National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

83 & 84 AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA

in the field of

CALIBRATION

Certificate Number: CC-4254

Issue Date: 31/01/2025 **Valid Until:** 30/01/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE

Signed for and on behalf of NABL

Anita Rani
Director

N. Venkateswaran
Chief Executive Officer

SCOPE OF ACCREDITATION

Laboratory Name :	SCIENTIFIC AND INDUSTRIAL TESTING AND RESEARCH CENTRE, 83 & 84 AVARAMPALAYAM ROAD, K R PURAM POST, COIMBATORE, TAMIL NADU, INDIA
Accreditation Standard	ISO/IEC 17025:2017
Certificate Number	CC-4254
Validity	31/01/2025 to 30/01/2029

Last Amended on -

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	Using Three Phase Test System by Direct method	0.01 A to 1 A	0.59 % to 0.13 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Three Phase Test System by Direct method	1 A to 10 A	0.13 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Three Phase Test System by Direct method	10 A to 120 A	0.13 % to 0.24 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mA to 100 mA	4.8 % to 0.45 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.45 % to 0.24 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using HV Probe with 4½ Digital Multimeter by Direct Method	0.75 kV to 6 kV	1.19 % to 1.97 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.1 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mV to 10 V	0.72 % to 0.1 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using Three Phase Test System by Direct Method	100 mV to 300 V	0.12 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ digit multimeter by Direct Method	100 V to 750 V	0.1 % to 0.13 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using Three Phase Test System by Direct method	300 V to 600 V	0.12 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct Method	6 kV to 20 kV	1.97 % to 6.32 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 Lead, 230 V, 10 A to 100 A	UsingThree Phase Test System by Direct Method	1.84 kWh to 18.4 kWh	0.33 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz @ Unity 230V ,0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 Wh to 23 kWh	0.33 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.5 Lag, 110 V, 1 A to 100 A	Using Three Phase Test System by Direct Method	55 Wh to 5.5 kWh	0.33 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 Lead, 110 V , 10 A to 100 A	Using Three Phase Test System by Direct method	880 Wh to 8.8 kWh	0.33 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz,Unity, 110 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	11 Wh to 11 kWh	0.33 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (Single Phase/three Phase-4 wire) @ 50 Hz @ 0.5 Lag 230 V,1 A to 100 A	Using Three Phase Test System by Direct Method	115 W to 11500 W	0.33 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (Single Phase/three Phase-4 Wire) @ 50 Hz, Unity, 230 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 W to 23000 W	0.33 %

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (Single Phase/three Phase-4wire) @ 50 Hz, 0.8 Lead, 230 V, 10 A to 100 A	Using Three Phase Test System by Direct Method	1840 W to 18400 W	0.33 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz 0.2 -1 Lag /Lead (single phase/ three phase)	Using Three Phase Test System by Direct Method	0.2 PF to 1 PF	0.002 PF
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 50 Hz	Using Multi Product Calibrator with current coil by Direct Method	100 A to 550 A	0.92 % to 0.34 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 1 kHz to 5 kHz	Using Multi product Calibrator by Direct method	10 mA to 1 A	0.3 % to 0.14 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 mA to 100 mA	0.14 %

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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.5 % to 0.3 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	30 µA to 10 mA	1.10 % to 0.14 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Three Phase Test System by Direct Method	0.01 A to 1 A	0.12 % to 0.13 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Three Phase Test System by Direct Method	1 A to 10 A	0.13 % to 0.18 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Three Phase Test System by Direct Method	10 A to 120 A	0.18 % to 0.16 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 50 Hz	Using Multi Product Calibrator with current Coil by Direct Method	5 A to 100 A	2.83 % to 0.92 %

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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.15 % to 0.18 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (Single Phase/three Phase-4 wire) @ 50 Hz, 0.8 Lead, 230 V,10 A to 100 A	Using Three Phase Test System by Direct Method	1840 W to 18400 W	0.20 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase @ 50 Hz, 0.2 Lag, 120 V to 240 V ,0.1 A to 10 A	Using Multi product Calibrator by Direct method	2.4 W to 480 W	1.14 % to 0.07 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase @ 50 Hz, 0.5 Lag, 120 V to 240 V ,0.1 A to 10A	Using Multi product Calibrator by Direct Method	6 W to 1.2 kW	0.54 % to 0.17 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase @ 50 Hz, UPF, 120 V to 240 V , 0.01 A to 10 A	Using Multi Product Calibrator by Direct Method	1.2 W to 2.4 kW	0.18 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power single phase @ 50 Hz, 0.8 Lead, 120 V to 240 V ,0.1 A to 10 A	Using Multi product Calibrator by Direct Method	9.6 W to 1.92 kW	0.4 % to 0.25 %

