



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS REGIONAL TEST LABORATORY (NORTH), S BLOCK, OKHLA
PH - II, NEW DELHI, DELHI, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2137

Validity 11/02/2026 to 10/02/2030

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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 2 wire AC Active Energy @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	1.59 Wh to 55 kWh	0.011 % to 0.032 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase 2 wire AC Active Energy @ 45 Hz to 60 Hz {120 V to 240 V, 5 A, 0.1(Lead/Lag)}	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	60 Wh to 120 Wh	0.02 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase 2 wire AC Active Power @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	1.59 W to 55 kW	0.012 % to 0.032 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase 2 wire AC Active Power @ 45 Hz to 60 Hz {120 V to 240 V, 5 A, 0.1(Lead/Lag)}	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	60 W to 120 W	0.02 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase 2 wire AC Apparent Power @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	3.18 VA to 55 kVA	0.011 % to 0.032 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase 2 wire AC Reactive Energy @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	1.59 VARh to 55 kVARh	0.012 % to 0.032 %



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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase 2 wire AC Reactive Power @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	1.59 VAR to 55 kVAR	0.011 % to 0.032 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 wire AC Active Energy @ 45 Hz to 60 Hz {120 V to 240 V, 5 A, 0.1(Lead/Lag)}	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	180 Wh to 360 Wh	0.02 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 phase 4 wire AC Active Energy @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	4.77 Wh to 165 kWh	0.011 % to 0.032 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 wire AC Active Power @ 45 Hz to 60 Hz (120 V, 5 A, 0.1(Lead/Lag)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	180 W to 360 W	0.02 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 phase 4 wire AC Active Power @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	4.77 W to 165 kW	0.011 % to 0.032 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 wire AC Apparent Power @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	9.54 VA to 165 kVA	0.011 % to 0.032 %



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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 phase 4 wire AC Reactive Energy @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	4.77 VARh to 165 kVARh	0.012 % to 0.032 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 phase 4 wire AC Reactive Power @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	4.77 VAR to 165 kVAR	0.011 % to 0.032 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 10 kHz	Using Current Shunt, AC - DC Transfer Standard, AC Measurement Standard & DMM by Comparison Method	1 A to 20 A	0.015 % to 0.02 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 10 kHz	Using Current Shunt, AC - DC Transfer Standard, AC Measurement Standard & DMM by Comparison Method	10 µA to 1 A	0.05 % to 0.015 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 50 Hz	Using DMM & Shunt by V / I Method	20 A to 100 A	0.02 % to 0.1 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 400 Hz	Using AC Current Probe with DMM by Direct Method	10 A to 1000 A	0.1 % to 1 %



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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 28 kV	0.71 % to 1 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 1 MHz	Using DMM, AC - DC Transfer Standard by Direct Method	2 mV to 22 mV	0.13 % to 0.01 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 1 MHz	Using DMM, AC - DC Transfer Standard by Direct Method	22 mV to 700 mV	0.01 % to 0.014 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 1 MHz	Using DMM, AC - DC Transfer Standard by Direct Method	700 mV to 22 V	0.014 % to 0.005 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 100 kHz	Using DMM, AC - DC Transfer Standard by Direct Method	22 V to 1000 V	0.002 % to 0.01 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Bridge / Meter, 4T Standard Capacitor by Substitution Method	1 μ F to 1 mF	0.02 % to 0.5 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Capacitance Bridge, Standard Capacitor by Substitution Method	1 pF to 1000 pF	0.02 % to 0.002 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Capacitance Bridge, LCR Bridge, Standard Capacitor, DMM by Substitution Method	1000 pF to 100 µF	0.002 % to 0.3 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using LCR Digibridge by Direct Method	100 µH to 10 H	0.05 % to 0.052 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using Standard Resistor and Standard Capacitor (for 100 H Simulation) & LCR Digi bridge / Meter by Direct /Substitution Method	100 H	0.05 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor (Lag/Lead) @ 45 Hz to 65 Hz (10 V to 600 V, 50 mA to 100 A)	Using Digital Power Energy Meter by Direct Method	0 to UPF	0.0006 PF
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Resistance @ 1 kHz	Using LCR Digi Bridge by Direct Method	1 ohm to 100 kohm	0.01 % to 0.02 %



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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 10 kHz	Using Multi Function Calibrator, Current Shunt, AC - DC Transfer Standard by Direct Method	10 µA to 22 mA	0.1 % to 0.015 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 50 Hz	Using Transconductance Amplifier & Multi Function Calibrator by Direct Method	20 A to 100 A	0.015 % to 0.2 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 40 Hz to 10 kHz	Using Multi Function Calibrator, Current Shunt, AC - DC Transfer Standard by Direct Method	22 mA to 2.2 A	0.011 % to 0.013 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 40 Hz to 10 kHz	Using Multi Function Calibrator, Current Shunt, AC - DC Transfer Standard by Direct Method	2.2 A to 20 A	0.013 % to 0.02 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 40 Hz to 65 Hz	Using MFC with Transconductance Current Amplifier, Shunt by Direct Method	100 A	0.21 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator with Current Coil by Direct Method	10 A to 1000 A	0.5 % to 0.62 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Reference AC/DC Resistors by Direct Method	1 ohm to 10 kohm	0.006 % to 0.001 %



