



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

ELECTRONICS REGIONAL TEST LABORATORY(WEST), GOVERNMENT OF INDIA, MINISTRY OF ELECTRONICS & INFORMATION TECHNOLOGY, STQC DIRECTORATE, PLOT NO. F-7&8, MIDC AREA, OPP.SEEPZ, ANDHERI(EAST), MUMBAI, MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

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Validity

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Active Energy @ 40 Hz to 70 Hz (30 V to 500 V, 10 mA to 100 A, 0.1 (Lag/Lead) to UPF	Using Power Energy Standard by Direct Method	0.03 Wh to 50 kWh	0.2 % to 0.02 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Active Power @ 40 Hz to 70 Hz (30 V to 500 V, 10 mA to 100 A, 0.1(Lag/Lead) to UPF)	Using Power Energy Standard by Direct Method	0.03 W to 50 kW	0.2 % to 0.02 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase Active Energy @ 40 Hz to 70 Hz) (40 V to 320 V,10 mA to 20 A, 0.1(Lag/Lead) to UPF)	Using Power Energy Calibrator by by Direct Method	0.12 Wh to 19.2 kWh	0.023 % to 0.21 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase Active Energy @ 40 Hz to 70 Hz, (30 V to 500 V, 10 mA to 100 A, 0.1 (Lag/Lead) to UPF)	Using Power Energy Standard by Direct Method	0.09 Wh to 150 kWh	0.2 % to 0.02 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase Active Power @ 40 Hz to 70 Hz (30 V to 500 V, 10 mA to 100 A, 0.1 (Lag/Lead) to UPF)	Using Power Energy Standard by Direct Method	0.04 W to 6.4 kW	0.2 % to 0.027 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to 5 kHz	Using 8½ DMM, AC Measurement Standard and Standard Resistor by V / I Method	10 µA to 100 µA	0.2 % to 0.05 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to 5 kHz	Using 8½ DMM and Standard Resistor by V / I Method	100 µA to 100 mA	0.05 % to 0.03 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to 5 kHz	Using 8½ DMM and Standard Resistor by V / I Method	100 mA to 20 A	0.03 % to 0.09 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using AC Measurement Standard & Std. Resistor by V / I Method)	10 µA to 100 mA	0.015 % to 0.025 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 8½ DMM and Standard Resistor by V / I Method	10 A to 100 A	0.02 % to 0.05 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 1 kHz	Using 8½ DMM and Standard Resistor by V / I Method	100 mA to 10 A	0.01 % to 0.02 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 5 kHz to 10 kHz	Using AC Measurement System & AC Shunts by V / I Method	1 mA to 2 A	0.01 % to 0.025 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 5 kHz to 10 kHz	Using AC Measurement System & AC Shunts by V / I Method	2 A to 10 A	0.03 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using CT, 8½ DMM and Standard Resistor by Comparison Method	1 A to 3200 A	0.2 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 35 kV	0.5 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM & HV Source by Comparison Method:	1 kV to 35 kV	0.6 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	35 kV to 50 kV	0.5 % to 1 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1 kHz	Using MFC, Standard Resistor & 8½ DMM by Comparison Method	0.1 mohm to 100 mohm	0.02 % to 0.01 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1 kHz	Using MFC, Standard Resistor & 8½ by Comparison Method	1 ohm to 10 kohm	0.004 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1 kHz	Using MFC, Standard Resistor & 8½ DMM by Comparison Method	100 mohm to 1 ohm	0.01 % to 0.004 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 10 kHz	Using AC Measurement System by Direct Method	1 mV to 100 mV	0.2 % to 0.015 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 10 kHz	Using AC Measurement System by Direct Method	10 V to 1000 V	0.004 % to 0.009 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 10 kHz	Using AC Measurement System by Direct Method	100 mV to 10 V	0.015 % to 0.004 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 30 kHz	Using AC Measurement System by Direct Method	1 mV to 100 mV	0.16 % to 0.009 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 30 kHz	Using AC Measurement System by Direct Method	10 V to 1000 V	0.005 % to 0.009 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 30 kHz	Using AC Measurement System by Direct Method	100 mV to 10 V	0.009 % to 0.005 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 100 kHz to 1 MHz	Using AC Measurement System by Direct Method	1 mV to 10 V	1.4 % to 0.21 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 30 kHz to 100 kHz	Using AC Measurement System by Direct Method	1 mV to 100 mV	0.3 % to 0.0093 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 30 kHz to 100 kHz	Using AC Measurement System by Direct Method	10 V to 200 V	0.005 % to 0.09 %



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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 30 kHz to 100 kHz	Using AC Measurement System by Direct Method	100 mV to 10 V	0.009 % to 0.005 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Video Bridge and MTS by Direct Method	1 μF to 10 mF	0.01 % to 0.05 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Capacitance Measuring assembly by Direct Method	1 pF to 10 pF	0.02 % to 0.005 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Capacitance Measuring assembly by Direct Method	10 pF to 1000 pF	0.005 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Capacitance Measuring assembly by Direct Method	1000 pF to 1 μF	0.005 % to 0.011 %



