National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	SUDUTT ELECTRICAL TESTING LABORATORY (OPC) PRIVATE LIMITED, GF-8, TITHI HEIGHTS, GOTRI ROAD, VADODARA, GUJARAT, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (50 Hz to 500 Hz)	Using 6½ Digit Multi-Meter by Direct method	1 A to 10 A	0.17 % to 0.54 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (50 Hz to 500 Hz)	Using 6½ Digit Multi-Meter by Direct method	10 µA to 10 mA	0.22 % to 0.17 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (50 Hz to 500 Hz)	Using 6½ Digit Multi-Meter by Direct method	10 mA to 1 A	0.17 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Multi-Meter by Direct method	1 mV to 100 mV	0.5 % to 0.11 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Multi-Meter by Direct method	100 mV to 100 V	0.11 % to 0.1 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Multi-Meter by Direct method	100 V to 750 V	0.1 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Multi-Function Calibrator by direct Method	10 µA to 10 mA	1.81 % to 0.082 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Multi-Function Calibrator by direct Method	10 mA to 200 mA	0.082 % to 0.075 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Single Phase Power Calibrator & Tester By Direct Method	0.02 A to 120 A	0.29 % to 0.031 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz / 60 Hz	Using Multi-Function Calibrator by direct Method	1 A to 20 A	0.075 % to 0.32 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz / 60 Hz	Using Multi-Function Calibrator by direct Method	10 µA to 10 mA	1.81 % to 0.082 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz / 60 Hz	Using Multi-Function Calibrator by direct Method	10 mA to 1 A	0.082 % to 0.075 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz / 60 Hz	Using Multi-Function Calibrator with Clamp Meter Adaptor by direct Method	20 A to 1000 A	0.78 % to 1.14 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz	Using Multi-Function Calibrator by direct Method	1 mV to 100 mV	3.7 % to 0.16 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz	Using Multi-Function Calibrator by direct Method	100 mV to 20 V	0.16 % to 0.12 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 100 kHz	Using Multi-Function Calibrator by direct Method	1 mV to 100 mV	3.75 % to 0.14 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 100 kHz	Using Multi-Function Calibrator by direct Method	100 mV to 20 V	0.14 % to 0.18 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Single Phase Power Calibrator & Tester By Direct Method	3 V to 500 V	0.032 % to 0.026 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi-Function Calibrator by direct Method	1 mV to 100 mV	3.71 % to 0.13 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi-Function Calibrator by direct Method	10 V to 1000 V	0.086 % to 0.062 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi-Function Calibrator by direct Method	100 mV to 10 V	0.13 % to 0.086 %

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22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi-Function Calibrator by direct Method	1 nF to 10 nF	1.33 % to 0.6 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multi-Function Calibrator by direct Method	10 nF to 100 uF	0.6 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Harmonics @ 100 V, 10 A (50 Hz)	Using Single Phase Power Calibrator & Tester By Direct Method	1 Order to 40 Order	0.62 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 240 V / 10 A, 50 Hz	Using Single Phase Power Calibrator & Tester By Direct Method	0.01 Lag/Lead to 1 UPF	0.0012 pF to 0.00064 pF
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase Active Power @ (30 V to 550 V, 0.5 A to 20 A, 0.01 Lead/Lag to UPF)	Using Single Phase Power Calibrator & Tester By Direct Method	0.15 W to 11 kW	1.156 % to 0.03 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase Active Power @ (50 V to 550 V, 20 A to 120 A & 0.01 PF Lag/Lead to UPF)	Using Single Phase Power Calibrator & Tester By Direct Method	10 W to 66 kW	2.184 % to 0.033 %