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38	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Reference AC/DC Resistors by Direct method	10 kohm to 100 kohm	0.001 % to 0.012 %
39	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 20 kHz	Using Multi Function Calibrator, AC - DC Transfer Standard by Direct Method	2 mV to 220 mV	0.05 % to 0.004 %
40	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 20 kHz	Using Multi Function Calibrator, AC - DC Transfer Standard by Direct Method	220 mV to 1000 V	0.004 % to 0.008 %
41	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 kHz to 1 MHz	Using Multi Function Calibrator, AC - DC Transfer Standard by Direct Method	2 mV to 220 mV	0.13 % to 0.008 %
42	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 kHz to 100 kHz	Using Multi Function Calibrator, AC - DC Transfer Standard by Direct Method	220 V to 600 V	0.005 % to 0.01 %
43	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	0.001 μ F	0.01 %
44	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	0.01 μ F	0.02 %



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45	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	0.1 μ F	0.01 %
46	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	1 μ F	0.02 %
47	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitors by Direct Method	1 μ F to 100 μ F	0.01 % to 0.3 %
48	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using 4 Terminal Standard Capacitor by Direct Method	1 mF	0.25 %
49	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	1 pF	0.01 %
50	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using 4 Terminal Standard Capacitor by Direct Method	10 μ F	0.25 %
51	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using 4 Terminal Standard Capacitor by Direct Method	10 mF	0.25 %



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52	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	10 pF	0.003 %
53	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	100 µF	0.25 %
54	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	100 pF	0.003 %
55	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	1000 pF	0.073 %
56	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 10 kHz to 1 MHz	Using Standard Capacitor by Direct Method	1 pF	0.6 %
57	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 10 kHz to 1 MHz	Using Standard Capacitor by Direct Method	10 pF	0.2 %
58	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 10 kHz to 1 MHz	Using Standard Capacitor by Direct Method	100 pF	0.6 %



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59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 10 kHz to 1 MHz	Using Standard Capacitor by Direct Method	1000 pF	1 %
60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance	Using Standard Resistances and Standard Capacitance by Simulation / Substitution Method	100 H	0.04 %
61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductor by Direct Method	1 H	0.01 %
62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductor by Direct Method	1 mH	0.012 %
63	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductor by Direct Method	10 H	0.03 %
64	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductor by Direct Method	10 mH	0.5 %
65	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductor by Direct Method	100 µH	0.05 %



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66	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductor by Direct Method	100 mH	0.01 %
67	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor (Lag /Lead) @ 45 Hz to 65 Hz (10 V to 550 V, 50 mA to 20 A)	Using MFC by Direct Method	0 to UPF	0.0005 PF
68	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM, Standard Resistor by V / I Method	1 A to 20 A	0.0012 % to 0.005 %
69	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM, Standard Resistor by V / I Method	100 µA to 1 A	0.003 % to 0.0012 %
70	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM, Standard Resistor by V / I Method	100 nA to 100 µA	0.03 % to 0.003 %
71	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM, Std Shunt by V / I Method	20 A to 100 A	0.005 % to 0.035 %
72	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 40 kV	0.05 % to 0.4 %



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73	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Power (1 V to 1000 V, 100 mA to 20 A)	Using Reference Multimeters & MFC by Comparison Method	100 mW to 20 kW	0.005 % to 0.01 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using Reference DMM with calibrator & Std Resistor by Substitution Method	10 kohm to 1 Gohm	0.0005 % to 0.15 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using Reference DMM with Calibrator/Transconductance Amplifier, Std Resistor by Substitution Method	100 µohm to 100 mohm	0.1 % to 0.0004 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using Reference DMM with Calibrator, Std Resistor by Substitution Method	100 mohm to 10 kohm	0.0004 % to 0.0005 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance @ 10 V to 1000 V (2 Wire)	Using Digital Teraohmmeter by Direct Method	20 Gohm to 100 Tohm	0.1 % to 1 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance @ 10V to 1000V (2 Wire)	Using Digital Teraohmmeter by Direct Method	1 Gohm to 20 Gohm	0.015 % to 0.1 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM, DC Reference Standard, Reference Divider by Comparison Method	0.1 mV to 100 mV	0.2 % to 0.0005 %



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80	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM, DC Reference Standard, Reference Divider by Comparison Method	10 V to 1000 V	0.0002 % to 0.0007 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM, DC Ref Standard, Ref Divider by Comparison Method	100 mV to 10 V	0.0005 % to 0.0002 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	10 µA to 100 mA	0.0068 % to 0.003 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC with Current Coil by Direct Method	100 A to 1000 A	0.29 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	100 mA to 20 A	0.003 % to 0.008 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC and Standard Resistor by V / I Method	100 nA to 10 µA	0.2 % to 0.0068 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC and Standard resistor by V / I Method	100 pA to 100 nA	1 % to 0.2 %



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87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC with Transconductance Amplifier by Direct Method	20 A to 100 A	0.008 % to 0.018 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC High Voltage	Using HV Source with DMM Direct Method	1 kV to 40 kV	0.5 % to 1 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (1 V to 1000 V, 100 mA to 20 A)	Using Multi Function Calibrator by Direct Method	100 mW to 20 kW	0.005 % to 0.01 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	1 Gohm	0.01 %
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	1 Tohm	0.065 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	10 Gohm	0.022 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	10 Mohm	0.0039 %



