



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

YADAV MEASUREMENTS PRIVATE LIMITED

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

PLOT NO F- 373-375, RIICO BHAMASHAH INDUSTRIAL AREA, KALADWAS, UDAIPUR, RAJASTHAN,
INDIA

in the field of

CALIBRATION

Certificate Number: CC-2735

Issue Date: 09/06/2022

Valid Until: 08/06/2024

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 this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : Yadav Measurements Private Limited

Signed for and on behalf of NABL



N. Venkateswaran
Chief Executive Officer



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : YADAV MEASUREMENTS PRIVATE LIMITED, PLOT NO F- 373-375, RIICO BHAMASHAH INDUSTRIAL AREA, KALADWAS, UDAIPUR, RAJASTHAN, INDIA

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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 Active /Reactive Energy single phase Active Cos $\emptyset \pm 0.1$ to 1, Reactive Sin $\emptyset \pm 0.1$ to 1 (50 Hz, 480 V to 1000 V, 1 mA to 20 A, Active / Reactive)	Using PT and 3 phase reference by Direct Method/ Comparison Method	0.4 mWh/Varh to 20 kWh/kVArh	0.07 % to 0.52 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active /Reactive Power single phase Active Cos $\emptyset \pm 0.1$ to 1, Reactive Sin $\emptyset \pm 0.1$ to 1 (50 Hz, 480 V to 1000 V, 1 mA to 20 A, Active / Reactive)	Using PT and 3 Phase reference by Direct Method/Comparison Method	0.048 W/VAR to 20 kW/kVAR	0.07 % to 0.52 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy single and three phase Cos $\emptyset \pm 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, >100A to 120A, Active)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	27.777mWh to 172.8 kWh	0.0103 % to 1.000 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy single and three phase Cos $\emptyset \pm 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, >10A to 100A, Active)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	2.777 mWh to 144 kWh	0.0039 % to 0.4000 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy single and three phase Cos $\emptyset \pm 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, >10mA to 10A, Active)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.0083 mWh to 14.4 kWh	0.0032 % to 0.4000 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy single and three phase Cos $\emptyset \pm 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, 1mA to 10mA, Active)	Using Precision 3 Phase reference by Direct Method/ Comparison Method:	0.00083 mWh to 14.4 Wh	0.0202 % to 3.0000 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power single and three phase Cos $\emptyset \pm 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, >100A to 120A, Active)	Using Precision 3 Phase reference by Direct Method/Comparison Method	0.01 kW to 172.8 kW	0.0103 % to 1.000 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power single and three phase Cos $\emptyset \pm 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, >10A to 100A, Active)	Using Precision 3 Phase reference by Direct Method/Comparison Method	1 W to 144 kW	0.0039 % to 0.4000 %



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9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Active Power single and three phase Cos $\phi \pm 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, >10mA to 10A, Active)	Using Precision 3 Phase reference by Direct Method/Comparison Method	1 mW to 14.4 kW	0.0032 % to 0.4000 %
10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Active power single and three phase Cos $\phi \pm 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, 1mA to 10mA, Active)	Using Precision 3 Phase reference by Direct Method/Comparison Method	0.1 mW to 14.4 W	0.0202 % to 3.0000 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40Hz to 70Hz, 10V to 480V, >100A to 120A, Apparent)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	2.777 VAh to 172.8 kVAh	0.0146 % to 0.1414 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40Hz to 70Hz, 10V to 480V, >10A to 100A, Apparent)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	277.777 mVAh to 144 kVAh	0.0055 % to 0.0567 %
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40Hz to 70Hz, 10V to 480V, >10mA to 10A, Apparent)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.833mVAh to 14.4 kVAh	0.0045 % to 0.0567 %



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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40Hz to 70Hz, 10V to 480V, 1mA to 10mA, Apparent)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.0833 mVAh to 14.4 VAh	0.0286 % to 0.4243 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase (40Hz to 70Hz, 10V to 480V, >10mA to 10A, Apparent)	Using Precision 3 Phase reference by Direct Method/Comparison Method	100 mVA to 14.4 kVA	0.0045 % to 0.0567 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase (40Hz to 70Hz, 10V to 480V, 1mA to 10mA, Apparent)	Using Precision 3 Phase reference by Direct Method/Comparison Method	10 mVA to 14.4 VA	0.0286 % to 0.4243 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase (40Hz to 70Hz, 10V to 480V, >10A to 100A, Apparent)	Using Precision 3 Phase reference by Direct Method/Comparison Method	100 VA to 144 kVA	0.0055 % to 0.0567 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase(40Hz to 70Hz, 10V to 480V, >100A to 120A, Apparent)	Using Precision 3 Phase reference by Direct Method/Comparison Method	1 kVA to 172.8 kVA	0.0146 % to 0.1414 %