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37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 10 kHz	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.11 % to 0.3 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 100 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.8 % to 0.5 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 100 kHz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.35 % to 0.5 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 18 kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.24 % to 0.14 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 90 kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	2.24 % to 0.47 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	2.75 % to 0.65 %

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43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.23 % to 0.24 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.65 % to 0.35 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator,Direct Method	100 mV to 1 V	0.35 % to 0.23 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 kHz	Using Multi Product Calibrator by Direct method	10 mV to 10 V	0.46 % to 0.12 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.2 % to 0.07 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator,Direct Method	100 V to 1000 V	0.07 %

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49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Three Phase Test System by Direct Method	20 V to 300 V	0.20 % to 0.13 %
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Three Phase Test Syststem by Direct Method	300 V to 600 V	0.13 % to 0.02 %
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.5 lag, 110 V, 1 A to 100 A	Using Three Phase Test System by Direct Method	55 wh to 5.5 kWh	0.17 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 lead, 110 V, 10 A to 100 A	Using Three Phase Test System by Direct Method	880 Wh to 8.8 kWh	0.17 % to 0.20 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 Lead, 230 V , 10 A to 100 A	Using Three Phase Test System by Direct Method	1.84 kWh to 18.4 kWh	0.20 %
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, Unity, 110 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	11 Wh to 11 kWh	0.16 %

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55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, Unity, 230 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 Wh to 23 kWh	0.20 %
56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Power (Single Phase/three Phase-4 wire) @ 50 Hz, 0.5 Lag, 230 V,1 A to 100 A	Using Three Phase Test System by Direct Method	115 W to 11500 W	0.20 %
57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Power (Single Phase/three Phase-4 Wire) @ 50 Hz, Unity, 230 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 W to 23000 W	0.20 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	0.35 nF to 10 nF	4.25 % to 0.7 %
59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade capacitance box by Direct Method	10 nF to 1 µF	0.7 % to 0.8 %
60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @100 Hz	Using Multi Product Calibrator by Direct Method	1.09 µF to 1.1 mF	0.4 % to 1.3 %

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61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	1 mH to 9 H	2.31 % to 2.6 %
62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 0.2 -1 Lag	Using Multi Product Calibrator by Direct Method	0.2 PF to 1 PF	0.003 PF
63	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 0.2 -1 Lag /Lead (single phase/ three phase)	Using Three Phase Test System by Direct Method	0.2 PF to 1 PF	0.01 PF
64	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 0.2 -1 Lead	Using Multi Product Calibrator by Direct Method	0.2 PF to 1 PF	0.003 PF to 0.001 PF
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 100 mA	0.15 % to 0.1 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.14 %

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67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2-Wire)	Using 6½ Digit Multimeter by Direct Method	110 kohm to 1 Mohm	0.01 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2-Wire)	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.01 % to 0.05 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2-Wire)	Using 6½ Digit Multimeter by Direct Method	10 M ohm to 100 M ohm	0.05 % to 0.2 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(4-Wire)	Using 6½ Digit Multimeter by Direct Method	10 ohm to 100 ohm	0.5 % to 0.02 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(4-Wire)	Using 6½ Digit Multimeter by Direct Method	100 ohm to 100 k ohm	0.02 % to 0.01 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Probe with 4½ Digit Multimeter by Direct Method	1 kV to 12 kV	1.17 % to 2.81 %

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73	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 100 V	0.004 % to 0.006 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.05 % to 0.01 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.01 % to 0.004 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 V to 1000 V	0.006 % to 0.01 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 µA to 100 mA	0.6 % to 0.02 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.05 % to 0.07 %

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79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with current coil by Direct Method	10 A to 550 A	0.89 % to 2.82 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.02 % to 0.05 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multi Product Calibrator by Direct Method	1 ohm to 100 ohm	1.15 % to 0.03 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box by Direct Method	100 Mohm to 1 Gohm	0.6 % to 1.15 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box by Direct Method	1 Gohm to 100 Gohm	1.15 % to 2.96 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box by Direct Method	1 Mohm to 10 Mohm	0.02 % to 0.08 %

