



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : ELECTRONICS TEST AND DEVELOPMENT CENTRE, TARAMANI LINK ROAD, DR. VSI ESTATE, PART II, THIRUVANMIYUR, CHENNAI, TAMIL NADU, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 20/07/2026 to 19/07/2030 **Last Amended on** 29/08/2026

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)($\pm$)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Active Energy @ 50 Hz (60 V to 240 V, 10 mA to 100 A, 0.5 (Lead/Lag) PF to UPF)	Using Test Bench with Three Phase Comparator By Direct Method	0.3 Wh to 24 kWh	0.014 % to 0.026 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Active Power @ 50 Hz (60 V to 240 V, 10 mA to 100 A, 0.5 (Lead/Lag) PF to UPF)	Using Test Bench with Three Phase Comparator By Direct Method	0.3 W to 24 kW	0.025 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Reactive Energy @ 50 Hz (60 V to 240 V, 10 mA to 100 A, 0.5 (Lead/Lag) PF to UPF)	Using Test Bench with Three Phase Comparator By Direct Method	0.3 Varh to 24 kVarh	0.014 % to 0.026 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	1 Phase AC Reactive Power @ 50Hz (60 V to 240 V, 10 mA to 100 A, 0.5 (Lead/Lag) PF to UPF)	Using Test Bench with Three Phase Comparator By Direct Method	0.3 Var to 24 kVar	0.025 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 wire AC Reactive Energy @ 50 Hz (60 V to 240 V, 10 mA to 100 A, 0.5 (Lead/Lag) PF to UPF)	Using Test Bench with Three Phase Comparator By Direct Method	1 VARh to 72 kVARh	0.014 % to 0.026 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 wire AC Active Power @ 50 Hz (60 V to 240 V, 10 mA to 100 A, 0.5 (Lead/Lag) PF to UPF)	Using Test Bench with Three Phase Comparator By Direct Method	1 W to 72 kW	0.025 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 wire AC Active Energy @ 50 Hz, (60 V to 240 V, 10 mA to 100 A, 0.5 (Lead/Lag) PF to UPF)	Using Test Bench with Three Phase Comparator By Direct Method	1 Wh to 72 kWh	0.014 % to 0.026 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 wire AC Reactive Power @ 50Hz (60 V to 240 V, 10 mA to 100 A, 0.5 (Lead/Lag) PF to UPF)	Using Test Bench with Three Phase Comparator By Direct Method	1 VAR to 72 kVAR	0.025 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to 5 kHz	Using AC Measurement Standard By Direct Method	1 A to 10 A	0.023 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to 5 kHz	Using 8½ Digit Reference Multimeter By Direct Method	10 A to 19.9 A	0.012 % to 0.11 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to 5 kHz	Using AC Measurement Standard By Direct Method	100 µA to 1 A	0.023 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 8½ Digit Reference Multimeter By Direct Method	1 A to 10 A	0.013 % to 0.012 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 8½ Digit Reference Multimeter By Direct Method	10 A to 19.9 A	0.012 % to 0.011 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using AC Measurement Standard By Direct Method	100 µA to 1 A	0.014 % to 0.012 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 5 kHz to 10 kHz	Using 8½ Digit Reference Multimeter By Direct Method	1 A to 10 A	0.11 % to 0.017 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 5 kHz to 10 kHz	Using 8½ Digit Reference Multimeter By Direct Method	10 mA to 1 A	0.059 % to 0.11 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Three Phase Comparator By Direct Method	50 mA to 100 A	0.02 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Resistance @ 1 kHz	Using Digital LCR Meter By Direct Method	1000 mohm to 10 kohm	0.05 % to 0.06 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 10 kHz	Using AC Measurement standard By Direct Method	1 mV to 10 mV	0.26 % to 0.037 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 10 kHz	Using AC Measurement Standard By Direct Method	1 V to 100 V	0.0037 % to 0.0047 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 10 kHz	Using AC Measurement Standard By Direct Method	10 mV to 100 mV	0.037 % to 0.0063 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 10 kHz	Using AC Measurement Standard By Direct Method	100 mV to 1 V	0.0063 % to 0.0037 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 10 kHz	Using AC Measurement Standard By Direct Method	100 V to 1000 V	0.0047 % to 0.0075 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 40 Hz	Using AC Measurement Standard By Direct Method	1 mV to 10 mV	0.46 % to 0.087 %