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28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase Apparent Power @ (30 V to 550 V, 0.01 A to 120 A)	Using Single Phase Power Calibrator & Tester By Direct Method	0.3 VA to 66 kVA	0.20 % to 0.034 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase Reactive Power @ (30 V to 500 V, 0.05 A to 20 A, 0.5 PF Lead / Lag to UPF)	Using Single Phase Power Calibrator & Tester By Direct Method	0.75 VAr to 10 kVAr	0.084 % to 0.066 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multi-Meter by Direct method	1 µA to 1 mA	0.11 % to 0.061 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multi-Meter by Direct method	1 mA to 100 mA	0.061 % to 0.035 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multi-Meter by Direct method	100 mA to 10 A	0.035 % to 0.29 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 6½ Digit Multi-Meter by Direct method	0.1 ohm to 100 ohm	0.082 % to 0.012 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 6½ Digit Multi-Meter by Direct method	10 Mohm to 1 Gohm	0.049 % to 0.25 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 6½ Digit Multi-Meter by Direct method	100 kohm to 10 Mohm	0.012 % to 0.049 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digit Multi-Meter by Direct method	100 ohm to 100 kohm	0.012 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multi-Meter by Direct method	1 mV to 100 mV	0.42 % to 0.0078 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multi-Meter by Direct method	10 V to 1000 V	0.0048 % to 0.0059 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multi-Meter by Direct method	100 mV to 10 V	0.0078 % to 0.0048 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digital Multi-Meter and Multifunction Calibrator By V/I method	0.01 ohm to 1 ohm	0.071 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Function Calibrator by direct Method	1 µA to 10 mA	2.9 % to 0.017 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Function Calibrator by direct Method	1 A to 20 A	0.058 % to 0.3 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Function Calibrator by direct Method	10 mA to 1 A	0.017 % to 0.058 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator with Clamp Meter Adaptor by direct Method	20 A to 1000 A	0.861 % to 1.14 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	100 Mohm	0.116 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multi-Function Calibrator by direct Method	1 ohm to 100 ohm	1.7 % to 0.029 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multi-Function Calibrator by direct Method	10 Mohm to 1 Gohm	0.025 % to 1.3 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multi-Function Calibrator by direct Method	100 ohm to 10 Mohm	0.029 % to 0.025 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	0.1 Mohm	0.046 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	1 Gohm	0.24 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	1 Mohm	0.063 %

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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	1 Tohm	3.5 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	10 Gohm	0.63 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	10 Mohm	0.053 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	100 Gohm	1.27 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistor by Direct Method	1 kohm	0.038 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistor by Direct Method	1 mOhm	0.084 %

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58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistor By Direct Method	1 mohm	0.183 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistor by Direct Method	1 ohm	0.031 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistor By Direct Method	10 mohm	0.061 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor By Direct Method	10 ohm	0.03 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistor by Direct Method	100 µohm	0.14 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor By Direct Method	100 µohm	0.144 %

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64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistor By Direct Method	100 mOhm	0.038 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Dc Resistance (4 Wire)	Using Standard Resistor By Direct Method	100 ohm	0.03 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Function Calibrator by direct Method	1 mV to 100 mV	0.47 % to 0.0093 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Function Calibrator by direct Method	10 V to 1000 V	0.008 % to 0.0059 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Function Calibrator by direct Method	100 mV to 10 V	0.0093 % to 0.008 %
69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Turns Ratio (Transformer Turn Ratio Meter)	Using Multi Function Calibrator & 6½ Digit Multimeter by Comparison Method	1 Ratio to 10000 Ratio	0.22 % to 0.27 %

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using 6½ Digit Multi-Meter by Direct method	(-) 200 °C to 1200 °C	0.27 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using 6½ Digit Multi-Meter by Direct method	(-) 200 °C to 1300 °C	0.43 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100)	Using 6½ Digit Multi-Meter by Direct method	(-) 180 °C to 800 °C	0.92 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Multi-Function Calibrator by direct Method	600 °C to 1800 °C	1.73 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Multi-Function Calibrator by direct Method	(-) 200 °C to 1000 °C	0.31 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Multi-Function Calibrator by direct Method	(-) 200 °C to 1200 °C	0.25 °C

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76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K type Thermocouple	Using Multi-Function Calibrator by direct Method	(-) 200 °C to 1300 °C	0.36 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N -Type Thermocouple	Using Multi-Function Calibrator by direct Method	(-) 200 °C to 1300 °C	0.51 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multi-Function Calibrator by direct Method	3 °C to 1750 °C	1.16 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using Multi-Function Calibrator by direct Method	(-) 180 °C to 850 °C	0.22
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Multi-Function Calibrator by direct Method	3 °C to 1750 °C	1.05 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-type Thermocouple	Using Multi-Function Calibrator by direct Method	(-) 200 °C to 400 °C	0.26 °C

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82	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multi-Meter by Direct method	1 kHz to 300 kHz	0.059 % to 0.01 %
83	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multi-Meter by Direct method	3 Hz to 1 kHz	0.22 % to 0.059 %
84	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator / With scope option by direct method	10 Hz to 1 MHz	0.06 % to 0.007 %

