9 kHz to 26.5 GHz) Attenuation, Insertion Loss, Return Loss, Coupling Loss, Decoupling Loss, Isolation Loss @ 50 ohm	Using Vector Network Analyzer by Direct Method	1 ohm to 300 ohm	3.2 %



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151R	ELECTRO-TECHNICAL-F/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Microwave Power Loss, Attenuation @ 9 kHz to 18 GHz Attenuation, Insertion Loss, Return Loss, Coupling Loss, Decoupling Loss, Isolation Loss, Voltage Division Factor, VSWR	Using Network Analyser by Direct Method	0 dB to 60 dB	0.91 dB
152R	ELECTRO-TECHNICAL-F/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power @ 10 MHz to 18 GHz	Using Power Meter with sensor and signal generator by Direct / Comparison Method	(-) 10 dBm to 13 dBm	0.42 dBm to 0.4 dBm
153R	ELECTRO-TECHNICAL-F/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power @ 10 MHz to 18 GHz	Using Power Meter with sensor and signal generator by Direct / Comparison Method	(-) 60 dBm to (-) 10 dBm	0.52 dBm to 0.45 dBm
154R	ELECTRO-TECHNICAL-F/MICROWAVE (1 GHZ AND ABOVE) (Source)	Amplitude Modulation (CF : 10 MHz to 1.3 GHz) @ Mod rate : 1 kHz	Using Signal Generator by Direct Method	5 % to 95 %	2.85 % to 3.95 %



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155	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency Modulation (CF : 10 MHz to 1.3 GHz) @ Mod rate : 1 kHz	Using Signal Generator by Direct Method	10 kHz to 100 kHz	2.99 %
156	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency	Using Signal Generator by Direct Method	250 kHz to 3 GHz	0.00058 % to 0.0001 %
157	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Frequency	Using Signal Generator by Direct Method	3 GHz to 20 GHz	0.0001 % to 0.0019 %
158	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power @ 250 kHz to 3 GHz	Using Signal Generator by Direct Method	(-) 60 dBm to 13 dbm	0.5 dBm
159	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Power @ 3 GHz to 18 GHz	Using Signal Generator by Direct Method	(-) 60 dbm to 10 dBm	0.46 dBm



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160	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using MPC by Direct Method	(-) 150 °C to 0 °C	0.28 °C
161	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using MPC by Direct Method	(-) 250 °C to (-) 150 °C	0.73 °C
162	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using 8½ Digit DMM by Direct Method	100 °C to 1800 °C	0.1 °C
163	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Using MPC by Direct Method	600 °C to 1800 °C	0.45 °C
164	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 1000 °C	0.19 °C
165	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using MPC by Direct Method	(-) 250 °C to (-) 100 °C	0.58 °C

ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)



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166	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using 8½ Digit DMM(-) by Direct Method	250 °C to 1000 °C	0.014 °C
167	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using MPC by Direct Method	760 °C to 1000 °C	0.2 °C
168	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using 8½ Digit DMM(-) by Direct Method	200 °C to 1200 °C	0.017 °C
169	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 760 °C	0.17 °C
170	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using 8½ Digit DMM(-) by Direct Method	200 °C to 1350 °C	0.02 °C
171	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using MPC by Direct Method	1000 °C to 1372 °C	0.3 °C



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172	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to (-) 100 °C	0.21 °C
173	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 1000 °C	0.19 °C
174	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using 8½ Digit DMM(-) by Direct Method	200 °C to 1300 °C	0.02 °C
175	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 1300 °C	0.21 °C
176	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to (-) 100 °C	0.46 °C
177	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using MPC by Direct Method	0 °C to 250 °C	0.66 °C

ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)



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178	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using MPC by Direct Method	400 °C to 1767 °C	0.38 °C
179	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using 8½ Digit DMM by Direct Method	0 °C to 1750 °C	0.09 °C
180	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using MPC by Direct Method	250 °C to 400 °C	0.4 °C
181	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using 6½ Digit DMM by Direct Method	(-) 200 °C to 300 °C	0.12 °C
182	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using 6½ Digit DMM by Direct Method	600 °C to 800 °C	0.26 °C
183	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using 8½ Digit DMM by Direct Method	(-) 200 °C to 800 °C	0.06 °C

ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)