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35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 100 Hz	Using Video Bridge and MTS by Direct Method	10 mF to 1000 mF	0.05 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	CT Phase Angle @ 50 Hz	Using CT Test Bench & Standard CT by Comparison Method	0 min to 360 min	3 min
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	CT Ratio @ 50 Hz	Using CT Test Bench & Standard CT by Comparison Method	1 A to 3200 A / 1 A or 5 A	0.2 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using Video Bridge & Component Analyser by Direct Method	100 µH to 10 H	0.052 % to 0.055 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Phase Angle @ 40 Hz to 70 Hz (30 V to 500 V, 10 mA to 100 A)	Using Power Energy Standard by Direct Method	(-) 180 ° to (+) 180 °	0.006 ° to 0.007 °



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40	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Power Factor (Lead/Lag) @ 40 Hz to 70 Hz (30 V to 500 V, 10 mA to 100 A)	Using Power Energy Standard by Direct Method	0.1 PF to UPF	0.006 to 0.007
41	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	PT Phase Angle @ 50 Hz	Using PT Test Bench with Standard PT by Comparison Method	0 min to 360 min	3 min
42	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	PT Ratio @ 50 Hz	Using PT Test Bench with Standard PT by Comparison Method	220V/110V, 63.5V to 33kV/110V, 63.5V	0.2 %
43	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	1 Phase Active Energy @ 40 to 70 Hz (30 V to 500 V, 10 mA to 100 A, 0.1(Lead/Lag) to UPF)	Using Power Energy Calibrator by Direct Method	0.03 Wh to 50 kWh	0.2 % to 0.021 %
44	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	1 Phase Active Power @ 40 to 70 Hz (30 V to 500V, 10 mA to 100 A, 0.1 (Lead/Lag) to UPF)	Using Power Energy Calibrator by Direct Method	0.03 W to 50 kW	0.2 % to 0.021 %



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45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3 Phase Active Energy @ 40 Hz to 70 Hz (40 V to 300 V, 10 mA to 100 A, 0.1(Lead/Lag) to UPF)	Using Power Energy System by Direct Method	0.04 Wh to 30 kWh	0.2 % to 0.027 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	3 Phase Active Power @ 40 Hz to 70 Hz (40 V to 300 V, 10 mA to 100 A, 0.1 (Lead/Lag) to UPF	Using Power Energy Calibrator by Direct Method	0.04 W to 30 kW	0.2 % to 0.027 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 1 kHz	Using MFC, AC Measurement Std & Std. Resistor by V / I Method)	10 µA to 100 mA	0.01 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using MFC, AC Measurement Std & Std. Resistor by V / I Method	10 µA to 100 µA	0.2 % to 0.05 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using MFC, AC Measurement Std and Current shunt by V / I Method	100 µA to 100 mA	0.05 % to 0.03 %



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50	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using MFC & Trans-conductance Amplifier by Direct Method	100 mA to 20 A	0.03 % to 0.09 %
51	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC CURRENT @ 10 Hz to 1 kHz	Using Trans conductance Amplifier, Std. Resistor & 8½ DMM by V / I Method	10 A to 100 A	0.02 % to 0.1 %
52	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 1 kHz	Using MFC, AC Measurement Std and Std. Resistor by V/I method	100 mA to 10 A	0.01 % to 0.03 %
53	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 5 kHz to 10 kHz	Using MFC by Direct Method	1 mA to 2 A	0.01 % to 0.057 %
54	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 5 kHz to 10 kHz	Using MFC by Direct Method	2 A to 10 A	0.03 %
55	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using MFC with Current coil & CT source by Direct Method	20 A to 3200 A	0.3 %



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56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Resistors by Direct Method	0.1 mohm to 1 mohm	0.023 % to 0.017 %
57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Resistors by Direct Method	1 ohm to 10 kohm	0.0008 % to 0.003 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Resistors by Direct Method	10 mohm to 100 mohm	0.012 % to 0.008 %
59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 10 kHz	Using MFC by Direct Method	1 mV to 100 mV	0.2 % to 0.015 %
60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 10 kHz	Using MFC by Direct Method	10 V to 1000 V	0.004 % to 0.009 %
61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 10 kHz	Using MFC by Direct Method	100 mV to 10 V	0.015 % to 0.004 %



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62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 30 kHz	Using MFC by Direct Method	1 mV to 100 mV	0.16 % to 0.0092 %
63	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 30 kHz	Using MFC by Direct Method	10 V to 1000 V	0.005 % to 0.009 %
64	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 30 kHz	Using MFC by Direct Method	100 mV to 10 V	0.0092 % to 0.005 %
65	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 100 kHz to 1 MHz	Using MFC by Direct Method	1 mV to 10 V	1.3 % to 0.21 %
66	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 30 kHz to 100 kHz	Using MFC by Direct Method	1 mV to 100 mV	0.3 % to 0.0093 %
67	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 30 kHz to 100 kHz	Using MFC by Direct Method	10 V to 200 V	0.005 % to 0.009 %



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68	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 30 kHz to 100 kHz	Using MFC by Direct Method	100 mV to 10 V	0.0093 % to 0.005 %
69	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using 4 Terminal std. Capacitor by Direct Method	1 µF to 10 mF	0.058 %
70	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Std. Capacitor by Direct Method	1 pF	0.042 %
71	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Std. Capacitors by Direct Method	10 pF to 1000 pF	0.002 % to 0.001 %
72	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Std. Capacitor by Direct Method	1000 pF to 1 µF	0.001 % to 0.011 %
73	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using 4 Terminal std. Capacitor by Direct Method	10 mF to 1000 mF	0.1 %