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (50 Hz to 500 Hz)	Using 6½ Digit Multi-Meter by Direct method	1 A to 10 A	0.17 % to 0.54 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (50 Hz to 500 Hz)	Using 6½ Digit Multi-Meter by Direct method	10 µA to 10 mA	0.22 % to 0.17 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ (50 Hz to 500 Hz)	Using 6½ Digit Multi-Meter by Direct method	10 mA to 1 A	0.17 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Multi-Meter by Direct method	1 mV to 100 mV	0.5 % to 0.11 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Multi-Meter by Direct method	100 mV to 100 V	0.11 % to 0.1 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz to 1 kHz	Using 6½ Digit Multi-Meter by Direct method	100 V to 750 V	0.1 % to 0.12 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Multi-Function Calibrator by direct Method	10 μA to 10 mA	1.81 % to 0.082 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 1 kHz	Using Multi-Function Calibrator by direct Method	10 mA to 200 mA	0.082 % to 0.075 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Single Phase Power Calibrator & Tester By Direct Method	0.02 A to 120 A	0.29 % to 0.031 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz / 60 Hz	Using Multi-Function Calibrator by direct Method	1 A to 20 A	0.075 % to 0.32 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz / 60 Hz	Using Multi-Function Calibrator by direct Method	10 µA to 10 mA	1.81 % to 0.082 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz / 60 Hz	Using Multi-Function Calibrator by direct Method	10 mA to 1 A	0.082 % to 0.075 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz / 60 Hz	Using Multi-Function Calibrator with Clamp Meter Adaptor by direct Method	20 A to 1000 A	0.78 % to 1.14 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz	Using Multi-Function Calibrator by direct Method	1 mV to 100 mV	3.7 % to 0.16 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 kHz	Using Multi-Function Calibrator by direct Method	100 mV to 20 V	0.16 % to 0.12 %

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16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 100 kHz	Using Multi-Function Calibrator by direct Method	1 mV to 100 mV	3.75 % to 0.14 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 100 kHz	Using Multi-Function Calibrator by direct Method	100 mV to 20 V	0.14 % to 0.18 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Single Phase Power Calibrator & Tester By Direct Method	3 V to 500 V	0.032 % to 0.026 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi-Function Calibrator by direct Method	1 mV to 100 mV	3.71 % to 0.13 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi-Function Calibrator by direct Method	10 V to 1000 V	0.086 % to 0.062 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 1 kHz	Using Multi-Function Calibrator by direct Method	100 mV to 10 V	0.13 % to 0.086 %

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22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi-Function Calibrator by direct Method	1 nF to 10 nF	1.33 % to 0.6 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 100 Hz	Using Multi-Function Calibrator by direct Method	10 nF to 100 uF	0.6 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Harmonics @ 100 V, 10 A (50 Hz)	Using Single Phase Power Calibrator & Tester By Direct Method	1 Order to 40 Order	0.62 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 240 V / 10 A, 50 Hz	Using Single Phase Power Calibrator & Tester By Direct Method	0.01 Lag/Lead to 1 UPF	0.0012 pF to 0.00064 pF
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase Active Power @ (30 V to 550 V, 0.5 A to 20 A, 0.01 Lead/Lag to UPF)	Using Single Phase Power Calibrator & Tester By Direct Method	0.15 W to 11 kW	1.156 % to 0.03 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase Active Power @ (50 V to 550 V, 20 A to 120 A & 0.01 PF Lag/Lead to UPF)	Using Single Phase Power Calibrator & Tester By Direct Method	10 W to 66 kW	2.184 % to 0.033 %

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28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase Apparent Power @ (30 V to 550 V, 0.01 A to 120 A)	Using Single Phase Power Calibrator & Tester By Direct Method	0.3 VA to 66 kVA	0.20 % to 0.034 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Single Phase Reactive Power @ (30 V to 500 V, 0.05 A to 20 A, 0.5 PF Lead / Lag to UPF)	Using Single Phase Power Calibrator & Tester By Direct Method	0.75 VAr to 10 kVAr	0.084 % to 0.066 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multi-Meter by Direct method	1 µA to 1 mA	0.11 % to 0.061 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multi-Meter by Direct method	1 mA to 100 mA	0.061 % to 0.035 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multi-Meter by Direct method	100 mA to 10 A	0.035 % to 0.29 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 6½ Digit Multi-Meter by Direct method	0.1 ohm to 100 ohm	0.082 % to 0.012 %

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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 6½ Digit Multi-Meter by Direct method	10 Mohm to 1 Gohm	0.049 % to 0.25 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 wire)	Using 6½ Digit Multi-Meter by Direct method	100 kohm to 10 Mohm	0.012 % to 0.049 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2 Wire)	Using 6½ Digit Multi-Meter by Direct method	100 ohm to 100 kohm	0.012 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multi-Meter by Direct method	1 mV to 100 mV	0.42 % to 0.0078 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multi-Meter by Direct method	10 V to 1000 V	0.0048 % to 0.0059 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multi-Meter by Direct method	100 mV to 10 V	0.0078 % to 0.0048 %