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85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Multi Product Calibrator and Decade Resistance Box by Direct Method	10 kohm to 1 Mohm	0.02 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box and Multi product Calibrator by Direct Method	10 Mohm to 100 Mohm	0.08 % to 0.6 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Multi Product Calibrator and Decade Resistance Box by Direct Method	100 mohm to 1 ohm	0.12 % to 0.50 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Multi Product Calibrator and Decade Resistance Box by Direct Method	100 ohm to 10 kohm	0.03 % to 0.02 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	0.37 % to 0.04 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.04 % to 0.01 %

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91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 µV to 1 mV	3.48 % to 0.37 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.01 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 V to 100 V	0.01 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.01 %
95	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Current Transformer Ratio Error @ 50 Hz	Using Three Phase Test System by Direct Method	10 A to 100 A	0.15 %
96	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude(Square/Sine/Triangle Wave Signal)	Using Multi Product Calibrator by Direct Method	5 mV to 55 V	1.8 % to 2.3 %

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97	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Multi Product Calibrator by Direct Method	50 kHz to 200 MHz	2.31 % to 1.16 %
98	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Marker	Using Multi Product Calibrator by Direct Method	2 ns to 5 s	1.2 %
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using Digital Temperature Read out by Direct Method	(-) 200 °C to 1000 °C	0.17 °C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J - Type Thermocouple	Using Digital Temperature Readout by Direct Method	(-) 200 °C to 1000 °C	0.2 °C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K - Type Thermocouple	Using Digital Temperature Readout by Direct Method	(-) 200 °C to 1300 °C	0.27 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N - Type Thermocouple	Using Digital Temperature Read out by Direct Method	(-) 200 °C to 1200 °C	0.23 °C

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103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R - Type Thermocouple	Using Digital Thermometer by Direct Method	1 °C to 1750 °C	0.8 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using digital Thermometer by Direct Method	(-) 200 °C to 800 °C	0.56 °C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using Digital thernometer by Direct Method	1 °C to 1700 °C	0.8 °C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T - Type Thermocouple	Using Digital thermometer by Direct Method	(-) 200 °C to 300 °C	0.19 °C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.58 °C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J -Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.32 °C

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109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouplee	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.47 °C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.47 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R -Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1700 °C	0.70 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multi product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.3 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1767 °C	0.60 °C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.3 °C

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115	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 100 Hz	0.06 % to 0.01 %
116	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	100 Hz to 500 kHz	0.01 % to 0.02 %
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Three Phase Test System by Direct Method	40 Hz to 70 Hz	0.04 %
118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Universal Time and Frequency counter by comparision Method	1 s to 10 s	0.13 s
119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Universal Time and Frequency counter by Comparision Method	10 s to 90 min	0.13 s to 0.56 s
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	10 Hz to 100 Hz	0.6 % to 0.06 %

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121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 Hz to 100 kHz	0.06 %
122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 kHz to 500 kHz	0.06 % to 0.01 %
123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Three Phase Test System by Direct Method	45 Hz to 65 Hz	0.04 %
124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	500 kHz to 1 MHz	0.01 % to 0.1 %
125	MECHANICAL-ACCELERATION AND SPEED	Tachometer (Contact Type)	Using Digital Tachometer and RPM Source by Comparison Method	100 rpm to 3000 rpm	2.91 rpm
126	MECHANICAL-ACCELERATION AND SPEED	Tachometer/RPM Indicator with Sensor (Non Contact Type)	Using Tachometer and RPM Source by Comparison Method	60 rpm to 20000 rpm	1.87 rpm

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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Three Phase Test System by Direct method	0.01 A to 1 A	0.59 % to 0.13 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Three Phase Test System by Direct method	1 A to 10 A	0.13 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Three Phase Test System by Direct method	10 A to 120 A	0.13 % to 0.24 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 mA to 100 mA	4.8 % to 0.45 %