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 40 Hz	Using AC Measurement Standard By Direct Method	1 V to 100 V	0.016 % to 0.030 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 40 Hz	Using AC Measurement Standard By Direct Method	10 mV to 100 mV	0.087 % to 0.030 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 40 Hz	Using AC Measurement Standard By Direct Method	100 mV to 1 V	0.030 % to 0.016 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 Hz to 40 Hz	Using AC Measurement Standard By Direct Method	100 V to 1000 V	0.030 % to 0.012 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 20 kHz	Using AC Measurement standard By Direct Method	100 V to 1000 V	0.011 % to 0.02 %



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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 30 kHz	Using AC Measurement standard By Direct Method	1 mV to 10 mV	0.3 % to 0.044 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 30 kHz	Using AC Measurement standard By Direct Method	1 V to 100 V	0.026 % to 0.011 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 30 kHz	Using AC Measurement standard By Direct Method	10 mV to 100 mV	0.044 % to 0.024 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 10 kHz to 30 kHz	Using AC Measurement standard By Direct Method	100 mV to 1 V	0.024 % to 0.026 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 100 kHz to 1 MHz	Usign 8½ Digit Reference Multimeter By Direct Method	1 V to 10 V	0.14 %



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35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 30 kHz to 100 kHz	Using AC Measurement Standard By Direct Method	1 mV to 10 mV	0.35 % to 0.065 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 30 kHz to 100 kHz	Using AC Measurement Standard By Direct Method	1 V to 100 V	0.024 % to 0.014 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 30 kHz to 100 kHz	Using AC Measurement Standard By Direct Method	10 mV to 100 mV	0.065 % to 0.030 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 30 kHz to 100 kHz	Using AC Measurement standard By Direct Method	100 mV to 1 V	0.030 % to 0.024 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40 Hz to 1 kHz	Using AC Measurement Standard By Direct Method	1 mV to 10 mV	0.26 % to 0.03 %



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40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40 Hz to 1 kHz	Using AC Measurement Standard By Direct Method	1 V to 100 V	0.0041 % to 0.0044 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40 Hz to 1 kHz	Using AC Measurement Standard By Direct Method	10 mV to 100 mV	0.03 % to 0.0063 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40 Hz to 1 kHz	Using AC Measurement standard By Direct Method	100 mV to 1 V	0.0063 % to 0.0041 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40 Hz to 1 kHz	Using AC Measurement standard By Direct Method	100 V to 1000 V	0.0044 % to 0.014 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using High Voltage Probe With Digital Multimeter By Direct Method	1 kV to 10 kV	5.92 %



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45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Using Digital LCR Meter By Direct Method	1 pF to 1000 µF	0.35 % to 0.15 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Inductance at 1 kHz	Using Digital LCR Meter By Direct Method	100 µH to 10 H	0.13 % to 0.12 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Phase Angle (Power Factor) 50 Hz, 240 V, 1 A	Using 3 Phase Power Analyzer, Three Phase Comparator By Direct Method	0.2 PF to 1 PF	0.0006 PF
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multiproduct Calibrator By Direct Method	1 A to 20 A	0.068 % to 3.50 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multifunction Calibrator By Direct Method	20 µA to 200 µA	0.024 % to 0.058 %



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50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multifunction Calibrator By Direct Method	200 µA to 200 mA	0.058 % to 0.035 %
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multifunction Calibrator By Direct Method	200 mA to 2 A	0.035 % to 0.058 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 1 kHz	Using Multiproduct Calibrator By Direct Method	1 A to 10 A	0.05 % to 0.13 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 10 Hz to 1 kHz	Using Multifunction Calibrator By Direct Method	200 µA to 2 A	0.031 %
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 40 Hz to 1 kHz	Using Multiproduct Calibrator By Direct Method	10 A to 20 A	0.17 % to 0.20 %
55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 5 kHz to 10 kHz	Using Multifunction Calibrator By Direct Method	20 µA to 200 mA	0.03 % to 0.13 %