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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 6½ Digital Multi-Meter and Multifunction Calibrator By V/I method	0.01 ohm to 1 ohm	0.071 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Function Calibrator by direct Method	1 µA to 10 mA	2.9 % to 0.017 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Function Calibrator by direct Method	1 A to 20 A	0.058 % to 0.3 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi-Function Calibrator by direct Method	10 mA to 1 A	0.017 % to 0.058 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multifunction Calibrator with Clamp Meter Adaptor by direct Method	20 A to 1000 A	0.861 % to 1.14 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	100 Mohm	0.116 %

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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multi-Function Calibrator by direct Method	1 ohm to 100 ohm	1.7 % to 0.029 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multi-Function Calibrator by direct Method	10 Mohm to 1 Gohm	0.025 % to 1.3 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire)	Using Multi-Function Calibrator by direct Method	100 ohm to 10 Mohm	0.029 % to 0.025 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	0.1 Mohm	0.046 %
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	1 Gohm	0.24 %
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	1 Mohm	0.063 %

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52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	1 Tohm	3.5 %
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	10 Gohm	0.63 %
54	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	10 Mohm	0.053 %
55	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 wire) @ 1 kV	Using Standard Decade Resistance Box By Direct Method	100 Gohm	1.27 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistor by Direct Method	1 kohm	0.038 %
57	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistor by Direct Method	1 mOhm	0.084 %

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58	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistor By Direct Method	1 mohm	0.183 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistor by Direct Method	1 ohm	0.031 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistor By Direct Method	10 mohm	0.061 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor By Direct Method	10 ohm	0.03 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistor by Direct Method	100 µohm	0.14 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 wire)	Using Standard Resistor By Direct Method	100 µohm	0.144 %

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64	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Standard Resistor By Direct Method	100 mOhm	0.038 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Dc Resistance (4 Wire)	Using Standard Resistor By Direct Method	100 ohm	0.03 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Function Calibrator by direct Method	1 mV to 100 mV	0.47 % to 0.0093 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Function Calibrator by direct Method	10 V to 1000 V	0.008 % to 0.0059 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi-Function Calibrator by direct Method	100 mV to 10 V	0.0093 % to 0.008 %
69	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Turns Ratio (Transformer Turn Ratio Meter)	Using Multi Function Calibrator & 6½ Digit Multimeter by Comparison Method	1 Ratio to 10000 Ratio	0.22 % to 0.27 %

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using 6½ Digit Multi-Meter by Direct method	(-) 200 °C to 1200 °C	0.27 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using 6½ Digit Multi-Meter by Direct method	(-) 200 °C to 1300 °C	0.43 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT-100)	Using 6½ Digit Multi-Meter by Direct method	(-) 180 °C to 800 °C	0.92 °C
73	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B Type Thermocouple	Using Multi-Function Calibrator by direct Method	600 °C to 1800 °C	1.73 °C
74	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E Type Thermocouple	Using Multi-Function Calibrator by direct Method	(-) 200 °C to 1000 °C	0.31 °C
75	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J Type Thermocouple	Using Multi-Function Calibrator by direct Method	(-) 200 °C to 1200 °C	0.25 °C

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76	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K type Thermocouple	Using Multi-Function Calibrator by direct Method	(-) 200 °C to 1300 °C	0.36 °C
77	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N -Type Thermocouple	Using Multi-Function Calibrator by direct Method	(-) 200 °C to 1300 °C	0.51 °C
78	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R Type Thermocouple	Using Multi-Function Calibrator by direct Method	3 °C to 1750 °C	1.16 °C
79	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT-100)	Using Multi-Function Calibrator by direct Method	(-) 180 °C to 850 °C	0.22
80	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S Type Thermocouple	Using Multi-Function Calibrator by direct Method	3 °C to 1750 °C	1.05 °C
81	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T-type Thermocouple	Using Multi-Function Calibrator by direct Method	(-) 200 °C to 400 °C	0.26 °C

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82	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multi-Meter by Direct method	1 kHz to 300 kHz	0.059 % to 0.01 %
83	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multi-Meter by Direct method	3 Hz to 1 kHz	0.22 % to 0.059 %
84	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator / With scope option by direct method	10 Hz to 1 MHz	0.06 % to 0.007 %

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