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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current	Using 8 ½ DMM by Direct Method and Comparison Method	20 mA to 200 mA (40 Hz to 1 kHz)	0.298 % to 0.090 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current	Using 8 ½ DMM By Direct Method and Comparison Method	200 µA to 2 mA (40 Hz to 1 kHz)	0.139 % to 0.093 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current	Using 8 ½ DMM by Direct Method and Comparison Method	200 mA to 2 A (40 Hz to 1 kHz)	0.374 % to 0.166 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (1kHz to to 10kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	200 µA to 10 A	0.093 % to 0.236 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (40 Hz to 1 kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	2 A to 20 A	0.420% to 0.236%



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24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (40 Hz to 70 Hz)	Using Precision 3 Phase reference by Direct Method/Comparison Method	>100 A to 120 A	0.012%
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using precision CT setup & 3 Phase reference by Direct Method/Comparison Method	120 A to 2000 A	0.10%
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current(40 Hz to 1 kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	2 mA to 20 mA	0.300 % to 0.093 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current(40 Hz to 70 Hz)	Using Precision 3 Phase reference by Direct Method/Comparison Method	>20 mA to 100 A	0.009%
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current(40 Hz to 70 Hz)	Using Precision 3 Phase reference by Direct Method/Comparison Method	1 mA to 20 mA	0.024%



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29	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power single phase Active Cos \emptyset \pm 0.01 to 0.1 (50 Hz, 480 V to 1000 V, 0.1 A to 20 A)	Using PT& 3 Phase reference by Comparison Method	0.48 W to 2 kW	0.52 % to 5.14 %
30	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy single and three phase Sin \emptyset \pm 0.1 to 1 (40Hz to 70Hz, 10V to 480V, >100A to 120A, Reactive)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	277.278 mVarh to 172.8 kVarh	0.0103 % to 0.1000 %
31	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy single and three phase Sin \emptyset \pm 0.1 to 1 (40Hz to 70Hz, 10V to 480V, >10A to 100A, Reactive)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	27.777 mVarh to 144 kVarh	0.0039 % to 0.0401 %
32	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy single and three phase Sin \emptyset \pm 0.1 to 1 (40Hz to 70Hz, 10V to 480V, >10mA to 10A, Reactive)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.0833 mVarh to 14.4 kVarh	0.0032 % to 0.0401 %
33	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin \emptyset \pm 0.1 to 1 (40Hz to 70Hz, 10V to 480V, >100A to 120A, Reactive)	Using Precision 3 Phase reference by Direct Method/Comparison Method	0.1 kVar to 172.8 kVar	0.0103 % to 0.1000 %



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34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin $\emptyset \pm 0.1$ to 1 (40Hz to 70Hz, 10V to 480V, >10mA to 10A, Reactive)	Using Precision 3 Phase reference by Direct Method/Comparison Method	10 mVar to 14.4 kVar	0.0032 % to 0.0401 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin $\emptyset \pm 0.1$ to 1 (40Hz to 70Hz, 10V to 480V, 1mA to 10mA, Reactive)	Using Precision 3 Phase reference by Direct Method/Comparison Method	1 mVar to 14.4 Var	0.0202 % to 0.3000 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin $\emptyset \pm 0.1$ to 1 (40Hz to 70Hz, 10V to 480V, >10A to 100A, Reactive)	Using Precision 3 Phase reference by Direct Method/Comparison Method	10 Var to 144 kVar	0.0039 % to 0.0401 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage	Using 8 ½ DMM By Direct Method and Comparison Method	20 V to 200 V (45 Hz to 1 kHz)	0.051 % to 0.024 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 1 kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	1 mV to 200 mV	1.175 % to 0.028 %



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39	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage (1 kHz to 10 kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	100 V to 1000 V	0.021 % to 0.155 %
40	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 1 kHz)	Using 8 1/2 DMM By Direct Method and Comparison Method	200 mV to 20 V	0.051 % to 0.020 %
41	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage (45 Hz to 1 kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	200 V to 1000 V	0.050 % to 0.032 %
42	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 3 Phase reference & EMVT, Capacitor by Direct Method/ Comparison Method	480 V to 90 kV	0.10%
43	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage(1 kHz to 100 kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	10 mV to 100 V	0.020 % to 0.643 %