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74	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Std. Inductor by Direct Method	100 μ H to 10 H	0.052 %
75	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Phase Angle @ 40 to 70 Hz (30 V to 500 V, 10 mA to 100 A)	Using Power & Energy Calibrator by Direct Method	(+) 180° to (-) 180°	0.017 °
76	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor (Lead/Lag) @ 40 Hz to 70 Hz (30 V to 500 V, 10 mA to 100 A)	Using Power Energy Calibrator by Direct Method	0.1 PF to UPF	0.013
77	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM and Standard Resistor by V / I Method	1 A to 20 A	0.002 % to 0.006 %
78	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM and Standard Resistor by V / I Method	1 nA to 100 μ A	0.003 % to 0.002 %
79	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM and Standard Resistor by V / I Method	100 μ A to 1 A	0.002 %



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80	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM and Standard Resistor by V / I Method	100 µA to 100 mA	0.002 % to 0.001 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM and Standard Resistor by V / I Method	100 A to 500 A	0.01 % to 0.04 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM and Standard Resistor by V / I Method	100 mA to 1 A	0.001 % to 0.002 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using Electrometer with Standard Resistor by V / I Method	100 pA to 1 nA	0.05 % to 0.003 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM and Standard Resistor by V / I Method	20 A to 100 A	0.006 % to 0.01 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 50 kV	0.05 % to 0.5 %



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86	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using DCC Bridge and Standard Resistor by Direct Method	0.1 mohm to 100 mohm	0.001 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ DMM, MFC and Standard Resistor by Comparison Method	1 Gohm to 1 Tohm	0.001 % to 0.05 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ DMM, MFC and Standard Resistor by comparison Method	1 Mohm to 1 Gohm	0.0003 % to 0.001 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using DCC Bridge and Standard Resistor by Direct Method	1 ohm to 1 Mohm	0.0003 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using DCC Bridge & Standard Resistor by Direct Method	100 mohm to 1 ohm	0.001 % to 0.0003 %
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Nano voltmeter by Direct Method	1 mV to 100 mV	0.007 % to 0.0005 %



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92	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using Nano voltmeter by Direct Method	10 μ V to 1 mV	0.015 % to 0.007 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM, DC Ref. STD, Ref. Divider with Null Detector by Comparison Method	100 mV to 1000 V	0.0005 % to 0.0003 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	1 A to 20 A	0.002 % to 0.006 %
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	10 μ A to 100 μ A	0.003 % to 0.002 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using DC High Current Source by Direct Method	100 A to 500 A	0.01 % to 0.02 %
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC with Transconductance amplifier by Direct Method	20 A to 100 A	0.006 % to 0.01 %



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98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC with Current Coil by Direct Method	20 A to 1000 A	0.2 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Voltage	Using HV Source with HV Divider by Direct Method	1 kV to 50 kV	0.05 % to 0.5 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (100 mV to 1000 V, 100 mA to 20 A)	Using MFC by Direct Method	10 mW to 20 kW	0.025 % to 0.07 %
101	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	0.1 mohm to 100 mohm	0.001 %
102	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor and Decade Resistance Box by Direct Method	1 Mohm to 10 Gohm	0.0005 % to 0.001 %
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	1 ohm to 1 Mohm	0.0002 % to 0.0005 %



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104	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	10 Gohm to 1 Tohm	0.001 % to 0.2 %
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistors by Direct Method	100 mohm to 1 ohm	0.0002 % to 0.001 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	1 mV to 100 mV	0.002 % to 0.0005 %
107	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	1 V to 10 V	0.0002 % to 0.0001 %
108	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	10 µV to 1 mV	0.005 % to 0.002 %
109	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	100 mV to 1000 V	0.0005 % to 0.0003 %



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110	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Amplitude (Vertical Deflection factor) - 50 ohm	Using MFC by Direct Method	1 mV to 6.5 V	0.17 %
111	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Amplitude (Vertical Deflection factor) -1 Mohm	Using MFC by Direct Method	1 mV to 130 V	0.17 %
112	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth	Using MFC & Signal Generator by Direct Method	10 Hz to 3 GHz	2 % to 5 %
113	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time Base	Using MFC by Direct Method	2 ns to 5 s	0.0011 % to 0.0003 %
114	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Level / Power @ 100 kHz to 3 GHz	Using RF Power Meter with sensor by Direct Method	(-) 50 dBm to 13 dBm	0.22 dB to 0.28 dB



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115	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Level / Power @ 3 GHz to 18 GHz	Using RF Power Meter with sensor by Direct method	(-) 50 dBm to 13 dBm	0.22 dB to 0.26 dB
116	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Level / Power @ 10 kHz to 3 GHz	Using Synthesized Signal Generator by Direct Method	(-) 50 dBm to 13 dBm	0.24 dB to 0.28 dB
117	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Level / Power @ 3 GHz to 6 GHz	Using Synthesized Signal Generator by Direct Method	(-) 50 dBm to 13 dBm	0.24 dB to 0.28 dB
118	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B - Type Thermocouple	Using 8½ DMM by Direct Method	0 °C to 1800 °C	0.04 °C
119	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	C - Type Thermocouple	Using 8½ DMM by Direct Method	0 °C to 2320 °C	0.25 °C