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94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	10 Tohm	0.12 %
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	100 Gohm	0.046 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	100 Mohm	0.0051 %
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	100 Tohm	1 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Reference Resistor by Direct Method	10 kohm	0.00018 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	0.1 mohm	0.025 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Reference Resistor by Direct Method	1 kohm	0.00025 %



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101	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	1 Mohm	0.0007 %
102	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Reference Resistor by Direct Method	1 mohm	0.011 %
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Reference resistor by Direct Method	1 ohm	0.00015 %
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	10 mohm	0.002 %
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Reference Resistor by Direct Method	10 ohm	0.0003 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	100 kohm	0.0005 %
107	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	100 mohm	0.00081 %



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108	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	100 ohm	0.00018 %
109	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC, DC Reference Standard, Reference Divider by Direct Method	1 mV to 100 mV	0.02 % to 0.0005 %
110	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Reference Voltage Standard by Direct Method	1 V to 10 V	0.0002 % to 0.0001 %
111	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC, DC Reference Standard, Reference Divider by Direct Method	10 V to 1000 V	0.0001 % to 0.00077 %
112	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC, DC Reference Standard, Reference Divider by Direct Method	100 µV to 1 mV	0.2 % to 0.02 %
113	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC, DC Reference Standard, Reference Divider by Direct Method	100 mV to 10 V	0.0005 % to 0.0001 %
114	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using 8½ DMM, DC Reference Standard, Reference Divider by Comparison Method	10 V to 1000 V	0.0002 % to 0.0007 %



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115	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Calibration - Bandwidth	Using Oscilloscope Calibrator by Direct Method	50 kHz to 1.1 GHz	4.04 %
116	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Calibration: Deflection Factor (Amplitude) - 1 Mohm @ 10 Hz to 50 kHz	Using Oscilloscope Calibrator by Direct Method	1 mV to 190 V	0.1 % to 0.2 %
117	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Calibration: Deflection Factor (Amplitude) - 50 ohm @ 10 Hz to 50 kHz	Using Oscilloscope Calibrator by Direct Method	1 mV to 5.56 V	0.1 % to 0.2 %
118	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Calibration: Time Base	Using Oscilloscope Calibrator by Direct Method	1 ns to 55 s	0.001 %
119	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Amplitude Modulation Depth (CW : 10 MHz to 2.5 GHz; MF : 30 Hz to 10 kHz)	Using Modulation Analyzer by Direct Method	Depth : 10 % to 95 %	2.4 %
120	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Amplitude Modulation Depth (CW : 10 MHz to 2.5 GHz; MF : 30 Hz to 10 kHz)	Using Signal Generator, Modulation Analyzer by Comparison Method	Depth : 10 % to 95 %	2.4 %



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121	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Attenuation @ 10 MHz to 18 GHz	Using Power Meter and Step Attenuator by Comparison Method	1 dB to 60 dB	0.21 dB to 0.4 dB
122	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Attenuation @ 100 kHz to 10 MHz	Using Power Meter, Step Attenuator by Comparison Method	1 dB to 40 dB	0.2 dB to 0.3 dB
123	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency Modulation Deviation (CW : 10 MHz to 2.5 GHz; MF : 30 Hz to 10 kHz)	Using Signal Generator, Modulation Analyzer by Comparison Method	Deviation :1 kHz to 500 kHz	2 %
124	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency Modulation Deviation (CW : 10 MHz to 2.5 GHz; MF : 30 Hz to 10 kHz)	Using Modulation Analyzer by Direct Method	Deviation: 1 kHz to 500 kHz	2 %
125	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power @ 1 MHz to 1 GHz	Using RF Power Meter, Attenuator by Direct Method	20 mW to 10 W	5 % to 8.5 %
126	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power @ 10 MHz to 18 GHz	Using RF Power Meter, Attenuator by Direct Method	100 nW to 20 mW	3.5% to 4 %



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127	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power @ 10 MHz to 18 GHz	Using RF Power Meter with attenuator, RF signal generator / synthesizer by Comparison Method	100 nW to 20 mW	3.5 % to 4 %
128	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power @ 100 kHz to 10 MHz	Using Reference DMM/RF Power meter, Attenuator by Direct Method	10 µW to 20 mW	3 % to 4 %
129	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power @ 100 kHz to 10 MHz	Using RF Power Meter with RF Signal generator by Comparison Method	10 µW to 20 mW	3 % to 4 %
130	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Attenuation @ 10 MHz to 18 GHz	Using RF Step Attenuator by Direct Method	5 dB to 60 dB	0.21 dB to 0.4 dB
131	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Attenuation @ 10MHz to 2.7 GHz	Using Step Attenuator by Direct Method	1 dB to 60 dB	0.21 dB to 0.45 dB
132	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Universal Frequency Counter / Timer (Externally Locked with rubidium standard / Oscillator) by Comparison Method	0.01 Hz to 40 GHz	0.000003 % to 0.00000005 %



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133	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Universal Frequency Counter, Timer by Direct Method	1 s to 3600 s	0.00001 %
134	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using RF Signal Generator (Externally Locked with Reference Rubidium Frequency Standard / Oscillator) by Comparison Method	0.01 Hz to 20 GHz	0.000003 % to 0.000000005 %
135	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Reference Rubidium Frequency Standard / Oscillator by Direct Method	1 MHz	0.000000005 %
136	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Reference Rubidium Frequency Standard / Oscillator by Direct Method	10 MHz	0.000000005 %
137	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Reference Rubidium Frequency Standard / Oscillator by Direct Method	100 kHz	0.000000005 %
138	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Reference Rubidium Frequency Standard / Oscillator by Direct Method	5 MHz	0.000000005 %
139	MECHANICAL-ACOUSTICS	Acoustics Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB	0.35 dB