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44	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage(1kHz to 300kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	200 mV to 10 V	3.001 % to 0.028 %
45	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage(40 Hz to 70 Hz)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	10 V to 480 V	0.006 % to 0.007 %
46	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Precision 3 Phase reference by Direct Method/Comparison Method	2 nd to 40 th Harmonic (10 mA to 100 A)	0.501%
47	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Precision 3 Phase reference by Direct Method/Comparison Method	2 nd to 40 th Harmonic (10 V to 240 V)	0.501%
48	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Phase Angle	Using Precision 3 Phase reference by Direct Method/Comparison Method	0 ° to 360 ° (40 Hz to 70 Hz)	0.004°



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49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor (Cos \emptyset and Sin \emptyset , 40 Hz to 70 Hz)	Using Precision 3 Phase reference by Direct Method/Comparison Method	0.01 PF to 1 PF Lag/Lead	0.0001PF
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 1 kHz)	Using calibrator by Direct Method	1 mA to 1 A	0.138 % to 0.017 %
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 1 kHz)	Using calibrator by Direct Method	1 A to 20 A	0.017 % to 0.239 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage	Using 3 phase reference & EMVT by Direct Method	480 V (50 Hz) to 90 kV (50 Hz)	0.10%
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45Hz to 1 KHz)	Using calibrator by Direct Method	1 mV to 1 V	1.083 % to 0.052 %



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54	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage(45 Hz to 1 K Hz)	Using calibrator by Direct Method	1 V to 1000 V	0.052 % to 0.033 %
55	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison method	1 µA to 10 µA	0.095 % to 0.014 %
56	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	10 µA to 100 µA	0.014 % to 0.007 %
57	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM by Direct Method and Comparison Method	10 A to 20 A	0.102 % to 0.097 %
58	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	10 mA to 100 mA	0.005 % to 0.013 %
59	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	100 µA to 10 mA	0.007 % to 0.005 %



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60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	100 mA to 2 A	0.013 % to 0.045 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	2 A to 10 A	0.045 % to 0.102 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM By Direct Method and Comparison Method	1 mV to 10 mV	0.025 % to 0.004 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM By Direct Method and Comparison Method	10 mV to 100 mV	0.004 % to 0.0017 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM By Direct Method and Comparison Method	100 mV to 1000 V	0.0017 % to 0.0014 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM and Microohm meter by Direct Method	0.1 ohm to 1 ohm	0.016 % to 0.0094 %



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66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM and Microohm meter by Direct Method	1 mohm to 100 mohm	1.162 % to 0.016 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	1 ohm to 10 ohm	0.0094 % to 0.0028 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	10 Mohm to 100 Mohm	0.008 % to 0.052 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	10 ohm to 10 Mohm	0.0028 % to 0.008 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	100 Mohm to 220 Mohm	0.052 % to 1.401 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	220 Mohm to 1 Gohm	1.401 % to 0.588 %



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72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	1 A to 20 A	0.056 % to 0.581 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	1 mA to 100 mA	0.008 % to 0.013 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	100 mA to 1 A	0.013 % to 0.056 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using calibrator by Direct Method	1 mV to 100 mV	0.251 % to 0.003 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using calibrator by Direct Method	100 mV to 1000 V	0.003 % to 0.003 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance box by Direct Method	0.1 ohm to 1 ohm	2.517 % to 0.826 %



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78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Shunt by Direct Method	1 mohm and to 10 mohm	0.611 % to 0.231 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance box by Direct Method	1 mohm to 100 mohm	0.611 % to 2.517 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	1 ohm to 10 ohm	0.012 % to 0.003 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Value Resistance by direct method	1 Tohm	2.784%
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Value Resistance by direct method	10 Gohm	1.797%
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	10 Mohm to 100 Mohm	0.008 % to 0.083 %



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84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	10 ohm to 10 Mohm	0.003 % to 0.008 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Value Resistance by direct method:	100 Gohm	2.055%
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	100 Mohm to 220 Mohm	0.083 % to 1.445 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	220 Mohm to 1 Gohm	1.445 % to 1.114 %
88	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance & Tan Delta Up to 12kV	Using C & Tan delta tester by Direct Method	100 pF to 1000 pF	1.25%
89	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance & Tan delta Up to 12kV	Using C & Tan delta tester by Direct Method	5 % to 0.001 % (Tan delta)	1.0%