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120	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using 8½ DMM by Direct Method	(-) 270 °C to 1000 °C	0.012 °C
121	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J - Type Thermocouple	Using 8½ DMM by Direct Method	(-) 210 °C to 1200 °C	0.013 °C
122	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K - Type Thermocouple	Using 8 ½ DMM by Direct Method	(-) 270 °C to 1372 °C	0.03 °C
123	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	L - Type Thermocouple	Using 8½ DMM by Direct Method	(-) 200 °C to 900 °C	0.04 °C
124	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N - Type Thermocouple	Using 8½ DMM by Direct Method	(-) 270 °C to 1300 °C	0.025 °C
125	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R - Type Thermocouple	Using 8½ DMM by Direct Method	(-) 50 °C to 1768 °C	0.035 °C



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126	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 385 - 100 ohm)	Using 8½ DMM by Direct Method	(-) 200 °C to 650 °C	0.01 °C
127	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 385 - 1000 ohm)	Using 8½ DMM by Direct Method	(-) 200 °C to 650 °C	0.01 °C
128	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using 8½ DMM by Direct Method	(-) 50 °C to 1768 °C	0.043 °C
129	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T - Type Thermocouple	Using 8½ DMM by Direct Method	(-) 270 °C to 400 °C	0.038 °C
130	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	U - Type Thermocouple	Using 8½ DMM by Direct Method	(-) 200 °C to 600 °C	0.03 °C
131	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using MFC by Direct Method	0 °C to 1820 °C	0.07 °C



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132	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	C - Type Thermocouple	Using MFC by Direct Method	0 °C to 2320 °C	0.09 °C
133	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using MFC by Direct Method	(-) 270 °C to 1000 °C	0.11 °C
134	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using MFC by Direct Method	(-) 210 °C to 1200 °C	0.08 °C
135	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using MFC by Direct Method	(-) 270 °C to 1372 °C	0.06 °C
136	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	L - Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 900 °C	0.02 °C
137	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using MFC by Direct Method	(-) 270 °C to 1300 °C	0.06 °C



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138	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using MFC by Direct Method	(-) 50 °C to 1768 °C	0.2 °C
139	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 385 - 100 ohm)	Using MFC by Direct Method	(-) 199 °C to 650 °C	0.03 °C
140	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 385 - 1000 ohm)	Using MFC by Direct Method	(-) 199 °C to 650 °C	0.03 °C
141	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using MFC by Direct Method	(-) 50 °C to 1768 °C	0.2 °C
142	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using MFC by Direct Method	(-) 270 °C to 400 °C	0.09 °C
143	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	U - Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 600 °C	0.02 °C



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144	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter with Rubidium Reference by Direct Method/	1 mHz to 18 GHz	2 E-10
145	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Frequency counter Rubidium Frequency counter Direct Method	100 ms to 10000 s	1.64 E-5 to 5 E-8
146	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Period	Using Frequency Counter with Rubidium Reference by Direct Method	3.3 ns to 1000 s	2.1 E-10
147	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Signal Generator with Rubidium Reference by Direct Method	1 mHz to 18 GHz	3 E - 11
148	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Time	Using Frequency Counter, Rubidium Reference with Signal Generator by Direct Method	3.3 ns to 1000 s	7 E - 10
149	MECHANICAL-ACCELERATION AND SPEED	Tachometer - (Non Contact)	Using Digital Tachometer & RPM generator by Comparison Method	1000 rpm to 99900 rpm	0.13 %



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150	MECHANICAL-ACCELERATION AND SPEED	Tachometer - (Non Contact)	Using Digital Tachometer & RPM generator by Comparison Method	50 rpm to 1000 rpm	1.1 %
151	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I and Coarser (Readability : 0.002 mg)	Using E1 class standard weights as per OIML R 76-1	0 to 20 g	0.03 mg
152	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I and Coarser (Readability : 0.01 mg)	Using E1 Class standard weights as per OIML R 76-1	> 20 g to 200 g	0.14 mg
153	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class II and Coarser (Readability : 0.1 g)	Using E1 & E2 class standard weights as per OIML R 76-1	> 200 g to 12 kg	76 mg
154	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Class standard weights and Balances (Readability : 0.002 mg) by substitution Method based on ABBA cycles as per OIML R 111-1	2 g	0.014 mg



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155	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Class standard weights and Balances (Readability : 0.01 mg) by substitution Method based on ABBA cycles as per OIML R 111-1	200 g	0.12 mg
156	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Class standard weights and Balance (Readability : 0.002 mg) by substitution Method based on ABBA cycle as per OIML R 111-1	1 g	0.012 mg
157	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Class standard weights and Balances (Readability : 0.01 mg) by substitution Method based on ABBA cycles as per OIML R 111-1	100 g	0.12 mg