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56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 5 kHz to 10 kHz	Using Multifunction Calibrator By Direct Method	200 mA to 2 A	0.13 % to 0.82 %
57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator with Current Coil (10 Turn) By Direct Method	20 A to 200 A	0.60 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator with Current Coil (50 Turn) By Direct Method	200 A to 1000 A	0.77 % to 0.6 %
59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Three Phase Comparator By Direct Method	50 mA to 100 A	0.025 %
60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Reference Resistor By Direct Method	1 kohm	0.0066 %
61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Reference Resistor By Direct Method	10 kohm	0.0066 %



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62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Reference Resistor By Direct Method	10 ohm	0.0071 %
63	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Resistance @ 1 kHz	Using Standard Reference Resistor By Direct Method	100 ohm	0.0066 %
64	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 18 kHz	Using Multiproduct Calibrator By Direct Method.	200 V to 300 V	0.0065 % to 0.032 %
65	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 20 kHz	Using Multifunction Calibrator By Direct Method	2 mV to 20 mV	0.30 % to 0.034 %
66	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 20 kHz	Using Multifunction Calibrator By Direct Method	2 V to 200 V	0.0053 % to 0.0065 %
67	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 20 kHz	Using Multifunction Calibrator By Direct Method	20 mV to 200 mV	0.034 % to 0.011 %



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68	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 20 kHz	Using Multifunction Calibrator By Direct Method	200 mV to 2 V	0.011 % to 0.0053 %
69	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 20 Hz	Using Multifunction Calibrator By Direct Method	2 mV to 20 mV	0.26 % to 0.075 %
70	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 20 Hz	Using Multifunction Calibrator By Direct Method	2 V to 200 V	0.03 % to 0.038 %
71	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 20 Hz	Using Multifunction Calibrator By Direct Method	20 mV to 200 mV	0.075 % to 0.035 %
72	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 20 Hz	Using Multifunction Calibrator By Direct Method	200 mV to 2 V	0.035 % to 0.03 %
73	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 100 kHz to 450 kHz	Using Multiproduct Calibrator By Direct Method	30 mV to 3 V	1.12 % to 0.31 %



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74	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 Hz to 40 Hz	Using Multifunction Calibrator By Direct Method	2 mV to 20 mV	0.26 % to 0.051 %
75	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 Hz to 40 Hz	Using Multifunction Calibrator By Direct Method	20 mV to 200 mV	0.051 % to 0.035 %
76	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 Hz to 40 Hz	Using Multifunction Calibrator By Direct Method	200 mV to 200 V	0.035 % to 0.012 %
77	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 kHz to 50 kHz	Using Multiproduct Calibrator By Direct Method	3 V to 100 V	0.037 % to 0.044 %
78	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 kHz to 50 kHz	Using Multiproduct Calibrator By Direct Method	30 mV to 300 mV	0.05 % to 0.044 %
79	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 kHz to 50 kHz	Using Multiproduct Calibrator By Direct Method	300 mV to 3 V	0.044 % to 0.037 %



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80	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 40 Hz to 1 kHz	Using Multifunction Calibrator By Direct Method	1 mV to 20 mV	0.41 % to 0.034 %
81	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 40 Hz to 1 kHz	Using Multifunction Calibrator By Direct Method	2 V to 200 V	0.0053 % to 0.0065 %
82	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 40 Hz to 1 kHz	Using Multifunction Calibrator By Direct Method	20 mV to 200 mV	0.034 % to 0.015 %
83	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 40 Hz to 1 kHz	Using Multifunction Calibrator By Direct Method	200 mV to 2 V	0.015 % to 0.0053 %
84	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 40 Hz to 1 kHz	Using Multifunction Calibrator By Direct Method	200 V to 1000 V	0.0065 % to 0.0087 %
85	ELECTRO- TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 kHz to 100 kHz	Using Multiproduct Calibrator By Direct Method	30 mV to 100 V	0.14 % to 0.29 %



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86	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor By Direct Method	100 μ F	0.4 %
87	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using High Frequency Standard Capacitor By Direct Method	1 μ F	0.06 %
88	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using High Frequency Standard Capacitor By Direct Method	1 pF	0.12 %
89	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor By Direct Method	10 μ F	0.2 %
90	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using High Frequency Standard Capacitor By Direct Method	10 nF	0.060 %
91	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using High Frequency Standard Capacitor By Direct Method	10 pF	0.12 %