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184	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using MPC by Direct Method	0 °C to 250 °C	0.54 °C
185	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using MPC by Direct Method	250 °C to 1767 °C	0.43 °C
186	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using 8½ Digit DMM by Direct Method	0 °C to 1750 °C	0.09 °C
187	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using MPC by Direct Method	0 °C to 400 °C	0.17 °C
188	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using 8½ Digit DMM by Direct Method	(-) 250 °C to 400 °C	0.02 °C
189	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple	Using MPC by Direct Method	(-) 210 °C to (-) 100 °C	0.31 °C



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190	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using MPC by Direct Method	100 °C to 600 °C	0.17 °C
191	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using MPC by Direct Method	600 °C to 1800 °C	0.45 °C
192	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using MPC by Direct Method	100 °C to 1800 °C	0.17 °C
193	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using MPC by Direct Method	(-) 250 °C to (-) 100 °C	0.58 °C
194	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 1000 °C	0.19 °C
195	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using MPC by Direct Method	(-) 250 °C to 1000 °C	0.1 °C



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196	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to 1200 °C	0.1 °C
197	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 760 °C	0.17 °C
198	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using MPC by Direct Method	760 °C to 1050 °C	0.2 °C
199	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to (-) 100 °C	0.31 °C
200	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to (-) 100 °C	0.38 °C
201	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using MPC by Direct Method	1000 °C to 1350 °C	0.3 °C



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202	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 1000 °C	0.19 °C
203	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to 1350 °C	0.11 °C
204	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using MPC by Direct Method	(-) 100 °C to 1300 °C	0.21 °C
205	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to (-) 100 °C	0.46 °C
206	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to 1300 °C	0.11 °C
207	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using MPC by Direct Method	0 °C to 1750 °C	0.18 °C



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208	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using MPC by Direct Method	0 °C to 250 °C	0.66 °C
209	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using MPC by Direct Method	250 °C to 400 °C	0.4 °C
210	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using MPC by Direct Method	400 °C to 1750 °C	0.38 °C
211	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using MPC by Direct Method	(-) 200 °C to 100 °C	0.058 °C
212	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using MPC by Direct Method	100 °C to 300 °C	0.08 °C
213	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using MPC by Direct Method	300 °C to 630 °C	0.11 °C



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214	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using MPC by Direct Method	630 °C to 800 °C	0.15 °C
215	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using MPC by Direct Method	250 °C to 1767 °C	0.43 °C
216	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using MPC by Direct Method	0 °C to 250 °C	0.54 °C
217	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using MPC by Direct Method	0 °C to 1750 °C	0.2 °C
218	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to (-) 150 °C	0.73 °C
219	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using MPC by Direct Method	0 °C to 400 °C	0.17 °C



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220	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using MPC by Direct Method	(-) 150 °C to 0 °C	0.28 °C
221	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using MPC by Direct Method	(-) 200 °C to 400 °C	0.036 °C
222	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit DMM & MPC by Direct / Comparison Method	10 Hz to 40 Hz	0.16 % to 0.08 %
223	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit DMM & MPC by Direct / Comparison Method	3 Hz to 5 Hz	0.22 %
224	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit DMM & MPC by Direct / Comparison Method	300 kHz to 1000 kHz	0.022 %
225	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit DMM & MPC by Direct / Comparison Method	5 Hz to 10 Hz	0.22 % to 0.16 %



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226	ELECTRO-TECHNICAL - TIME & FREQUENCY (Measure)	Time Interval	Using Digital Timer by Comparison Method	10000 s to 86400 s	0.5 s
227	ELECTRO-TECHNICAL TIME & FREQUENCY (Measure)	Time Interval	Using Digital Timer by Comparison Method	1 s to 10 s	0.11 s
228	ELECTRO-TECHNICAL - TIME & FREQUENCY (Measure)	Time Interval	Using Digital Timer by Comparison Method	10 s to 100 s	0.163 s
229	ELECTRO-TECHNICAL TIME & FREQUENCY (Measure)	Time Interval	Using Digital Timer by Comparison Method	100 s to 1000 s	0.23 s to 0.5 s
230	ELECTRO-TECHNICAL - TIME & FREQUENCY (Measure)	Time Interval	Using Digital Timer by Comparison Method	1000 s to 10000 s	0.5 s
231	ELECTRO-TECHNICAL TIME & FREQUENCY (Source)	Frequency	Using MPC by Direct Method	11.999 kHz to 119.9 kHz	0.006 %