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158	MECHANICAL-WEIGHTS	Accuracy Class E2 and Coarser	Using E1 Class standard weights and Balances (Readability : 0.002 mg & Coarser) by substitution Method based on ABBA cycles as per OIML R 111-1	20 g	0.03 mg
159	MECHANICAL-WEIGHTS	Accuracy Class F1 and Coarser	Using E1 Class standard weights and Balances (Readability : 0.002 mg & Coarser) by substitution Method based on ABBA cycles as per OIML R 111-1	20 g	0.03 mg
160	MECHANICAL-WEIGHTS	Accuracy Class F1 and Coarser	Using E1 Class standard weights and Balances (Readability : 0.002 mg) by substitution Method based on ABBA cycles as per OIML R 111-1	5 g	0.024 mg



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161	MECHANICAL-WEIGHTS	Accuracy Class F1 and Coarser	Using E1 Class standard weights and Balances (Readability : 0.01 mg) by substitution Method based on ABBA cycles as per OIML R 111-1	50 g	0.06 mg
162	MECHANICAL-WEIGHTS	Accuracy Class F1 and Coarser	Using E1 Class standard weights and Balances (Readability : 0.002 mg) by substitution Method based on ABBA cycles as per OIML R 111-1	500 mg	0.01 mg
163	MECHANICAL-WEIGHTS	Accuracy Class F1 and Coarser	Using E1 Class standard weights and Balances (Readability : 0.002 mg & Coarser) by substitution Method based on ABBA cycles as per OIML R 111-1	10 g	0.03 mg



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164	MECHANICAL-WEIGHTS	Accuracy Class F1 and Coarser	Using E1 Class standard weights and Balances (Readability : 0.002 mg) by substitution Method based on ABBA cycles as per OIML R 111-1	100 mg	0.006 mg
165	MECHANICAL-WEIGHTS	Accuracy Class F1 and Coarser	Using E1 Class standard weights and Balances (Readability : 0.002 mg) by substitution Method based on ABBA cycles as per OIML R 111-1	200 mg	0.01 mg
166	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	Using E1 Class standard weights and Balance (Readability : 0.002 mg) by substitution Method based on ABBA cycles as per OIML R 111-1	2 mg	0.01 mg



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167	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	Using E1 Class standard weights and Balances (Readability : 0.002 mg) by substitution Method based on ABBA cycles as per OIML R 111-1	20 mg	0.01 mg
168	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	Using E1 Class standard weights and Balance (Readability : 0.002 mg) by substitution Method based on ABBA cycle as per OIML R 111-1	1 mg	0.004 mg
169	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	Using E1 Class standard weights and Balance (Readability 0.002 mg) by substitution Method based on ABBA cycles as per OIML R 111-1	10 mg	0.004 mg



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170	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	Using E1 class standard weights and Balances (Readability : 0.002 mg) by substitution Method based on ABBA cycles as per OIML R 111-1	5 mg	0.01 mg
171	MECHANICAL-WEIGHTS	Accuracy Class F2 and Coarser	Using E1 Class standard weights and Balances (Readability : 0.002 mg) by substitution Method based on ABBA cycles as per OIML R 111-1	50 mg	0.01 mg
172	MECHANICAL-WEIGHTS	Accuracy Class M2 and Coarser	Using E2 Accuracy Class standard weights and Balances (Readability : 0.1 g) by substitution Method based on ABBA cycles as per OIML R 111-1	5 kg	120 mg



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173	MECHANICAL-WEIGHTS	Accuracy Class M2 and Coarser	Using E2 Class standard weights and Balance (Readability : 0.1 g) by substitution Method based on ABBA cycles as per OIML R 111-1	10 kg	120 mg
174	MECHANICAL-WEIGHTS	Accuracy Class M3 and Coarser	Using E2 Class standard weights and Balance (Readability : 0.1 g) by substitution Method based on ABBA cycles as per OIML R 111-1	500 g	120 mg
175	MECHANICAL-WEIGHTS	Accuracy Class M3 and Coarser	Using E2 Class standard weights and Balance (Readability :0.1 g) by substitution Method based on ABBA cycles as per OIML R 111-1	1 kg	120 mg



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176	MECHANICAL-WEIGHTS	Accuracy Class M3 and Coarser	Using E2 Class standard weights and Balance (Readability :0.1 g) by substitution Method based on ABBA cycles as per OIML R 111-1	2 kg	120 mg
177	THERMAL-SPECIFIC HEAT & HUMIDITY	RH & Temperature Indicator with Inbuilt or External sensors, Thermo Hygrometer	Using RH & Temperature Indicator with sensor, Chamber by Comparison Method	20 % rh to 95 % rh @ 25 °C, 40 °C, 55 °C	0.2 °C
178	THERMAL-SPECIFIC HEAT & HUMIDITY	RH & Temperature Indicator with Inbuilt or External sensors, Thermo Hygrometer	Using RH & Temperature Indicator with sensor, Chamber by Comparison Method	20 % rh to 95 % rh @ 25 °C, 40 °C, 55 °C	1 % rh
179	THERMAL-TEMPERATURE	Digital Temperature indicator with sensor of Chambers, Baths (Single Position)	Using PRT with DTI by comparison method	250 °C to 600 °C	0.1 °C
180	THERMAL-TEMPERATURE	Digital temperature indicator with Sensor of Chambers, Freezers, Baths (Single Position)	Using PRT with DTI by comparison method	(-) 80 °C to 250 °C	0.05 °C
181	THERMAL-TEMPERATURE	Liquid in glass thermometer	Using PRT with DTI, Oil bath by Comparison Method	(-) 80 °C to 250 °C	0.57 °C