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92	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using High Frequency Standard Capacitor By Direct Method	100 nF	0.060 %
93	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using High Frequency Standard Capacitor By Direct Method	100 pF	0.12 %
94	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor By Direct Method	1000 µF	0.8 %
95	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using High Frequency Standard Capacitor By Direct Method	1000 pF	0.18 %
96	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Inductance Standard By Direct Method	1 H	0.191 %
97	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Inductance Standard By Direct Method	1 mH	0.071 %



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98	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Inductance Standard By Direct Method	10 H	0.052 %
99	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Inductance Standard By Direct Method	10 mH	0.066 %
100	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Inductance Standard By Direct Method	100 mH	0.060 %
101	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 240 V, 1 A	Using Multiproduct Calibrator By Direct Method	0.2 PF to 1 PF	0.025 %
102	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Reference Multimeter By Direct Method	1 A to 10 A	0.025 % to 0.054 %
103	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Reference Multimeter By Direct Method	10 µA to 100 µA	0.0029 % to 0.0023 %



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104	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Reference Multimeter By Direct Method	10 A to 20 A	0.054 %
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Reference Multimeter By Direct Method	100 µA to 100 mA	0.0023 % to 0.0054 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ Digit Reference Multimeter By Direct Method	100 mA to 1 A	0.0054 % to 0.025 %
107	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 8½ Digit Reference Multimeter By Direct Method	1 Gohm to 10 Gohm	0.21 % to 0.22 %
108	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 8½ Digit Reference Multimeter By Direct Method	1 Mohm to 10 Mohm	0.0016 % to 0.0028 %
109	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 8½ Digit Reference Multimeter By Direct Method	10 Mohm to 100 Mohm	0.0028 % to 0.020 %



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110	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 8½ Digit Reference Multimeter By Direct Method	100 Mohm to 1 Gohm	0.020 % to 0.21 %
111	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using Multifunction Calibrator and 8½ Digit Reference Multimeter By V/I Method	1 mohm to 1 ohm	0.0042 % to 0.0044 %
112	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ Digit Reference Multimeter By Direct Method	1 ohm to 100 ohm	0.0018 % to 0.0011 %
113	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC resistance (4 wire)	Using 8½ Digit Reference Multimeter By Direct Method	100 mohm to 1 ohm	0.0063 % to 0.0018 %
114	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ Digit Reference Multimeter By Direct Method	100 mohm to 10 ohm	0.0063 % to 0.0018 %
115	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 8½ Digit Reference Multimeter By Direct Method	100 ohm to 1 Mohm	0.0011 % to 0.0016 %



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116	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Reference Multimeter By Direct Method	1 mV to 100 mV	0.053 % to 0.00071 %
117	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Reference Multimeter By Direct Method	1 V to 1000 V	0.00058 % to 0.00075 %
118	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Reference Multimeter By Direct Method	10 µV to 100 µV	1.17 % to 0.12 %
119	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Reference Multimeter By Direct Method	100 µV to 1 mV	0.12 % to 0.053 %
120	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ Digit Reference Multimeter By Direct Method	100 mV to 1 V	0.00076 % to 0.00058 %
121	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator By Direct Method	10 µA to 200 µA	0.01 % to 0.0048 %



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122	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator By Direct Method	10 A to 20 A	0.053 % to 0.11 %
123	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator By Direct Method	2 A to 10 A	0.010 % to 0.053 %
124	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator By Direct Method	2 mA to 200 mA	0.0052 %
125	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator with Current Coil By Direct Method	20 A to 1000 A	0.11 % to 4.8 %
126	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator By Direct Method	200 µA to 2 mA	0.0048 % to 0.0042 %
127	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator By Direct Method	200 mA to 2 A	0.0052 % to 0.010 %



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128	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Standard Resistor By Direct Method	1 Gohm	0.058 %
129	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multifunction Calibrator By Direct Method	1 Mohm	0.0016 %
130	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multifunction Electrical Tester Calibrator By Direct Method	1 Mohm to 400 Mohm	0.0082 % to 1.88 %
131	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multifunction Calibrator By Direct Method	10 Mohm	0.0047 %
132	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multifunction Calibrator By Direct Method	100 Mohm	0.012 %
133	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct Method	100 Mohm to 400 Mohm	0.065 % to 1.88 %