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140	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge - Plunger type (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	0 to 25 mm	0.003 mm
141	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Calliper (L.C.: 0.01 mm)	Using Slip Gauge Set by Comparison Method	0 to 300 mm	0.016 mm
142	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micro meter (External) (L.C.: 0.001 mm)	Using Slip Gauge Set by Comparison Method	0 to 25 mm	0.003 mm
143	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer (External) (L.C.: 0.01 mm)	Using Slip Gauge Set by Comparison Method	0 to 25 mm	0.015 mm
144	MECHANICAL-PRESSURE INDICATING DEVICES	Dead Weight Testers (Hydraulic)	Using Pressure balance DWT by Cross float method as Per Euramet cg-3	3 bar(g) to 50 bar(g)	0.010 % of rdg
145	MECHANICAL-PRESSURE INDICATING DEVICES	Dead Weight Testers (Hydraulic)	Using Pressure balance DWT by Cross float method as Per Euramet cg-3	50 bar(g) to 700 bar(g)	0.009 % of rdg
146	MECHANICAL-PRESSURE INDICATING DEVICES	Digital Pressure Calibrator (Pneumatic)	Using DWT Dual Range, Pressure balance by Comparison Method as Per DKD-R 6-1:	0.5 bar(g) to 13.5 bar(g)	0.06 % of rdg



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147	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure calibrator & Pressure Gauges (Pneumatic)	Using Portable Pressure Calibrator by Comparison Method as Per DKD-R 6-1	0.10 bar (abs) to 7 bar (abs)	0.058 % of rdg
148	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure calibrator & Pressure Gauges (Pneumatic)	Using DWT, Pressure balance by Comparison Method as Per DKD-R 6-1	13.5 bar(g) to 200 bar(g)	0.032 % of rdg
149	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Calibrators & Pressure Gauges (Pneumatic)	Using Pressure Calibrator by Comparison method as Per DKD-R 6-1	(-) 0.95 bar(g) to (-) 0.10 bar(g)	0.086 % of rdg
150	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure calibrators & Pressure Gauges (Hydraulic)	Using DW tester (Hydraulic) by Comparison Method as Per DKD-R 6-1	3 bar to 700 bar(g)	0.02 % of rdg
151	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class III (Readability : 0.1 g)	Using Standard E2 Class weights by Comparison Method as Per OIML R 76-1	200 g to 12 kg	0.07 g
152	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class III (Readability : 2 g)	Using Standard E2 Class weights by Comparison Method as Per OIML R 76-1	12 kg to 22 kg	2.2 g
153	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale and balance - Class I (Readability : 0.01 mg)	Using Standard E1 Class weights by Comparison Method as Per OIML R 76-1	1 mg to 200 g	0.08 mg
154	MECHANICAL-WEIGHTS	Weights F1 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OIML R 111-1	50 g	0.061 mg



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155	MECHANICAL-WEIGHTS	Weights F1 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	10 g	0.042 mg
156	MECHANICAL-WEIGHTS	Weights F1 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	100 g	0.1 mg
157	MECHANICAL-WEIGHTS	Weights F1 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	20 g	0.051 mg
158	MECHANICAL-WEIGHTS	Weights F1 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	200 mg	0.015 mg



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159	MECHANICAL-WEIGHTS	Weights F1 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	50 mg	0.013 mg
160	MECHANICAL-WEIGHTS	Weights F1 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	500 mg	0.018 mg
161	MECHANICAL-WEIGHTS	Weights F1 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	1 g	0.022 mg
162	MECHANICAL-WEIGHTS	Weights F1 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	100 mg	0.013 mg



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163	MECHANICAL-WEIGHTS	Weights F1 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	2 g	0.03 mg
164	MECHANICAL-WEIGHTS	Weights F1 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	200 g	0.2 mg
165	MECHANICAL-WEIGHTS	Weights F1 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	5 g	0.033 mg
166	MECHANICAL-WEIGHTS	Weights F2 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	10 mg	0.013 mg



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167	MECHANICAL- WEIGHTS	Weights F2 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1:	20 mg	0.013 mg
168	MECHANICAL- WEIGHTS	Weights F2 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	1 mg	0.013 mg
169	MECHANICAL- WEIGHTS	Weights F2 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	2 mg	0.013 mg
170	MECHANICAL- WEIGHTS	Weights F2 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.01 mg) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	5 mg	0.013 mg



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171	MECHANICAL- WEIGHTS	Weights M2 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.1 g) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	5 kg	0.12 g
172	MECHANICAL- WEIGHTS	Weights M2 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.1 g) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	10 kg	0.2 g
173	MECHANICAL- WEIGHTS	Weights M3 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.1 g) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	2 kg	0.12 g
174	MECHANICAL- WEIGHTS	Weights M3 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.1 g) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	500 g	82 mg