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182	THERMAL-TEMPERATURE	RTD with or without indicator, Data logger, Scanner	Using PRT with DTI and Oil bath by Comparison Method	(-) 80 °C to 250 °C	0.07 °C
183	THERMAL-TEMPERATURE	RTD with or without indicator, Data logger, Scanner	Using PRT with DTI and Dry Block calibrator by Comparison Method	250 °C to 600 °C	0.16 °C
184	THERMAL-TEMPERATURE	Thermocouples with or without indicator, Data logger, Scanner	Using S type Thermocouple with DTI and Dry block furnace by Comparison Method	300 °C to 1000 °C	1.3 °C
185	THERMAL-TEMPERATURE	Thermocouples with or without indicator, Data loggers, Scanner	Using PRT with DTI and Dry block furnace by Comparison Method	50 °C to 600 °C	0.16 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Active Energy @ 40 Hz to 70 Hz (40 V to 320 V, 10 mA to 20 A, 0.1 (lag/Lead) to UPF)	Using Power Analyzer by Direct Method	0.04 Wh to 6.4 kWh	0.031 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Active Power @ 40 Hz to 70 Hz (40 V to 320 V, 10 mA to 20 A, 0.1(lag/Lead) to UPF)	Using Power Analyzer by Direct Method	0.04 W to 6.4 kW	0.03 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase AC Active Power @ 40 Hz to 70 Hz (40 V to 320 V, 10 mA to 20 A, 0.1(Lag/Lead) to UPF)	Using Power Energy Calibrator by Direct Method	0.04 W to 6.4 kW	0.03 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 1 KHz	Using 8½ DMM and Standard Resistor by V / I Method	20 A to 100 A	0.05 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 5 KHz	Using 8½ DMM and Standard Resistor by V / I Method	1 A to 20 A	0.05% to 0.08%
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz to 5 kHz	Using 8½ DMM and Standard Resistor by V / I Method	100 mA to 1 A	0.04 % to 0.08 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 5 kV	1 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	5 kV to 28 kV	1 % to 2 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1 KHz	Using Precision Component Analyser by Direct Method	1 ohm to 5 Mohm	0.02 % to 0.1 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 30 kHz	Using 8½ DMM by Direct Method	10 mV to 100 mV	0.07 % to 0.034 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 30 kHz	Using 8½ DMM by Direct Method:	100 mV to 1000 V	0.034 % to 0.022 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 30 kHz to 100 kHz	Using 8½ DMM by Direct Method	10 mV to 100 mV	0.17 % to 0.08 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 30 kHz to 100 kHz	Using 8½ DMM by Direct Method	100 mV to 100 V	0.08 % to 0.06 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 10 kHz	Using 8½ DMM by Direct Method	10 mV to 100 mV	0.03 % to 0.012 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 10 kHz	Using 8½ DMM by Direct Method	100 mV to 1000 V	0.012 % to 0.01 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Precision Component Analyser by Direct Method	10 pF to 1 mF	0.05 % to 0.2 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using Precision Component Analyser by Direct Method	10 µH to 10 H	0.052 % to 0.2 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Phase Angle @ 40 Hz to 70 Hz (40 V to 320 V, 5 mA to 20 A)	Using Power Energy Standard by Direct Method	(-) 180 ° to (+)180 °	0.028 °
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase Active Energy @ 40 to 70 Hz (40 V to 320 V, 10 mA to 20 A, 0.1(Lead/Lag) to UPF)	Using Power Energy Calibrator by Direct Method	0.04 Wh to 6.4 kWh	0.031 % to 0.31 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	1 Phase Active Power @ 40 to 70 Hz (40 V to 320 V, 10 mA to 20 A, 0.1(Lag/Lead) to UPF)	Using Power Energy Calibrator by Direct Method	0.04 W to 6.4 kW	0.03 % to 0.31 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using MFC by Direct Method	1 A to 20 A	0.7 % to 3.2 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using MFC & MTS by Direct Method	1 mA to 10 mA	0.22 % to 0.1 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using MFC by Direct Method	10 mA to 100 mA	0.1 % to 0.15 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using MFC & MTS by Direct Method	100 µA to 1 mA	0.45 % to 0.22 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using MFC by Direct Method	100 mA to 1 A	0.15 % to 0.7 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using MFC with Current Coil by Direct Method	20 A to 1000 A	0.3 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using MFC by Direct Method	1 A to 10 A	0.06 % to 0.08 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using MFC by Direct Method	1 mA to 10 mA	0.12 % to 0.06 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using MFC by Direct Method	10 A to 20 A	0.08 % to 0.15 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using MFC by Direct Method	10 mA to 1 A	0.06 %



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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using MFC by Direct Method	100 µA to 1 mA	0.23 % to 0.12 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Resistors by Direct Method	1 ohm to 10 kohm	0.004 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Resistors by Direct Method	10 mohm to 100 mohm	0.01 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 30 kHz	Using MFC by Direct Method	1 mV to 10 mV	0.7 % to 0.11 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 30 kHz	Using MFC by Direct Method	10 mV to 100 mV	0.11 % to 0.036 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 30 kHz	Using MFC by Direct Method	10 V to 100 V	0.03 % to 0.036 %