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134	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multiproduct Calibrator By Direct method	400 Mohm to 1 Gohm	1.88 %
135	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) upto 5 kV	Using High Value Decade Meg ohm Box By Direct Method	1 Mohm to 1 Tohm	0.035 % to 5 %
136	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) upto 5 kV	Using High Resistance Decade Box By Direct Method	10 Gohm to 100 Gohm	1.16 %
137	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) upto 5 kV	Using High Resistance Decade Box By Direct Method	100 Gohm to 1 Tohm	1.16 % to 5 %
138	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) upto 5 kV	Using High Resistance Decade Box By Direct Method	400 Mohm to 10 Gohm	0.38 % to 1.16 %
139	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Precision DC Current Shunt (HRRS-9211A- Multi value Resistors) By Direct Method	0.333 mohm	0.42 %



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140	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multifunction Calibrator By Direct Method	1 kohm	0.00071 %
141	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multifunction Calibrator By Direct Method	1 kohm to 190 kohm	0.00078 % to 0.001 %
142	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Precision DC Current Shunt (HRRS-9211A-Multivalve Resistors) By Direct Method	1 mohm	0.11 %
143	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Precision DC Current Shunt (HRRS-9211A- Multi value Resistors) By Direct Method	1 ohm	0.013 %
144	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multifunction Calibrator By Direct Method	10 kohm	0.00078 %
145	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Precision DC Current Shunt (HRRS-9211A-Multivalve Resistors) By Direct Method	10 mohm	0.071 %



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146	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Reference Resistor By Direct Method	10 ohm	0.0014 %
147	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multifunction Calibrator By Direct Method	100 kohm	0.0010 %
148	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Precision DC Current Shunt (HRRS-9211A- Multi value Resistors) By Direct Method	100 mohm	0.023 %
149	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Reference Resistor By Direct Method	100 ohm	0.0013 %
150	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multifunction Calibrator By Direct Method	100 ohm to 100 kohm	0.001 % to 0.0036 %
151	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multi Function Calibrator By Direct Method	190 kohm to 1 Mohm	0.001 % to 0.0082 %



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152	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Multiproduct Calibrator By Direct Method	2 ohm to 10 ohm	0.069 % to 0.0073 %
153	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC resistance (4 wire), 100 Mohm (2 wire)	Using Multifunction Calibrator By Direct Method	10 ohm to 100 Mohm	0.0073 % to 0.065 %
154	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (upto 5 kV)	Using High Resistance Decade Box (2 Wire) By Direct Method	10 Gohm to 20 Gohm	1.16 %
155	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator By Direct Method	(-) 1 mV to (-) 100 μ V	0.066 % to 0.58 %
156	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator By Direct Method	(-) 10 mV to (-) 1 mV	0.0066 % to 0.066 %
157	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator By Direct Method	(-) 100 μ V to (-) 10 μ V	0.58 % to 5.25 %



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158	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator By Direct Method	(-) 100 mV to (-) 10 mV	0.0015 % to 0.0066 %
159	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator By Direct Method	1 mV to 10 mV	0.060 % to 0.0066 %
160	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator By Direct Method	1 V to 1000 V	0.00067 % to 0.00081 %
161	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator By Direct Method	10 μ V to 100 μ V	4.82 % to 0.6 %
162	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator By Direct Method	10 mV to 100 mV	0.0066 % to 0.0015 %
163	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator By Direct Method	100 μ V to 1 mV	0.6 % to 0.060 %



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164	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multifunction Calibrator By Direct Method	100 mV to 1 V	0.0015 % to 0.00067 %
165	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Voltage (1 kV to 10 kV- Pulse Width)	Using Oscilloscope With High Voltage Probe By Direct Method	40 µs to 60 µs	6 %
166	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Voltage (1 kV to 10 kV- Rise Time)	Using Oscilloscope With High Voltage Probe By Direct Method	0.84 µs to 1.56 µs	6.1 %
167	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Impulse Voltage (1 kV to 10 kV- Voltage)	Using Oscilloscope With High Voltage Probe By Direct Method	0.9 kV to 10.1 kV	6 %
168	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude (AC Voltage), 10 kHz, 1 Mohm	Using Oscilloscope Calibrator By Direct Method	5 mV to 5 V	0.1 %
169	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude (AC Voltage) 1 kHz, 1 Mohm	Using Oscilloscope Calibrator By Direct Method	5 mV to 200 V	0.08 % to 0.021 %