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.45 % to 0.24 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using HV Probe with 4½ Digital Multimeter by Direct Method	0.75 kV to 6 kV	1.19 % to 1.97 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	10 V to 100 V	0.1 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit Multimeter by Direct Method	100 mV to 10 V	0.72 % to 0.1 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using Three Phase Test System by Direct Method	100 mV to 300 V	0.12 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ digit multimeter by Direct Method	100 V to 750 V	0.1 % to 0.13 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using Three Phase Test System by Direct method	300 V to 600 V	0.12 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using HV Probe with Digital Multimeter by Direct Method	6 kV to 20 kV	1.97 % to 6.32 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 Lead, 230 V, 10 A to 100 A	UsingThree Phase Test System by Direct Method	1.84 kWh to 18.4 kWh	0.33 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz @ Unity 230V ,0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 Wh to 23 kWh	0.33 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.5 Lag, 110 V, 1 A to 100 A	Using Three Phase Test System by Direct Method	55 Wh to 5.5 kWh	0.33 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 Lead, 110 V , 10 A to 100 A	Using Three Phase Test System by Direct method	880 Wh to 8.8 kWh	0.33 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (Single Phase/three Phase) @ 50 Hz,Unity, 110 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	11 Wh to 11 kWh	0.33 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (Single Phase/three Phase-4 wire) @ 50 Hz @ 0.5 Lag 230 V,1 A to 100 A	Using Three Phase Test System by Direct Method	115 W to 11500 W	0.33 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (Single Phase/three Phase-4 Wire) @ 50 Hz, Unity, 230 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 W to 23000 W	0.33 %

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (Single Phase/three Phase-4wire) @ 50 Hz, 0.8 Lead, 230 V, 10 A to 100 A	Using Three Phase Test System by Direct Method	1840 W to 18400 W	0.33 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 50 Hz 0.2 -1 Lag /Lead (single phase/ three phase)	Using Three Phase Test System by Direct Method	0.2 PF to 1 PF	0.002 PF
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 50 Hz	Using Multi Product Calibrator with current coil by Direct Method	100 A to 550 A	0.92 % to 0.34 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 1 kHz to 5 kHz	Using Multi product Calibrator by Direct method	10 mA to 1 A	0.3 % to 0.14 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 mA to 100 mA	0.14 %

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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.5 % to 0.3 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	30 µA to 10 mA	1.10 % to 0.14 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Three Phase Test System by Direct Method	0.01 A to 1 A	0.12 % to 0.13 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Three Phase Test System by Direct Method	1 A to 10 A	0.13 % to 0.18 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Three Phase Test System by Direct Method	10 A to 120 A	0.18 % to 0.16 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current @ 50 Hz	Using Multi Product Calibrator with current Coil by Direct Method	5 A to 100 A	2.83 % to 0.92 %

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31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC current 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.15 % to 0.18 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power (Single Phase/three Phase-4 wire) @ 50 Hz, 0.8 Lead, 230 V,10 A to 100 A	Using Three Phase Test System by Direct Method	1840 W to 18400 W	0.20 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase @ 50 Hz, 0.2 Lag, 120 V to 240 V ,0.1 A to 10 A	Using Multi product Calibrator by Direct method	2.4 W to 480 W	1.14 % to 0.07 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase @ 50 Hz, 0.5 Lag, 120 V to 240 V ,0.1 A to 10A	Using Multi product Calibrator by Direct Method	6 W to 1.2 kW	0.54 % to 0.17 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power 1 phase @ 50 Hz, UPF, 120 V to 240 V , 0.01 A to 10 A	Using Multi Product Calibrator by Direct Method	1.2 W to 2.4 kW	0.18 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Power single phase @ 50 Hz, 0.8 Lead, 120 V to 240 V ,0.1 A to 10 A	Using Multi product Calibrator by Direct Method	9.6 W to 1.92 kW	0.4 % to 0.25 %

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37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 10 kHz	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.11 % to 0.3 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 100 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.8 % to 0.5 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 100 kHz	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.35 % to 0.5 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 18 kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.24 % to 0.14 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 1 kHz to 90 kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	2.24 % to 0.47 %
42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	2.75 % to 0.65 %

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43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	1 V to 10 V	0.23 % to 0.24 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.65 % to 0.35 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 10 Hz to 1 kHz	Using Multi Product Calibrator,Direct Method	100 mV to 1 V	0.35 % to 0.23 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 20 kHz	Using Multi Product Calibrator by Direct method	10 mV to 10 V	0.46 % to 0.12 %
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator by Direct Method	10 V to 100 V	0.2 % to 0.07 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Multi Product Calibrator,Direct Method	100 V to 1000 V	0.07 %