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90	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge	Using Precision current transformer & Automatic Instrument transformer test set &EMVT by Comparison Method	1 A, 5 A Current Ratio error	0.009 % to 0.021 %
91	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge	Using Precision current transformer & Automatic Instrument transformer test set & EMVT by Comparison Method	1 A, 5 A Current Phase error	0.39 min to 0.74 min
92	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge	Using Precision current transformer & Automatic Instrument transformer test set &EMVT by Comparison Method	63.5 V, 110 V Voltage Phase error	0.51min
93	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge	Using Precision current transformer & Automatic Instrument transformer test set & EMVT by Comparison Method	63.5 V, 110 V Voltage Ratio error	0.01%



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94	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection) Phase Error	Using Portable CT/VT Calibrator by Direct Method	10 A to 10000 A (Primary) 1 A, 5 A (Secondary) 5 A (Primary) 5 A (Secondary)	2.80 min to 6.29 min
95	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection) Phase Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	1 A to 5 A (Primary) 1 A, 5 A (Secondary)	3.02min
96	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection) Phase Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	2000 A to 10000 A (Primary) 1 A, 5 A (Secondary)	2.5min
97	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection) Phase Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	5 A to 2000 A (Primary) 1 A, 5 A (Secondary)	0.70 min to 1.23 min



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98	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection) Ratio Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	1 A to 5 A (Primary) 1 A, 5 A (Secondary)	0.062 % to 0.065 %
99	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection) Ratio Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	2000 A to 10000 A (Primary) 1 A, 5 A (Secondary)	0.05%
100	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection) Ratio Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	5 A to 2000 A (Primary) 1 A, 5 A (Secondary)	0.015 % to 0.032 %
101	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection) Ratio Error	Using Portable CT/VT Calibrator by Direct Method	10 A to 10000 A (Primary) 1 A, 5 A (Secondary) 5 A (Primary) 5 A (Secondary)	0.10%
102	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Magnetic Field AC Magnetic Field @50Hz	Using Gauss Meter by Direct/comparison Method	0.5 Gauss to 2000 Gauss	4.032 % to 3.032 %



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103	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Magnetic Field DC Magnetic Field	Using Gauss Meter by Direct/comparison Method	100 Gauss to 5000 Gauss	2.339 % to 2.312 %
104	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Phase Angle Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	110 V to 2.2 kV (Primary) 50.8 V to 132 V (Secondary)	4min
105	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Phase Angle Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	2.2 kV to 6.6 kV (Primary) 50.8 V to 132 V (Secondary)	2.73min
106	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Phase Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	11 kV to 33 kV (Primary) 50.8 V to 132 V (Secondary)	1.5min
107	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Phase Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	33 kV to 132 kV (Primary) 50.8 V to 132 V (Secondary)	2.0min
108	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Phase Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	6.6 kV to 11 kV (Primary) 50.8 V to 132 V (Secondary)	1.5min



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109	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Ratio Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	11 kV to 33 kV (Primary) 50.8 V to 132 V (Secondary)	0.016%
110	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Ratio Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	110 V to 2.2 kV (Primary) 50.8 V to 132 V (Secondary)	0.09%
111	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Ratio Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	2.2 kV to 6.6 kV (Primary) 50.8 V to 132 V (Secondary)	0.10%
112	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Ratio Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	33 kV to 132 kV (Primary) 50.8 V to 132 V (Secondary)	0.021%
113	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Ratio Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	6.6 kV to 11 kV (Primary) 50.8 V to 132 V (Secondary)	0.10 % to 0.016 %
114	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor Voltage Transformer/ Voltage Divider, Phase angle Error	Using Portable CT/VT calibrator by Direct Method	2.2 kV to 33 kV (Primary) 50.8 V to 132 V (Secondary)	5.6min