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175	MECHANICAL-WEIGHTS	Weights M3 Accuracy Class and Coarser	Using Standard Weights E2 Class & Electronics Balances (Readability : 0.1 g) by substitution method (ABBA weighing cycle) as per OMIL R 111-1	1 kg	0.12 g
176	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity / Temperature Indicator with sensor of Chamber	Using Relative Humidity - Temperature indicator with sensor by Comparison Method	20 %rh to 95 %rh @ 10 °C to 55 °C	1 %rh
177	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Temperature Indicator with sensor @ 20 %rh to 95 %rh	Using Relative Humidity - Temperature indicator with Humidity - Temperature chamber by Comparison Method	20 °C to 55 °C	0.3 °C
178	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity/ Temperature Indicator with sensor	Using Relative Humidity - Temperature indicator with Humidity - Temperature chamber by Comparison Method	20 %rh to 95 %rh @ 20 °C to 55 °C	1.3 %rh
179	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT, Digital Thermometer and Liquid Bath by Comparison Method	20 °C to 200 °C	0.3 °C
180	THERMAL-TEMPERATURE	RTD / Thermocouple / PRT with or without indicator	Using SPRT, Digital Thermometer and Dry block bath by Comparison Method	200 °C to 660 °C	0.15 °C



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181	THERMAL-TEMPERATURE	RTD / Thermocouple / PRT with or without indicator, Data Logger with Sensor	Using SPRT, Digital Thermometer and High Precision Temperature Bath by Comparison Method	(-) 80 °C to 25 °C	0.05 °C
182	THERMAL-TEMPERATURE	RTD / Thermocouple / PRT with or without indicator, Data Logger with Sensor	Using SPRT, Digital Thermometer and Liquid Bath by Comparison Method	25 °C to 200 °C	0.06 °C
183	THERMAL-TEMPERATURE	Temperature chamber, Oven, freezer, (Multiposition Calibration)	Using Temp. Calibrator with RTD sensors (Minimum 9 Sensors) by Comparison Method	(-) 80 °C to 200 °C	0.6 °C
184	THERMAL-TEMPERATURE	Temperature indicator with sensor of dry block (Single Position calibration)	Using SPRT Hart, Digital Thermometer by Comparison Method	50 °C to 660 °C	0.15 °C
185	THERMAL-TEMPERATURE	Temperature indicator with sensor of Dry block / furnace (Single Position Calibration)	Using 'S' type Thermocouple with indicator by Comparison Method	200 °C to 1000 °C	1.2 °C
186	THERMAL-TEMPERATURE	Temperature Indicator with sensor of liquid bath (Single Position Calibration)	Using SPRT, Digital Thermometer By Comparison Method	(-) 80 °C to 200 °C	0.06 °C
187	THERMAL-TEMPERATURE	Thermocouple with or without indicator	Using S Type Thermocouple, Digital Thermometer, Furnace and zero reference bath by Comparison Method	200 °C to 1000 °C	1.21 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase 2 wire AC Active Energy @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	1.59 Wh to 55 kWh	0.011 % to 0.032 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase 2 wire AC Active Energy @ 45 Hz to 60 Hz {120 V to 240 V, 5 A, 0.1(Lead/Lag)}	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	60 Wh to 120 Wh	0.02 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase 2 wire AC Active Power @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	1.59 W to 55 kW	0.012 % to 0.032 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase 2 wire AC Active Power @ 45 Hz to 60 Hz {120 V to 240 V, 5 A, 0.1(Lead/Lag)}	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	60 W to 120 W	0.02 %
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase 2 wire AC Apparent Power @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	3.18 VA to 55 kVA	0.011 % to 0.032 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase 2 wire AC Reactive Energy @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	1.59 VARh to 55 kVARh	0.012 % to 0.032 %



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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase 2 wire AC Reactive Power @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	1.59 VAR to 55 kVAR	0.011 % to 0.032 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 wire AC Active Energy @ 45 Hz to 60 Hz {120 V to 240 V, 5 A, 0.1(Lead/Lag)}	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	180 Wh to 360 Wh	0.02 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 phase 4 wire AC Active Energy @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	4.77 Wh to 165 kWh	0.011 % to 0.032 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 wire AC Active Power @ 45 Hz to 60 Hz (120 V, 5 A, 0.1(Lead/Lag)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	180 W to 360 W	0.02 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 phase 4 wire AC Active Power @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	4.77 W to 165 kW	0.011 % to 0.032 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 wire AC Apparent Power @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	9.54 VA to 165 kVA	0.011 % to 0.032 %



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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 phase 4 wire AC Reactive Energy @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	4.77 VARh to 165 kVARh	0.012 % to 0.032 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 phase 4 wire AC Reactive Power @ 45 Hz to 60 Hz (63.5 V to 550 V, 50 mA to 100 A, 0.5 (Lead/Lag) to UPF)	Using Power Energy Standard, Power Energy Reference Meter by Direct / Comparison Method	4.77 VAR to 165 kVAR	0.011 % to 0.032 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 10 kHz	Using Current Shunt, AC - DC Transfer Standard, AC Measurement Standard & DMM by Comparison Method	1 A to 20 A	0.015 % to 0.02 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 10 kHz	Using Current Shunt, AC - DC Transfer Standard, AC Measurement Standard & DMM by Comparison Method	10 µA to 1 A	0.05 % to 0.015 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 10 Hz to 50 Hz	Using DMM & Shunt by V / I Method	20 A to 100 A	0.02 % to 0.1 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 45 Hz to 400 Hz	Using AC Current Probe with DMM by Direct Method	10 A to 1000 A	0.1 % to 1 %