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232	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MPC by Direct Method	119.9 kHz to 1199.9 kHz	0.006 % to 0.004 %
233	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MPC by Direct Method	119.99 Hz to 1199.9 Hz	0.006 % to 0.004 %
234	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MPC by Direct Method	1199.9 Hz to 11.999 kHz	0.006 %
235	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using MPC by Direct Method	1199.9 kHz to 2 MHz	0.004 %
236	FLUID FLOW-FLOW MEASURING DEVICES	Analog / Digital Flow meter and rotameter (Air Medium)	Using Gas flow Calibrator by Comparison Method	1 lpm to 100 lpm	0.89 %
237	FLUID FLOW-FLOW MEASURING DEVICES	Analog / Digital Flow meter and rotameter (Air Medium)	Using Gas flow Calibrator by Comparison Method	60 cc/min to 10000 cc/min	0.97 %



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238	FLUID FLOW- FLOW MEASURING DEVICES	Liquid Flow Meter - Volume Flow rate (Water Medium)	Using Ultrasonic Clamp on Liquid Flow Meter by Comparison Method	1 m <sup>3</sup> /hr to 246 m <sup>3</sup> /hr	2.62 %rdg
239	MECHANICAL- ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Contact Type	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	2.4 rpm
240	MECHANICAL- ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Contact Type	Using Digital Tachometer by Comparison Method	1000 rpm to 4000 rpm	9.6 rpm
241	MECHANICAL- ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Contact Type	Using Digital Tachometer by Comparison Method	4000 rpm to 8000 rpm	9.6 rpm
242	MECHANICAL- ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Contact Type	Using Digital Tachometer by Comparison Method	6 rpm to 100 rpm	1.017 rpm



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243	MECHANICAL-ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	100 rpm to 1000 rpm	2.7 rpm
244	MECHANICAL-ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	1000 rpm to 10000 rpm	9.6 rpm
245	MECHANICAL-ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	10000 rpm to 20000 rpm	18.12 rpm
246	MECHANICAL-ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	20000 rpm to 50000 rpm	31.77 rpm
247	MECHANICAL-ACCELERATION AND SPEED	Speed Meter, RPM Meter, RPM Indicators of Centrifuge, RPM Source /Calibrator - Non Contact Type	Using Digital Tachometer by Comparison Method	50000 rpm to 90000 rpm	57.23 rpm



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248	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Non-Contact Type)	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	10000 rpm to 20000 rpm	18.12 rpm
249	MECHANICAL-ACCELERATION AND SPEED	Tachometers (Contact Type)	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	100 rpm to 1000 rpm	1.2 rpm
250	MECHANICAL-ACCELERATION AND SPEED	Tachometers (Non-Contact Type)	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	1000 rpm to 10000 rpm	9.6 rpm
251	MECHANICAL-ACCELERATION AND SPEED	Tachometers - Contact Type	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	1000 rpm to 4000 rpm	9.6 rpm
252	MECHANICAL-ACCELERATION AND SPEED	Tachometers - Contact Type	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	6 rpm to 100 rpm	1.01 rpm
253	MECHANICAL-ACCELERATION AND SPEED	Tachometers - Contact Type	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	4000 rpm to 8000 rpm	8.73 rpm



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254	MECHANICAL-ACCELERATION AND SPEED	Tachometers - Non-Contact Type	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	6 rpm to 100 rpm	1.01 rpm
255	MECHANICAL-ACCELERATION AND SPEED	Tachometers - Non-Contact Type	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	100 rpm to 1000 rpm	2.7 rpm
256	MECHANICAL-ACCELERATION AND SPEED	Tachometers - Non-Contact Type	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	20000 rpm to 50000 rpm	31.76 rpm
257	MECHANICAL-ACCELERATION AND SPEED	Tachometers - Non-Contact Type	Using Digital Tachometer and Tachometer Calibrator by Comparison Method	50000 rpm to 90000 rpm	53.7 rpm
258	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Granite / Cast Iron)	Using Spirit Level by Comparison Method	2000 mm X 2000 mm	1.4 x sqrt(L+B) / 150 µm, Where L & B in mm