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115	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor Voltage Transformer/ Voltage Divider, Ratio Error	Using Portable CT/VT calibrator by Direct Method	2.2 kV to 33 kV (Primary) 50.8 V to 132 V (Secondary)	0.15%
116	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Voltage Ratio	Using ratio tester calibrator and 8.5 Digit Multimeter by V/V Comparison Method	1 Turn to 2000 Turn	2.39%
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Timer Counter Analyzer by Direct Method and Comparison Method	1 Hz to 300 MHz	0.00072 % to 0.00046 %
118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Precision 3 Phase reference by Direct Method/Comparison Method	40 Hz to 70 Hz	0.002 % to 0.002 %
119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Frequency Counter by Direct Method/Comparison Method	5 sec. to 10000 sec.	0.0006 sec. to 0.30 sec.
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using calibrator by Direct Method	10 Hz to 2 MHz	0.002 % to 0.087 %



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121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using calibrator, Signal generator by Direct Method	2 MHz to 300 MHz	0.087 % to 0.087 %
122	FLUID FLOW-FLOW MEASURING DEVICES	Flow rate by volume (air)	Using automatic test bench by comparison method with reference standard.	0.016 m ³ /hr to 2500 m ³ /hr (For Collection volume range of 0.003 m ³ to 2500 m ³)	0.30 % to 0.19 %
123	FLUID FLOW-FLOW MEASURING DEVICES	Flow rate by volume (air)	Using Bell Prover at temp.(20 ± 1)°C & at pressure Atm +5mbar by Comparison method with reference standard (Bell Prover)	0.016 m ³ /hour to 0.040 m ³ /hour For collection volume range of 0.003 to 0.01 m ³	0.62%
124	FLUID FLOW-FLOW MEASURING DEVICES	Flow rate by volume (air)	Using Bell Prover at temp.(20 ± 1)°C & at pressure Atm +5mbar by Comparison method with reference standard (Bell Prover)	0.040 m ³ /hour to 6.6 m ³ /hour For collection volume range of 0.01 to 0.08 m ³	0.17%



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125	FLUID FLOW-FLOW MEASURING DEVICES	Quantity by Volume (air)	Using Bell Prover at temp.(20 ± 1)°C & at pressure Atm +5mbar by Comparison method with reference standard (Bell Prover)	0.003 m3 to 0.01 m3 at flow rate range of 0.016 to 0.040 m3/hour	0.62%
126	FLUID FLOW-FLOW MEASURING DEVICES	Quantity by volume (air)	Using automatic test bench by comparison method with reference standard	0.003 m3 to 2500 m3 (For flow rate range from 0.016 m3/hr to 2500 m3/hr)	0.63 % to 0.23 %
127	FLUID FLOW-FLOW MEASURING DEVICES	Quantity by Volume (air)	Using Bell Prover at temp.(20 ± 1)°C & at pressure Atm +5mbar by Comparison method with reference standard (Bell Prover)	0.01 m3 to 0.08 m3 At flow rate range of 0.040 to 6.6 m3/hour	0.17%
128	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental chamber	Using RTD's (Minimum 9) with Data Acquisition System, Multi point calibration by Direct Method	(-)40 °C to 100 °C	1°C



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129	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental chamber	Using RTD's (Minimum 9) with Data Acquisition System, Multi point calibration by Direct Method	100 °C to 150 °C	1.4°C
130	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental chamber	Using RTD's (Minimum 9) with Data Acquisition System, Temperature & Rh indicator with sensor, Multi point calibration by comparison Method	20 %rh to 98 % rh @ 20°C to 70°C	3%rh
131	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator With or Without Sensor	Using Temperature & Rh indicator with sensor, Environmental chamber by Comparison method	20 % rh to 98 %rh @ 20°C to 70°C	1.75%rh
132	THERMAL-TEMPERATURE	RTD	Using PRT (PT 25) with thermometer read out & liquid bath by Comparison method	(-)-10 °C to 95 °C	0.03°C
133	THERMAL-TEMPERATURE	Temperature Indicator With Probe	Using PRT (PT 25) with thermometer read out & liquid bath by Comparison method	(-)-10 °C to 95 °C	0.07°C