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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe with DMM by Direct Method	1 kV to 28 kV	0.71 % to 1 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 1 MHz	Using DMM, AC - DC Transfer Standard by Direct Method	2 mV to 22 mV	0.13 % to 0.01 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 1 MHz	Using DMM, AC - DC Transfer Standard by Direct Method	22 mV to 700 mV	0.01 % to 0.014 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 1 MHz	Using DMM, AC - DC Transfer Standard by Direct Method	700 mV to 22 V	0.014 % to 0.005 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 100 kHz	Using DMM, AC - DC Transfer Standard by Direct Method	22 V to 1000 V	0.002 % to 0.01 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using LCR Bridge / Meter, 4T Standard Capacitor by Substitution Method	1 μ F to 1 mF	0.02 % to 0.5 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Capacitance Bridge, Standard Capacitor by Substitution Method	1 pF to 1000 pF	0.02 % to 0.002 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Capacitance Bridge, LCR Bridge, Standard Capacitor, DMM by Substitution Method	1000 pF to 100 µF	0.002 % to 0.3 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using LCR Digibridge by Direct Method	100 µH to 10 H	0.05 % to 0.052 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance @ 1 kHz	Using Standard Resistor and Standard Capacitor (for 100 H Simulation) & LCR Digi bridge / Meter by Direct /Substitution Method	100 H	0.05 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor (Lag/Lead) @ 45 Hz to 65 Hz (10 V to 600 V, 50 mA to 100 A)	Using Digital Power Energy Meter by Direct Method	0 to UPF	0.0006 PF
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Resistance @ 1 kHz	Using LCR Digi Bridge by Direct Method	1 ohm to 100 kohm	0.01 % to 0.02 %

This is annexure to 'Certificate of Accreditation' and does not require any signature.



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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 10 kHz	Using Multi Function Calibrator, Current Shunt, AC - DC Transfer Standard by Direct Method	10 µA to 22 mA	0.1 % to 0.015 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 50 Hz	Using Transconductance Amplifier & Multi Function Calibrator by Direct Method	20 A to 100 A	0.015 % to 0.2 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 40 Hz to 10 kHz	Using Multi Function Calibrator, Current Shunt, AC - DC Transfer Standard by Direct Method	22 mA to 2.2 A	0.011 % to 0.013 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 40 Hz to 10 kHz	Using Multi Function Calibrator, Current Shunt, AC - DC Transfer Standard by Direct Method	2.2 A to 20 A	0.013 % to 0.02 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 40 Hz to 65 Hz	Using MFC with Transconductance Current Amplifier, Shunt by Direct Method	100 A	0.21 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator with Current Coil by Direct Method	10 A to 1000 A	0.5 % to 0.62 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Reference AC/DC Resistors by Direct Method	1 ohm to 10 kohm	0.006 % to 0.001 %



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38	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Reference AC/DC Resistors by Direct method	10 kohm to 100 kohm	0.001 % to 0.012 %
39	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 20 kHz	Using Multi Function Calibrator, AC - DC Transfer Standard by Direct Method	2 mV to 220 mV	0.05 % to 0.004 %
40	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 20 kHz	Using Multi Function Calibrator, AC - DC Transfer Standard by Direct Method	220 mV to 1000 V	0.004 % to 0.008 %
41	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 kHz to 1 MHz	Using Multi Function Calibrator, AC - DC Transfer Standard by Direct Method	2 mV to 220 mV	0.13 % to 0.008 %
42	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 kHz to 100 kHz	Using Multi Function Calibrator, AC - DC Transfer Standard by Direct Method	220 V to 600 V	0.005 % to 0.01 %
43	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	0.001 μ F	0.01 %
44	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	0.01 μ F	0.02 %



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45	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	0.1 μ F	0.01 %
46	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	1 μ F	0.02 %
47	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitors by Direct Method	1 μ F to 100 μ F	0.01 % to 0.3 %
48	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using 4 Terminal Standard Capacitor by Direct Method	1 mF	0.25 %
49	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	1 pF	0.01 %
50	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using 4 Terminal Standard Capacitor by Direct Method	10 μ F	0.25 %
51	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using 4 Terminal Standard Capacitor by Direct Method	10 mF	0.25 %



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52	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	10 pF	0.003 %
53	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	100 µF	0.25 %
54	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	100 pF	0.003 %
55	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor by Direct Method	1000 pF	0.073 %
56	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 10 kHz to 1 MHz	Using Standard Capacitor by Direct Method	1 pF	0.6 %
57	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 10 kHz to 1 MHz	Using Standard Capacitor by Direct Method	10 pF	0.2 %
58	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance @ 10 kHz to 1 MHz	Using Standard Capacitor by Direct Method	100 pF	0.6 %



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59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 10 kHz to 1 MHz	Using Standard Capacitor by Direct Method	1000 pF	1 %
60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance	Using Standard Resistances and Standard Capacitance by Simulation / Substitution Method	100 H	0.04 %
61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductor by Direct Method	1 H	0.01 %
62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductor by Direct Method	1 mH	0.012 %
63	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductor by Direct Method	10 H	0.03 %
64	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductor by Direct Method	10 mH	0.5 %
65	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductor by Direct Method	100 µH	0.05 %