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170	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Bandwidth) flatness relative to 50 kHz	Using Oscilloscope Calibrator By Direct Method	2 GHz to 4.2 GHz	3 % to 4 %
171	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Bandwidth) flatness relative to 50 kHz	Using Oscilloscope Calibrator By Direct Method	50 kHz to 500 MHz	2 %
172	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Bandwidth) flatness relative to 50 kHz	Using Oscilloscope Calibrator By Direct Method	500 MHz to 2 GHz	2 % to 3 %
173	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (DC Voltage) 1 Mohm	Using Oscilloscope Calibrator By Direct Method	5 mV to 200 V	0.26 % to 0.018 %
174	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (DC Voltage) 50 ohm	Using Oscilloscope Calibrator By Direct Method	5 mV to 5 V	0.29 % to 0.033 %
175	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (Time Co-efficient)	Using Oscilloscope Calibrator By Direct Method	9 ns to 55 s	0.15 ppm



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176	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude (AC Voltage) 10 kHz, 50 ohm	Using Oscilloscope Calibrator By Direct Method	5 mV to 5 V	0.1 %
177	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude (AC Voltage), 1 kHz, 50 ohm	Using Oscilloscope Calibrator By Direct Method	5 mV to 5 V	0.096 % to 0.13 %
178	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Standard Thermometer Readout By Direct Method	500 °C to 1800 °C	0.76 °C
179	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Standard Thermometer Readout By Direct Method	(-) 200 °C to 1000 °C	0.25 °C
180	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Standard Thermometer Readout By Direct Method	(-) 200 °C to 1200 °C	0.12 °C
181	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Standard Thermometer Readout By Direct Method	(-) 200 °C to 1350 °C	0.25 °C



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182	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Standard Thermometer Readout By Direct Method	(-) 200 °C to 1250 °C	0.25 °C
183	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Standard Thermometer Readout By Direct Method	50 °C to 1750 °C	0.68 °C
184	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD-PT 100 / PT 1000	Standard Thermometer Readout By Direct Method	(-) 199 °C to 800 °C	0.24 °C
185	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multiproduct Calibrator By Direct Method	20 °C to 1750 °C	0.77 °C
186	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Standard Thermometer Readout By Direct Method	20 °C to 1750 °C	0.77 °C
187	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Standard Thermometer Readout By Direct Method	(-) 200 °C to 400 °C	0.17 °C



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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)($\pm$)
188	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Multiproduct Calibrator By Direct Method	600 °C to 1800 °C	0.52 °C
189	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Multiproduct Calibrator By Direct Method	(-) 200 °C to 1000 °C	0.58 °C
190	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Multiproduct Calibrator By Direct Method	(-) 200 °C to 1000 °C	0.31 °C
191	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Multifunction Calibrator By Direct Method	(-) 200 °C to 1350 °C	0.46 °C
192	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Multifunction Calibrator By Direct Method	(-) 200 °C to 1300 °C	0.46 °C
193	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multifunction Calibrator By Direct Method	50 °C to 1750 °C	0.68 °C



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194	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD-PT 1000 and PT 100	Using Multiproduct Calibrator By Direct Method	(-) 199 °C to 800 °C	0.27 °C
195	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Multiproduct Calibrator By Direct Method	20 °C to 1750 °C	0.61 °C
196	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Multiproduct Calibrator By Direct Method	(-) 200 °C to 400 °C	0.73 °C
197	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Universal Counter By Direct Method	1 kHz to 1 MHz	0.000025 % to 0.000023 %
198	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Universal Counter By Direct Method	1 MHz to 10 MHz	0.000023 %
199	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Universal Counter By Direct Method	10 Hz to 1 kHz	0.000065 % to 0.000025 %