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49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Three Phase Test System by Direct Method	20 V to 300 V	0.20 % to 0.13 %
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Three Phase Test Syststem by Direct Method	300 V to 600 V	0.13 % to 0.02 %
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.5 lag, 110 V, 1 A to 100 A	Using Three Phase Test System by Direct Method	55 wh to 5.5 kWh	0.17 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 lead, 110 V, 10 A to 100 A	Using Three Phase Test System by Direct Method	880 Wh to 8.8 kWh	0.17 % to 0.20 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, 0.8 Lead, 230 V , 10 A to 100 A	Using Three Phase Test System by Direct Method	1.84 kWh to 18.4 kWh	0.20 %
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, Unity, 110 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	11 Wh to 11 kWh	0.16 %

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55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Energy (Single Phase/three Phase) @ 50 Hz, Unity, 230 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 Wh to 23 kWh	0.20 %
56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Power (Single Phase/three Phase-4 wire) @ 50 Hz, 0.5 Lag, 230 V,1 A to 100 A	Using Three Phase Test System by Direct Method	115 W to 11500 W	0.20 %
57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Active Power (Single Phase/three Phase-4 Wire) @ 50 Hz, Unity, 230 V, 0.1 A to 100 A	Using Three Phase Test System by Direct Method	23 W to 23000 W	0.20 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Multi Product Calibrator by Direct Method	0.35 nF to 10 nF	4.25 % to 0.7 %
59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @ 1 kHz	Using Decade capacitance box by Direct Method	10 nF to 1 µF	0.7 % to 0.8 %
60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Capacitance @100 Hz	Using Multi Product Calibrator by Direct Method	1.09 µF to 1.1 mF	0.4 % to 1.3 %

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61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Inductance @ 1 kHz	Using Decade Inductance Box by Direct Method	1 mH to 9 H	2.31 % to 2.6 %
62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 0.2 -1 Lag	Using Multi Product Calibrator by Direct Method	0.2 PF to 1 PF	0.003 PF
63	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 0.2 -1 Lag /Lead (single phase/ three phase)	Using Three Phase Test System by Direct Method	0.2 PF to 1 PF	0.01 PF
64	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Power Factor @ 50 Hz, 0.2 -1 Lead	Using Multi Product Calibrator by Direct Method	0.2 PF to 1 PF	0.003 PF to 0.001 PF
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	1 mA to 100 mA	0.15 % to 0.1 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit Multimeter by Direct Method	100 mA to 3 A	0.14 %

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67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance (2-Wire)	Using 6½ Digit Multimeter by Direct Method	110 kohm to 1 Mohm	0.01 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2-Wire)	Using 6½ Digit Multimeter by Direct Method	1 Mohm to 10 Mohm	0.01 % to 0.05 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(2-Wire)	Using 6½ Digit Multimeter by Direct Method	10 M ohm to 100 M ohm	0.05 % to 0.2 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(4-Wire)	Using 6½ Digit Multimeter by Direct Method	10 ohm to 100 ohm	0.5 % to 0.02 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Resistance(4-Wire)	Using 6½ Digit Multimeter by Direct Method	100 ohm to 100 k ohm	0.02 % to 0.01 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using HV Probe with 4½ Digit Multimeter by Direct Method	1 kV to 12 kV	1.17 % to 2.81 %

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73	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	1 V to 100 V	0.004 % to 0.006 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	10 mV to 100 mV	0.05 % to 0.01 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit Multimeter by Direct Method	100 mV to 1 V	0.01 % to 0.004 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digital Multimeter by Direct Method	100 V to 1000 V	0.006 % to 0.01 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	10 µA to 100 mA	0.6 % to 0.02 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	1 A to 10 A	0.05 % to 0.07 %

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79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator with current coil by Direct Method	10 A to 550 A	0.89 % to 2.82 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multi Product Calibrator by Direct Method	100 mA to 1 A	0.02 % to 0.05 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multi Product Calibrator by Direct Method	1 ohm to 100 ohm	1.15 % to 0.03 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box by Direct Method	100 Mohm to 1 Gohm	0.6 % to 1.15 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box by Direct Method	1 Gohm to 100 Gohm	1.15 % to 2.96 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box by Direct Method	1 Mohm to 10 Mohm	0.02 % to 0.08 %