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134	THERMAL-TEMPERATURE	Thermocouple	Using PRT (PT 25) with thermometer read out & liquid bath by Comparison method	(-)-10 °C to 95 °C	0.14°C
135	THERMAL-TEMPERATURE	Thermometer Read Out Inbuilt/External Sensor	Using SPRT with read out & Environmental chamber by Comparison method	(-)-40 °C to 150 °C	0.93°C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active /Reactive Energy single phase Active Cos $\emptyset \pm 0.1$ to 1, Reactive Sin $\emptyset \pm 0.1$ to 1 (50 Hz, 480 V to 1000 V, 1 mA to 20 A, Active / Reactive)	Using PT and 3 phase reference by Direct Method/ Comparison Method	0.4 mWh/Varh to 20 kWh/kVArh	0.07 % to 0.52 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active /Reactive Power single phase Active Cos $\emptyset \pm 0.1$ to 1, Reactive Sin $\emptyset \pm 0.1$ to 1 (50 Hz, 480 V to 1000 V, 1 mA to 20 A, Active / Reactive)	Using PT and 3 Phase reference by Direct Method/Comparison Method	0.048 W/VAR to 20 kW/kVAR	0.07 % to 0.52 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy single and three phase Cos $\emptyset +/- 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, >100A to 120A, Active)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	27.777mWh to 172.8 kWh	0.0103 % to 1.000 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy single and three phase Cos $\emptyset +/- 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, >10A to 100A, Active)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	2.777 mWh to 144 kWh	0.0039 % to 0.4000 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy single and three phase Cos $\emptyset \pm 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, >10mA to 10A, Active)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.0083 mWh to 14.4 kWh	0.0032 % to 0.4000 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy single and three phase Cos $\emptyset \pm 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, 1mA to 10mA, Active)	Using Precision 3 Phase reference by Direct Method/ Comparison Method:	0.00083 mWh to 14.4 Wh	0.0202 % to 3.0000 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power single and three phase Cos $\emptyset \pm 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, >100A to 120A, Active)	Using Precision 3 Phase reference by Direct Method/Comparison Method	0.01 kW to 172.8 kW	0.0103 % to 1.000 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power single and three phase Cos $\emptyset \pm 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, >10A to 100A, Active)	Using Precision 3 Phase reference by Direct Method/Comparison Method	1 W to 144 kW	0.0039 % to 0.4000 %



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9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power single and three phase Cos $\emptyset \pm 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, >10mA to 10A, Active)	Using Precision 3 Phase reference by Direct Method/Comparison Method	1 mW to 14.4 kW	0.0032 % to 0.4000 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active power single and three phase Cos $\emptyset \pm 0.01$ to 1 (40Hz to 70Hz, 10V to 480V, 1mA to 10mA, Active)	Using Precision 3 Phase reference by Direct Method/Comparison Method	0.1 mW to 14.4 W	0.0202 % to 3.0000 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40Hz to 70Hz, 10V to 480V, >100A to 120A, Apparent)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	2.777 VAh to 172.8 kVAh	0.0146 % to 0.1414 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40Hz to 70Hz, 10V to 480V, >10A to 100A, Apparent)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	277.777 mVAh to 144 kVAh	0.0055 % to 0.0567 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40Hz to 70Hz, 10V to 480V, >10mA to 10A, Apparent)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.833mVAh to 14.4 kVAh	0.0045 % to 0.0567 %



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14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40Hz to 70Hz, 10V to 480V, 1mA to 10mA, Apparent)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.0833 mVAh to 14.4 VAh	0.0286 % to 0.4243 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase (40Hz to 70Hz, 10V to 480V, >10mA to 10A, Apparent)	Using Precision 3 Phase reference by Direct Method/Comparison Method	100 mVA to 14.4 kVA	0.0045 % to 0.0567 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase (40Hz to 70Hz, 10V to 480V, 1mA to 10mA, Apparent)	Using Precision 3 Phase reference by Direct Method/Comparison Method	10 mVA to 14.4 VA	0.0286 % to 0.4243 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase (40Hz to 70Hz, 10V to 480V, >10A to 100A, Apparent)	Using Precision 3 Phase reference by Direct Method/Comparison Method	100 VA to 144 kVA	0.0055 % to 0.0567 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase(40Hz to 70Hz, 10V to 480V, >100A to 120A, Apparent)	Using Precision 3 Phase reference by Direct Method/Comparison Method	1 kVA to 172.8 kVA	0.0146 % to 0.1414 %



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19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current	Using 8 ½ DMM by Direct Method and Comparison Method	20 mA to 200 mA (40 Hz to 1 kHz)	0.298 % to 0.090 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current	Using 8 ½ DMM By Direct Method and Comparison Method	200 µA to 2 mA (40 Hz to 1 kHz)	0.139 % to 0.093 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current	Using 8 ½ DMM by Direct Method and Comparison Method	200 mA to 2 A (40 Hz to 1 kHz)	0.374 % to 0.166 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (1kHz to to 10kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	200 µA to 10 A	0.093 % to 0.236 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (40 Hz to 1 kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	2 A to 20 A	0.420% to 0.236%