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200	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Frequency Counter By Direct Method	10 MHz to 2.4 GHz	0.000023 % to 0.000000042 %
201	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time Interval	Using Universal Counter By Direct Method	1 s to 5400 s	0.0012 %
202	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Function Generator By Direct Method	1 Hz to 100 kHz	0.00093 % to 0.00029 %
203	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Single Channel Arbitrary / Function Generator By Direct Method	10 Hz to 3 GHz	0.00012 %
204	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Single Channel Arbitrary / Function Generator By Direct Method	2 MHz to 10 MHz	0.003 %
205	THERMAL-TEMPERATURE	Liquid in Glass Thermometer	Using SPRT Pt-100 with readout and liquid bath as a source By Comparison Method	(-) 40 °C to 40 °C	0.096 °C



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206	THERMAL-TEMPERATURE	Temperature Sensor (RTD or Thermocouple) with Indicator and Controller, Temperature gauge	Using SPRT Pt-100 with readout and liquid bath as a source By Comparison Method	(-) 40 °C to 40 °C	0.08 °C
207	THERMAL-TEMPERATURE	Temperature Sensor (RTD or Thermocouple) with Indicator and Controller, Temperature gauge	Using SPRT Pt-100 with readout and dry block calibrator as a source By Comparison Method	200 °C to 660 °C	0.76 °C
208	THERMAL-TEMPERATURE	Temperature Sensor (RTD or Thermocouple) with Indicator and Controller, Temperature gauge	Using SPRT Pt-100 with readout and liquid bath as a source By Comparison Method	40 °C to 200 °C	0.41 °C
209	THERMAL-TEMPERATURE	Temperature Sensors (RTD or Thermocouple) with Indicator and Controller, Temperature gauge	Using SPRT Pt-100 with readout and zero calibrator dry well as a source By Comparison Method	0.01 °C	0.075 °C
210	THERMAL-TEMPERATURE	Thermocouple with Indicator / Controller	Using S-Type Thermocouple with readout and dry block calibrator as a source By Comparison Method	600 °C to 1000 °C	2.35 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Digital Multimeter By Direct Method	1 A to 3 A	0.21 % to 0.24 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Digital Multimeter By Direct Method	100 µA to 1 A	4.2 % to 0.21 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Digital Multimeter with Current Shunt By V/I Method	3 A to 20 A	0.24 % to 0.67 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 30 kHz	Using 6½ Digit Digital Multimeter By Direct Method	10 mV to 100 V	0.70 % to 0.2 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using High Voltage Probe With Digital Multimeter By Direct Method	1 kV to 10 kV	6.5 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Digital Multimeter By Direct Method	1 mV to 750 V	0.66 % to 0.10 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 100 kHz	Using 6 ½ Digit DMM By Direct Method	1 mV to 750 V	2.5 % to 0.2 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Capacitance @ 1 kHz	Digital Multimeter By Direct Method	1 nF to 100 µF	1.16 % to 0.7 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multiproduct Calibrator By Direct Method	1 A to 20 A	0.70 % to 3.5 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz to 5 kHz	Using Multiproduct Calibrator By Direct Method	10 mA to 1 A	0.33 % to 0.70 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multiproduct Calibrator with Current Coil By Direct Method	20 A to 1000 A	2.73 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator By Direct Method	1 A to 20 A	0.20 % to 0.30 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 1 kHz	Using Multiproduct Calibrator By Direct Method	100 µA to 1 A	0.60 % to 0.20 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 10 kHz	Using Multiproduct Calibrator By Direct Method	30 mV to 300 V	0.59 % to 0.11 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz to 50 kHz	Using Multiproduct Calibrator By Direct method	100 mV to 100 V	0.59 % to 0.23 %