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85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Multi Product Calibrator and Decade Resistance Box by Direct Method	10 kohm to 1 Mohm	0.02 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Decade Meg ohm Box and Multi product Calibrator by Direct Method	10 Mohm to 100 Mohm	0.08 % to 0.6 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Multi Product Calibrator and Decade Resistance Box by Direct Method	100 mohm to 1 ohm	0.12 % to 0.50 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance(2 Wire)	Using Multi Product Calibrator and Decade Resistance Box by Direct Method	100 ohm to 10 kohm	0.03 % to 0.02 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 mV to 10 mV	0.37 % to 0.04 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	10 mV to 100 mV	0.04 % to 0.01 %

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91	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 µV to 1 mV	3.48 % to 0.37 %
92	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 V to 1000 V	0.01 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	1 V to 100 V	0.01 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Product Calibrator by Direct Method	100 mV to 1 V	0.01 %
95	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Current Transformer Ratio Error @ 50 Hz	Using Three Phase Test System by Direct Method	10 A to 100 A	0.15 %
96	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude(Square/Sine/Triangle Wave Signal)	Using Multi Product Calibrator by Direct Method	5 mV to 55 V	1.8 % to 2.3 %

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97	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Multi Product Calibrator by Direct Method	50 kHz to 200 MHz	2.31 % to 1.16 %
98	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Marker	Using Multi Product Calibrator by Direct Method	2 ns to 5 s	1.2 %
99	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using Digital Temperature Read out by Direct Method	(-) 200 °C to 1000 °C	0.17 °C
100	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J - Type Thermocouple	Using Digital Temperature Readout by Direct Method	(-) 200 °C to 1000 °C	0.2 °C
101	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K - Type Thermocouple	Using Digital Temperature Readout by Direct Method	(-) 200 °C to 1300 °C	0.27 °C
102	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N - Type Thermocouple	Using Digital Temperature Read out by Direct Method	(-) 200 °C to 1200 °C	0.23 °C

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103	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R - Type Thermocouple	Using Digital Thermometer by Direct Method	1 °C to 1750 °C	0.8 °C
104	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD	Using digital Thermometer by Direct Method	(-) 200 °C to 800 °C	0.56 °C
105	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using Digital thernometer by Direct Method	1 °C to 1700 °C	0.8 °C
106	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T - Type Thermocouple	Using Digital thermometer by Direct Method	(-) 200 °C to 300 °C	0.19 °C
107	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.58 °C
108	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J -Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.32 °C

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109	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouplee	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1372 °C	0.47 °C
110	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.47 °C
111	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R -Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1700 °C	0.70 °C
112	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD	Using Multi product Calibrator by Direct Method	(-) 200 °C to 800 °C	0.3 °C
113	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Multi Product Calibrator by Direct Method	0 °C to 1767 °C	0.60 °C
114	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T - Type Thermocouple	Using Multi Product Calibrator by Direct Method	(-) 200 °C to 400 °C	0.3 °C

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115	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	10 Hz to 100 Hz	0.06 % to 0.01 %
116	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit Multimeter by Direct Method	100 Hz to 500 kHz	0.01 % to 0.02 %
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Three Phase Test System by Direct Method	40 Hz to 70 Hz	0.04 %
118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Universal Time and Frequency counter by comparision Method	1 s to 10 s	0.13 s
119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Universal Time and Frequency counter by Comparision Method	10 s to 90 min	0.13 s to 0.56 s
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	10 Hz to 100 Hz	0.6 % to 0.06 %

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121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 Hz to 100 kHz	0.06 %
122	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	100 kHz to 500 kHz	0.06 % to 0.01 %
123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Three Phase Test System by Direct Method	45 Hz to 65 Hz	0.04 %
124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Product Calibrator by Direct Method	500 kHz to 1 MHz	0.01 % to 0.1 %
125	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (L.C: 0.001 mm) - Magnification	Using Gauge Blocks by Comparison Method	10 X to 100 X	0.8 %
126	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector - Angular Scale (L.C: 0.01 second)	Using Angle Gauges by Comparison Method	0 ° to 360 °	3 min. of Arc.