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66	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Standard Inductor by Direct Method	100 mH	0.01 %
67	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor (Lag /Lead) @ 45 Hz to 65 Hz (10 V to 550 V, 50 mA to 20 A)	Using MFC by Direct Method	0 to UPF	0.0005 PF
68	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM, Standard Resistor by V / I Method	1 A to 20 A	0.0012 % to 0.005 %
69	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM, Standard Resistor by V / I Method	100 µA to 1 A	0.003 % to 0.0012 %
70	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM, Standard Resistor by V / I Method	100 nA to 100 µA	0.03 % to 0.003 %
71	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM, Std Shunt by V / I Method	20 A to 100 A	0.005 % to 0.035 %
72	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe with DMM by Direct Method	1 kV to 40 kV	0.05 % to 0.4 %



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73	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Power (1 V to 1000 V, 100 mA to 20 A)	Using Reference Multimeters & MFC by Comparison Method	100 mW to 20 kW	0.005 % to 0.01 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using Reference DMM with calibrator & Std Resistor by Substitution Method	10 kohm to 1 Gohm	0.0005 % to 0.15 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using Reference DMM with Calibrator/Transconductance Amplifier, Std Resistor by Substitution Method	100 µohm to 100 mohm	0.1 % to 0.0004 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using Reference DMM with Calibrator, Std Resistor by Substitution Method	100 mohm to 10 kohm	0.0004 % to 0.0005 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance @ 10 V to 1000 V (2 Wire)	Using Digital Teraohmmeter by Direct Method	20 Gohm to 100 Tohm	0.1 % to 1 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance @ 10V to 1000V (2 Wire)	Using Digital Teraohmmeter by Direct Method	1 Gohm to 20 Gohm	0.015 % to 0.1 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM, DC Reference Standard, Reference Divider by Comparison Method	0.1 mV to 100 mV	0.2 % to 0.0005 %



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80	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM, DC Reference Standard, Reference Divider by Comparison Method	10 V to 1000 V	0.0002 % to 0.0007 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM, DC Ref Standard, Ref Divider by Comparison Method	100 mV to 10 V	0.0005 % to 0.0002 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	10 µA to 100 mA	0.0068 % to 0.003 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC with Current Coil by Direct Method	100 A to 1000 A	0.29 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC by Direct Method	100 mA to 20 A	0.003 % to 0.008 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC and Standard Resistor by V / I Method	100 nA to 10 µA	0.2 % to 0.0068 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC and Standard resistor by V / I Method	100 pA to 100 nA	1 % to 0.2 %



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87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using MFC with Transconductance Amplifier by Direct Method	20 A to 100 A	0.008 % to 0.018 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Power (1 V to 1000 V, 100 mA to 20 A)	Using Multi Function Calibrator by Direct Method	100 mW to 20 kW	0.005 % to 0.01 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	1 Gohm	0.01 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	1 Tohm	0.065 %
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	10 Gohm	0.022 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	10 Mohm	0.0039 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	10 Tohm	0.12 %



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94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	100 Gohm	0.046 %
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	100 Mohm	0.0051 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor by Direct Method	100 Tohm	1 %
97	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Reference Resistor by Direct Method	10 kohm	0.00018 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	0.1 mohm	0.025 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Reference Resistor by Direct Method	1 kohm	0.00025 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	1 Mohm	0.0007 %



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101	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Reference Resistor by Direct Method	1 mohm	0.011 %
102	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Reference resistor by Direct Method	1 ohm	0.00015 %
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	10 mohm	0.002 %
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Reference Resistor by Direct Method	10 ohm	0.0003 %
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	100 kohm	0.0005 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	100 mohm	0.00081 %
107	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor by Direct Method	100 ohm	0.00018 %



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108	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC, DC Reference Standard, Reference Divider by Direct Method	1 mV to 100 mV	0.02 % to 0.0005 %
109	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Reference Voltage Standard by Direct Method	1 V to 10 V	0.0002 % to 0.0001 %
110	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC, DC Reference Standard, Reference Divider by Direct Method	10 V to 1000 V	0.0001 % to 0.00077 %
111	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC, DC Reference Standard, Reference Divider by Direct Method	100 µV to 1 mV	0.2 % to 0.02 %
112	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using MFC, DC Reference Standard, Reference Divider by Direct Method	100 mV to 10 V	0.0005 % to 0.0001 %
113	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Voltage	Using 8½ DMM, DC Reference Standard, Reference Divider by Comparison Method	10 V to 1000 V	0.0002 % to 0.0007 %
114	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Calibration - Bandwidth	Using Oscilloscope Calibrator by Direct Method	50 kHz to 1.1 GHz	4.04 %



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115	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Calibration: Deflection Factor (Amplitude) - 1 Mohm @ 10 Hz to 50 kHz	Using Oscilloscope Calibrator by Direct Method	1 mV to 190 V	0.1 % to 0.2 %
116	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Calibration: Deflection Factor (Amplitude) - 50 ohm @ 10 Hz to 50 kHz	Using Oscilloscope Calibrator by Direct Method	1 mV to 5.56 V	0.1 % to 0.2 %
117	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Calibration: Time Base	Using Oscilloscope Calibrator by Direct Method	1 ns to 55 s	0.001 %
118	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Amplitude Modulation Depth (CW : 10 MHz to 2.5 GHz; MF : 30 Hz to 10 kHz)	Using Modulation Analyzer by Direct Method	Depth : 10 % to 95 %	2.4 %
119	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Amplitude Modulation Depth (CW : 10 MHz to 2.5 GHz; MF : 30 Hz to 10 kHz)	Using Signal Generator, Modulation Analyzer by Comparison Method	Depth : 10 % to 95 %	2.4 %
120	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Attenuation @ 10 MHz to 18 GHz	Using Power Meter and Step Attenuator by Comparison Method	1 dB to 60 dB	0.21 dB to 0.4 dB