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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multiproduct Calibrator By Direct Method	100 V to 1000 V	0.078 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 10 kHz	Using Multiproduct Calibrator By Direct Method	30 mV to 100 V	0.42 % to 0.078 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Standard Capacitor By Direct Method	1 nF to 100 µF	0.15 % to 0.50 %
19	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter By Direct Method	>1 A to 3 A	0.21 % to 0.24 %
20	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Reference Multimeter By Direct Method	100 µA to 10 A	0.06 % to 0.35 %
21	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Digital Multimeter with Current Shunt By V/I Method	3 A to 20 A	0.24 % to 0.37 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire / 2 wire)	Using 6½ Digit Digital Multimeter By Direct Method	10 Mohm to 1 Gohm	0.026 % to 3 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (4 wire)	Using 6½ Digit Digital Multimeter By Direct Method	1 ohm to 10 Mohm	0.41 % to 0.026 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using High Voltage Probe with DMM By Direct Method	>1 kV to 10 kV	2.5 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter By Direct Method	0.1 mV to 100 mV	3.5 % to 0.009 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Digital Multimeter By Direct Method	10 mV to 1000 V	0.019 % to 0.0064 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Digital Multimeter By Direct Method	100 mV to 1000 V	0.009 % to 0.0054 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator By Direct Method	1 A to 10 A	0.025 % to 0.092 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator By Direct Method	10 µA to 1 A	0.3 % to 0.025 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator By Direct Method	10 A to 20 A	0.092 % to 0.11 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct Calibrator With Current Coil By Direct Method	20 A to 1000 A	1.2 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire) above 100 Mohm (2 wire)	Using Multiproduct Calibrator, By Direct Method	10 ohm to 400 Mohm	0.7 % to 0.38 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct Calibrator By Direct Method	1 mV to 1000 V	0.06 % to 0.0093 %



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34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B Type Thermocouple	Standard Thermometer Readout By Direct Method	500 °C to 1800 °C	0.8 °C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Standard Thermometer Readout By Direct Method	(-) 200 °C to 1000 °C	0.25 °C
36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Standard Thermometer Readout By Direct Method	(-) 200 °C to 1200 °C	0.25 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Standard Thermometer Readout By Direct Method	(-) 200 °C to 1350 °C	0.25 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Standard Thermometer Readout By Direct Method	(-) 200 °C to 1250 °C	0.25 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Standard Thermometer Readout By Direct Method	50 °C to 1750 °C	0.68 °C



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40	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	RTD-PT 100 / PT 1000	Standard Thermometer Readout By Direct Method	(-) 199 °C to 800 °C	0.24 °C
41	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Standard Thermometer Readout By Direct Method	20 °C to 1750 °C	0.77 °C
42	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Standard Thermometer Readout By Direct Method	(-) 200 °C to 400 °C	0.17 °C
43	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Multiproduct Calibrator By Direct Method	600 °C to 1800 °C	0.52 °C
44	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Multiproduct Calibrator By Direct Method	(-) 200 °C to 1000 °C	0.58 °C
45	ELECTRO- TECHNICAL- TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Multiproduct Calibrator By Direct Method	(-) 200 °C to 1000 °C	0.31 °C



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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)($\pm$)
46	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K Type Thermocouple	Using Multifunction Calibrator By Direct Method	(-) 200 °C to 1350 °C	0.46 °C
47	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N Type Thermocouple	Using Multifunction Calibrator By Direct Method	(-) 200 °C to 1300 °C	0.46 °C
48	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multifunction Calibrator By Direct Method	50 °C to 1750 °C	0.68 °C
49	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD-PT 1000 and PT 100	Using Multiproduct Calibrator By Direct Method	(-) 199 °C to 800 °C	0.27 °C
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Multiproduct Calibrator By Direct Method	20 °C to 1750 °C	0.61 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T Type Thermocouple	Using Multiproduct Calibrator by Direct Method	(-) 200 °C to 400 °C	0.73 °C



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Accreditation Standard ISO/IEC 17025:2017

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52	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Universal Counter By Direct Method	10 Hz to 1 GHz	0.000027 % to 0.000023 %
53	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter By Direct Method	10 Hz to 300 kHz	0.03 % to 0.008 %
54	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Single Channel Arbitrary / Function Generator By Direct Method	2 MHz to 10 MHz	0.003 %
55	THERMAL-TEMPERATURE	Temperature Chamber, Liquid bath, Incubator, Freezer, Refrigerator, Oven, Dry block calibrator - Multiple position	Using standard RTD (minimum 9 sensors) with Data Logger By Comparison Method	(-) 40 °C to 200 °C	1.15 °C



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56	THERMAL-TEMPERATURE	Temperature Indicator with sensor of Temperature Chamber / Liquid bath / Incubator/ Freezer / Refrigerator / Oven / Dry block calibrator - single position calibration	Using standard RTD with Indicator By Comparison Method	(-) 40 °C to 200 °C	0.49 °C

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