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37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 30 kHz	Using MFC by Direct Method	100 mV to 10 V	0.036 % to 0.03 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 100 kHz to 500 kHz	Using MFC by Direct Method	1 mV to 10 V	5.8 % to 0.25 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 30 kHz to 100 kHz	Using MFC by Direct Method	1 mV to 10 mV	1.5 % to 0.5 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 30 kHz to 100 kHz	Using MFC by Direct Method	10 mV to 100 mV	0.5 % to 0.083 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 30 kHz to 100 kHz	Using MFC by Direct Method	10 V to 100 V	0.041 % to 0.25 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 30 kHz to 100 kHz	Using MFC by Direct Method	100 mV to 10 V	0.083 % to 0.041 %



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43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using MFC by Direct Method	1 mV to 10 mV	0.62 % to 0.075 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using MFC by Direct Method	10 mV to 100 mV	0.075 % to 0.025 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using MFC by Direct Method	10 V to 1000 V	0.021 % to 0.031 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using MFC by Direct Method	100 mV to 10 V	0.025 % to 0.021 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using 4 Terminal std. Capacitor by Direct Method	1 µF to 10 mF	0.02 % to 0.1 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Std. Capacitor by Direct Method	1 pF	0.04 %



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49	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Std. Capacitor by Direct Method	10 pF to 1 μF	0.02 %
50	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using 4 Terminal std. Capacitor by Direct Method	10 mF to 1000 mF	0.1 %
51	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Std. Inductor by Direct Method	100 μH to 10 H	0.052 %
52	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Phase Angle/ @ 40 Hz to 70 Hz (40 V to 320 V, 5 mA to 100 A)	Using Power & Energy Calibrator by Direct Method	(-) 180° to (+) 180°	0.028 °
53	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM by Direct Method	10 mA to 100 mA	0.003 % to 0.004 %
54	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM by Direct Method	100 μA to 10 mA	0.003 %



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55	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM by Direct Method	100 mA to 1 A	0.004 % to 0.012 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 50 kV	0.2 % to 1%
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	5 kV to 40 kV	0.2 % to 1 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using High Resistance Meter by Direct Method	1 Gohm to 100 Gohm	0.012 % to 0.04 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ DMM by Direct Method	1 ohm to 10 ohm	0.0075 % to 0.001 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ DMM by Direct Method	10 ohm to 100 Mohm	0.001 % to 0.002 %



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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using High Resistance Meter by Direct Method	100 Gohm to 1 Tohm	0.04 % to 0.25 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ DMM by Direct Method	100 Mohm to 1 Gohm	0.002 % to 0.012 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using Micro ohm meter by Direct Method	100 mohm to 1 ohm	0.01 % to 0.0075 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM by Direct Method	1 mV to 10 mV	0.007 % to 0.0055 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM by Direct Method	10 mV to 100 mV	0.0055 % to 0.0008 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM by Direct Method	100 mV to 1000 V	0.0008 % to 0.0012 %



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67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	1 A to 20 A	0.025 % to 0.11 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	1 mA to 100 mA	0.017 % to 0.013 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	100 μ A to 1 mA	0.04 % to 0.017 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	100 mA to 1 A	0.013 % to 0.025 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC with Current Coil by Direct Method	20 A to 1000 A	0.3 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (1 V to 1000 V & 100 mA to 20 A)	Using MFC by Direct Method	10 mW to 20 kW	0.025 % to 0.07 %



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73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Decade Resistance Box by Direct Method	1 Gohm to 1 Tohm	0.05 % to 0.4 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	1 mohm to 10 kohm	0.001 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 10 Mohm	0.001 % to 0.005 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor and Decade Resistance Box by Direct Method	10 kohm to 1 Mohm	0.001 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Decade Resistance Box by Direct Method	10 Mohm to 1 Gohm	0.005 % to 0.05 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	1 mV to 100 mV	0.1 % to 0.003 %



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79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC by Direct Method	100 mV to 1000 V	0.003 % to 0.002 %
80	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Amplitude (Vertical Deflection Factor) - 50 ohm	Using MFC by Direct Method	1 mV to 6.5 V	0.46 %
81	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Amplitude (Vertical Deflection Factor) -1 Mohm	Using MFC by Direct Method	1 mV to 130 V	1 %
82	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Bandwidth	Using Signal Generator & MFC by Direct Method	10 Hz to 3 GHz	3 % to 5 %
83	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope - Time Base	Using MFC by Direct Method	2 ns to 5 s	0.0011 % to 0.0003 %



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84	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Level / Power @ 100 kHz to 3 GHz	Using RF Power Meter with sensor by Direct Method	(-) 50 dBm to 13 dBm	0.22 dB to 0.26 dB
85	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Level / Power @ 3 GHz to 18 GHz	Using RF Power Meter with sensor by Direct Method	(-) 50 dBm to 13 dBm	0.22 dBm to 0.26 dBm
86	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Level / Power @ 10 kHz to 3 GHz	Using Synthesized Signal Generator by Direct Method	(-) 50 dB to 13 dB	0.24 dB to 0.28 dB
87	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	RF Level / Power @ 3 GHz to 6 GHz	Using Synthesized Signal Generator by Direct Method	(-) 50 dB to 13 dB	0.24 dB to 0.28 dB
88	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B - Type Thermocouple	Using 8½ DMM by Direct Method	600 °C to 1800 °C	0.04 °C