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121	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Attenuation @ 100 kHz to 10 MHz	Using Power Meter, Step Attenuator by Comparison Method	1 dB to 40 dB	0.2 dB to 0.3 dB
122	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency Modulation Deviation (CW : 10 MHz to 2.5 GHz; MF : 30 Hz to 10 kHz)	Using Signal Generator, Modulation Analyzer by Comparison Method	Deviation :1 kHz to 500 kHz	2 %
123	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	Frequency Modulation Deviation (CW : 10 MHz to 2.5 GHz; MF : 30 Hz to 10 kHz)	Using Modulation Analyzer by Direct Method	Deviation: 1 kHz to 500 kHz	2 %
124	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power @ 1 MHz to 1 GHz	Using RF Power Meter, Attenuator by Direct Method	20 mW to 10 W	5 % to 8.5 %
125	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power @ 10 MHz to 18 GHz	Using RF Power Meter, Attenuator by Direct Method	100 nW to 20 mW	3.5% to 4 %
126	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power @ 10 MHz to 18 GHz	Using RF Power Meter with attenuator, RF signal generator / synthesizer by Comparison Method	100 nW to 20 mW	3.5 % to 4 %



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127	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power @ 100 kHz to 10 MHz	Using Reference DMM/RF Power meter, Attenuator by Direct Method	10 μ W to 20 mW	3 % to 4 %
128	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure)	RF Power @ 100 kHz to 10 MHz	Using RF Power Meter with RF Signal generator by Comparison Method	10 μ W to 20 mW	3 % to 4 %
129	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Attenuation @ 10 MHz to 18 GHz	Using RF Step Attenuator by Direct Method	5 dB to 60 dB	0.21 dB to 0.4 dB
130	ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source)	Attenuation @ 10MHz to 2.7 GHz	Using Step Attenuator by Direct Method	1 dB to 60 dB	0.21 dB to 0.45 dB
131	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Universal Frequency Counter / Timer (Externally Locked with rubidium standard / Oscillator) by Comparison Method	0.01 Hz to 40 GHz	0.000003 % to 0.000000005 %
132	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Universal Frequency Counter, Timer by Direct Method	1 s to 3600 s	0.00001 %



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133	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using RF Signal Generator (Externally Locked with Reference Rubidium Frequency Standard / Oscillator) by Comparison Method	0.01 Hz to 20 GHz	0.000003 % to 0.000000005 %
134	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Reference Rubidium Frequency Standard / Oscillator by Direct Method	1 MHz	0.000000005 %
135	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Reference Rubidium Frequency Standard / Oscillator by Direct Method	10 MHz	0.000000005 %
136	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Reference Rubidium Frequency Standard / Oscillator by Direct Method	100 kHz	0.000000005 %
137	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Reference Rubidium Frequency Standard / Oscillator by Direct Method	5 MHz	0.000000005 %
138	MECHANICAL-ACOUSTICS	Acoustics Sound Level Meter @ 1 kHz	Using Sound Level Calibrator by Direct Method	94 dB	0.35 dB
139	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class III (Readability : 0.1 g)	Using Standard E2 Class weights by Comparison Method as Per OIML R 76-1	200 g to 12 kg	0.07 g



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140	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale & Balance - Class III (Readability : 2 g)	Using Standard E2 Class weights by Comparison Method as Per OIML R 76-1	12 kg to 22 kg	2.2 g
141	MECHANICAL-WEIGHING SCALE AND BALANCE	Weighing Scale and balance - Class I (Readability : 0.01mg)	Using Standard E1 Class weights by Comparison Method as Per OIML R 76-1	1 mg to 200 g	0.08 mg
142	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity / Temperature Indicator with sensor of Chamber	Using Relative Humidity - Temperature indicator with sensor by Comparison Method	20 %rh to 95 %rh @ 10 °C to 55 °C	1.3 %rh
143	THERMAL-TEMPERATURE	RTD / Thermocouple / PRT with or without indicator, Data Logger with Sensor	Using SPRT, Digital Thermometer, High Precision Temp. Bath by Comparison Method	20 °C to 200 °C	0.06 °C
144	THERMAL-TEMPERATURE	Temperature chamber, Oven, freezer, (Multiposition Calibration)	Using Temp. Calibrator with RTD sensors (Minimum 9 Sensors) by Comparison Method	(-) 80 °C to 200 °C	0.6 °C
145	THERMAL-TEMPERATURE	Temperature indicator with sensor of Dry block / furnace (Single Position Calibration)	Using S type Thermocouple with indicator by Comparison Method	200 °C to 1000 °C	1.4 °C
146	THERMAL-TEMPERATURE	Temperature Indicator with sensor of dry block bath (Single Position Calibration)	Using SSPRT, Digital Thermometer by Comparison Method	25 °C to 660 °C	0.2 °C



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147	THERMAL-TEMPERATURE	Temperature Indicator with sensor of liquid bath (Single Position Calibration)	Using SPRT, Digital Thermometer by Comparison Method	20 °C to 200 °C	0.06 °C
148	THERMAL-TEMPERATURE	Thermocouple with or without indicator	Using S Type Thermocouple, Digital Thermometer, Furnace and zero reference bath by Comparison Method	200 °C to 1000 °C	1.4 °C

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