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259	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tape & Scale Calibrator (L.C.: 0.001 mm)	Using Gauge Block Set & long slip by Comparison method	0 to 1000 mm	10.6 µm
260	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester (L.C.: 0.0001 mm & Coarser)	Using Slip Gauge block Set by Comparison Method	0 to 25 mm	1.2 µm
261	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular (L.C.: 1 s)	Using Angle gauge by Comparison Method as per JIS B 7184	Upto 360 °	3.9 min of arc
262	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Magnification	Using Slip gauge, Long Slip, Digital Caliper by Comparison Method JIS B 7184	10 X to 100 X	0.64%
263	MECHANICAL- DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video Measuring System/ Microscope Linear (L.C.: 0.0001 mm)	Using Slip Gauges & Long Slip Gauges by Comparison Method as per JIS B 7184	Upto 300 mm	5 µm



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264	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure Analog / Digital Pressure Gauges, Pressure Transmitter with / without Switches, Pressure Manometer, Barometer	Using Digital Pressure Indicator, Digital Multimeter by Comparison Method as per DKD-R 6-1	50 mbar to 1050 mbar	3 mbar
265	MECHANICAL-PRESSURE INDICATING DEVICES	with or without Indicator / Pressure Switch, pressure Calibrator - Hydraulic	Using Digital and hand pump comparator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 1000 bar	0.5 %rdg
266	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital Pressure Gauge, Pressure Transmitter with or without Indicator / Pressure Switch, pressure Calibrator - Hydraulic	Using Digital Pressure Calibrator, Digital Multimeter and hand pump comparator by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.2 bar



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267	MECHANICAL-PRESSURE INDICATING DEVICES	Analog / Digital, Vacuum Gauge, Vacuum Transmitter with or without Indicator, Vacuum Switch, Vacuum Calibrator, Manometer - Vacuum	Using Digital Manometer (DPG), Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 900 mbar	0.6 %rdg
268	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Pressure Gauge, Magnehelic / Pressure Indicator / Controller / Transmitter / Switch, Manometer	Using Digital Manometer (DPG), Digital Multimeter, Vacuum pump by Comparison Method as per DKD-R 6-1	(-) 100 mbar to 100 mbar	0.072 mbar
269	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Pressure Gauge, Pressure Indicator / Controller / Transmitter with or without Indicator / Pressure Switch, pressure Calibrator, Manometer	Using Digital Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	0 to 2 bar	0.9 %rdg



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270	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure, Pressure Gauge, Pressure Indicator / Controller / Transmitter with or without Indicator / Pressure Switch, pressure Calibrator, Manometer	Using Digital Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R 6-1	2 bar to 40 bar	0.1 %rdg
271	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench - Type - I Class B,C,D,E Type II, Class A,B,D,E	Using Torque Transducer With indicator of various capacities, Torque Calibration ring as per ISO 6789: 2017	300 Nm to 1000 Nm	0.53 %rdg
272	MECHANICAL-TORQUE GENERATING DEVICES	Torque Wrench, Torque Driver, Type I Class B,C,D,E Type II Class A,B,D,E	Using Torque Transducer With indicator of various capacities, Torque Calibration ring as per Based on ISO 6789: 2017	0.1 Nm to 10 Nm	1.99 %rdg
273	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balance - Class I (Readability : 0.1 mg)	Using E2 Class Standard Weights as per OIML R 76-1	Upto 200 g	0.16 mg
274	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balance - Class II (Readability : 10 mg and coarser)	Using E2 & F1 Class Standard Weights as per OIML R 76-1	Upto 1000 g	13 mg



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275	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balance - Class II (Readability : Standard Weights as Upto 20 kg 100 mg)	Using F1 Class		59.2 mg
276	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balance - Class III (Readability : Standard Weights as Upto 300 kg 20 g)	Using F1 & M1 Class		13.2 g
277	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balance - Class III (Readability : Standard Weights as Upto 1000 kg 50 g and coarser)	Using M1 Class		200 g
278	MECHANICAL-WEIGHING SCALE AND BALANCE	Digital / Analog Weighing Balance, class II, Readability : Standard Weights as Upto 5 kg 10 mg	Using E2 & F1 Class		10 mg
279	OPTICAL EQUIPMENTS	Optical power level @ 1310 nm and 1550 nm	Using Optical power Meter by Direct Method / Comparison Method / Using Optical power Meter by Direct Method / Comparison Method	(-) 10 dBm	0.84 dBm
280	OPTICAL EQUIPMENTS	Optical power level @ 850 nm and 1300 nm	Humidity Datalogger (minimum 9 sensors) By Comparison Method	(-) 10 dBm	0.83 dBm
281	THERMAL-SPECIFIC HEATH & HUMIDITY	Chamber and Humidity Chamber - Multi-Position calibration		30 %rh to 95 %rh @ 20 °C to 50 °C	2.84 %rh