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89	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	C - Type Thermocouple	Using 8½ DMM by Direct Method	0 °C to 2300 °C	0.9 °C
90	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using 8½ DMM by Direct Method	(-) 250 °C to 400 °C	0.038 °C
91	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using 8½ DMM by Direct Method	(-) 250 °C to 1000 °C	0.012 °C
92	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J - Type Thermocouple	Using 8½ DMM by Direct Method	(-) 200 °C to 1200 °C	0.013 °C
93	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K - Type Thermocouple	Using 8½ DMM by Direct Method	(-) 200 °C to 1350 °C	0.03 °C
94	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	L - Type Thermocouple	Using 8½ DMM by Direct Method	(-) 200 °C to 900 °C	0.4 °C



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95	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N - Type Thermocouple	Using 8½ DMM by Direct Method	(-) 200 °C to 1300 °C	0.025 °C
96	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R - Type Thermocouple	Using 8½ DMM by Direct Method	0 °C to 1750 °C	0.035 °C
97	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 385 - 100 ohm)	Using 8½ DMM by Direct Method	(-) 199 °C to 800 °C	0.04 °C
98	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 385 - 1000 ohm)	Using 8½ DMM by Direct Method	(-) 199 °C to 800 °C	0.04 °C
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using 8½ DMM by Direct Method	0 °C to 1750 °C	0.15 °C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using 8½ DMM by Direct Method	0 °C to 1750 °C	0.043 °C



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101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	U - Type Thermocouple	Using 8½ DMM by Direct Method	(-) 200 °C to 600 °C	0.6 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using MFC by Direct Method	600 °C to 1800 °C	0.15 °C
103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	C - Type Thermocouple	Using MFC by Direct Method	0 °C to 2300 °C	0.9 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using MFC by Direct Method	(-) 250 °C to 1000 °C	0.11 °C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 1200 °C	0.08 °C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 1350 °C	0.11 °C



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107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	L - Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 900 °C	0.4 °C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 1300 °C	0.025 °C
109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using MFC by Direct Method	0 °C to 1750 °C	0.15 °C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 385 - 100 ohm & 1000 ohm)	Using MFC by Direct Method	(-) 199 °C to 800 °C	0.03 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using MFC by Direct Method	(-) 250 °C to 400 °C	0.13 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	U - Type Thermocouple	Using MFC by Direct Method	(-) 200 °C to 600 °C	0.6 °C



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113	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter by Direct Method	1 Hz to 18 GHz	3 E-8
114	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency counter by Direct Method	1 Hz to 6 GHz	3 E-8
115	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Frequency counter by Direct Method	100 ms to 10000 s	0.007 %
116	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Period	Using Frequency Counter by Direct Method	1 μ s to 1000 s	9.7 E-10
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Time	Using Signal Generator by Direct Method	1 μ s to 1000 s	3 E - 8
118	MECHANICAL-ACCELERATION AND SPEED	Tachometer - (Non Contact)	Using Digital Tachometer & RPM generator by Comparison Method	1000 rpm to 99900 rpm	0.13 %



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Accreditation Standard

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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
119	MECHANICAL-ACCELERATION AND SPEED	Tachometer - (Non Contact)	Using Digital Tachometer & RPM generator by Comparison Method	50 rpm to 1000 rpm	1.1 %
120	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I and Coarser (Readability : 0.002 mg)	Using E1 class standard weights as per OIML R 76-1	0 to 20 g	0.03 mg
121	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class I and Coarser (Readability : 0.01 mg)	Using E1 Class standard weights as per OIML R 76-1	> 20 g to 200 g	0.14 mg
122	MECHANICAL-WEIGHING SCALE AND BALANCE	Electronic Weighing Balance - Class II and Coarser (Readability : 0.1 g)	Using E1 & E2 class standard weights as per OIML R 76-1	> 200 g to 12 kg	76 mg
123	THERMAL-SPECIFIC HEAT & HUMIDITY	RH & Temperature Indicator with Inbuilt or External sensors, Thermo-Hygrometer	Using RH / Temperature indicator with sensor & Chamber by comparison Method	20 % rh to 95 % rh @ 25 °C, 40 °C, 55 °C	1.5 % rh
124	THERMAL-TEMPERATURE	RTD with or without indicator	Using PRT with DTI and Dry Block Calibrator by Comparison Method	(-) 25 °C to 600 °C	0.2 °C
125	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Oven, Deep freezer, Chamber (Single Position)	Using RTD (PT-100) with DTI by Comparison Method	(-) 80 °C to 200 °C	0.5 °C



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126	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Ovens, baths, chambers (Single Position)	Using S type Thermocouple with DTI by Comparison Method	300 °C to 1000 °C	1.39 °C
127	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Ovens, baths, Deep freezers, Chambers (Single Position)	Using PRT with DTI by Comparison Method	(-) 25 °C to 600 °C	0.2 °C

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