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282	THERMAL- SPECIFIC HEAT/ & HUMIDITY	Humidity Sensor or Indicator / Controller Recorder/ Chamber / Environmental Chamber - single Position Calibration	Using Digital Thermohygrometer by Comparison Method	15 %rh to 95 %rh @ 20 °C to 50 °C	0.9 %rh
283	THERMAL- TEMPERATURE	Chiller, Freezer, Oven, cold box, Incubator, autoclave (for Non-Medical Applications), Bath, Environmental Chamber - Multi- position calibration	Using Data Logger with RTD Sensor (minimum 9 sensors used) by Comparison Method	(-) 80 °C to 400 °C	1.2 °C
284	THERMAL- TEMPERATURE	Oven, Incubator (for Non-Medical Application), Bath, Furnace - Multi- position calibration	Using Data Logger with N Type Sensor (minimum 9 sensor used) by Comparison Method	400 °C to 1200 °C	4 °C
285	THERMAL- TEMPERATURE	RTD / TC with or without Indicator, Thermistor with indicator ,Temperature Recorder / Datalogger / Gauge, Switch /Transmitter	Using SSPRT Sensor with Digital Multimeter & Ultra low liquid bath by Comparison Method	(-) 80 °C to 30 °C	0.15 °C



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286	THERMAL-TEMPERATURE	RTD / TC with or without Indicator, Thermistor with indicator, Temperature Recorder / Datalogger / Gauge, Switch /Transmitter	Using SSPRT Sensor with Digital Multimeter, MFC & Oil bath by Comparison Method	30 °C to 250 °C	0.08 °C
287	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator, Temperature Datalogger with sensor, Temperature Gauge, Temperature Transmitter with sensor, Temperature switch	Using SSPRT Sensor with Digital Multimeter, MFC & Dry block Calibrator by Comparison Method	250 °C to 400 °C	0.13 °C
288	THERMAL-TEMPERATURE	RTD / Thermocouple with or without Indicator, Temperature Datalogger with sensor, Temperature Gauge, Temperature Transmitter with sensor, Temperature switch	Using SSPRT Sensor with Digital Multimeter, MFC & Dry block Calibrator by Comparison Method	400 °C to 650 °C	0.23 °C



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289	THERMAL-TEMPERATURE	RTD/Thermocouple with/without Indicator, Temperature Datalogger with sensor, Temperature Gauge, Temperature Transmitter with sensor, Temperature switch	Using SSPRT Sensor with Digital Multimeter, MFC, liquid nitrogen bath Comparison Method	(-) 196 °C	0.15 °C
290	THERMAL-TEMPERATURE	Temperature Indicator of Bath, Dry Block Calibrator - Single Position calibration	Using R-Type Thermocouple with Indicator by Comparison Method	650 °C to 1200 °C	1.96 °C
291	THERMAL-TEMPERATURE	Temperature Indicator sensor of Bath, Dry Block Calibrator - Single Position calibration	Using SSPRT Sensor with Digital Multimeter by Comparison Method	(-) 80 °C to 0 °C	0.17 °C
292	THERMAL-TEMPERATURE	Temperature Indicator sensor of Bath, Dry Block Calibrator - Single Position calibration	Using SSPRT Sensor with Digital Multimeter by Comparison Method	200 °C to 650 °C	0.16 °C
293	THERMAL-TEMPERATURE	Temperature Indicator sensor of Bath, Dry Block Calibrator - Single Position calibration	Using SSPRT Sensor with Digital Multimeter by Comparison Method	0 °C to 200 °C	0.08 °C



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294	HERMAL-TEMPERATURE	Temperature Indicator with sensor in Dry Bath Source - Single Position calibration	(Emissivity @ 0.95) Using Pyrometer by Comparison Method	50 °C to 500 °C	2.64 °C
295	HERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven, Furnace, Bath, Environmental Chamber - Single Position Calibration	Using R-Type Thermocouple with Indicator by Comparison Method	400 °C to 1200 °C	1.65 °C
296	HERMAL-TEMPERATURE	Thermocouple with or without Indicator, Temperature Recorder/ Datalogger/ Gauge, Switch /Transmitter	Using R-Type Thermocouple with indicator, MFC &b Dry bath calibrator by Comparison Method	650 °C to 1200 °C	1.85 °C

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