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24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (40 Hz to 70 Hz)	Using Precision 3 Phase reference by Direct Method/Comparison Method	>100 A to 120 A	0.012%
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using precision CT setup & 3 Phase reference by Direct Method/Comparison Method	120 A to 2000 A	0.10%
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current(40 Hz to 1 kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	2 mA to 20 mA	0.300 % to 0.093 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current(40 Hz to 70 Hz)	Using Precision 3 Phase reference by Direct Method/Comparison Method	>20 mA to 100 A	0.009%
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current(40 Hz to 70 Hz)	Using Precision 3 Phase reference by Direct Method/Comparison Method	1 mA to 20 mA	0.024%



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29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power single phase Active Cos \emptyset \pm 0.01 to 0.1 (50 Hz, 480 V to 1000 V, 0.1 A to 20 A)	Using PT& 3 Phase reference by Comparison Method	0.48 W to 2 kW	0.52 % to 5.14 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy single and three phase Sin \emptyset \pm 0.1 to 1 (40Hz to 70Hz, 10V to 480V, >100A to 120A, Reactive)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	277.278 mVarh to 172.8 kVarh	0.0103 % to 0.1000 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy single and three phase Sin \emptyset \pm 0.1 to 1 (40Hz to 70Hz, 10V to 480V, >10A to 100A, Reactive)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	27.777 mVarh to 144 kVarh	0.0039 % to 0.0401 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy single and three phase Sin \emptyset \pm 0.1 to 1 (40Hz to 70Hz, 10V to 480V, >10mA to 10A, Reactive)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.0833 mVarh to 14.4 kVarh	0.0032 % to 0.0401 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin \emptyset \pm 0.1 to 1 (40Hz to 70Hz, 10V to 480V, >100A to 120A, Reactive)	Using Precision 3 Phase reference by Direct Method/Comparison Method	0.1 kVar to 172.8 kVar	0.0103 % to 0.1000 %



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34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin $\emptyset \pm 0.1$ to 1 (40Hz to 70Hz, 10V to 480V, >10mA to 10A, Reactive)	Using Precision 3 Phase reference by Direct Method/Comparison Method	10 mVar to 14.4 kVar	0.0032 % to 0.0401 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin $\emptyset \pm 0.1$ to 1 (40Hz to 70Hz, 10V to 480V, 1mA to 10mA, Reactive)	Using Precision 3 Phase reference by Direct Method/Comparison Method	1 mVar to 14.4 Var	0.0202 % to 0.3000 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin $\emptyset \pm 0.1$ to 1 (40Hz to 70Hz, 10V to 480V, >10A to 100A, Reactive)	Using Precision 3 Phase reference by Direct Method/Comparison Method	10 Var to 144 kVar	0.0039 % to 0.0401 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage	Using 8 ½ DMM By Direct Method and Comparison Method	20 V to 200 V (45 Hz to 1 kHz)	0.051 % to 0.024 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 1 kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	1 mV to 200 mV	1.175 % to 0.028 %



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39	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage (1 kHz to 10 kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	100 V to 1000 V	0.021 % to 0.155 %
40	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage (20 Hz to 1 kHz)	Using 8 1/2 DMM By Direct Method and Comparison Method	200 mV to 20 V	0.051 % to 0.020 %
41	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage (45 Hz to 1 kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	200 V to 1000 V	0.050 % to 0.032 %
42	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage @50 Hz	Using 3 Phase reference & EMVT, Capacitor by Direct Method/ Comparison Method	480 V to 90 kV	0.10%
43	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage(1 kHz to 100 kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	10 mV to 100 V	0.020 % to 0.643 %



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44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage(1kHz to 300kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	200 mV to 10 V	3.001 % to 0.028 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage(40 Hz to 70 Hz)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	10 V to 480 V	0.006 % to 0.007 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Precision 3 Phase reference by Direct Method/Comparison Method	2 nd to 40 th Harmonic (10 mA to 100 A)	0.501%
47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor	Using Precision 3 Phase reference by Direct Method/Comparison Method	2 nd to 40 th Harmonic (10 V to 240 V)	0.501%
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Phase Angle	Using Precision 3 Phase reference by Direct Method/Comparison Method	0 ° to 360 ° (40 Hz to 70 Hz)	0.004°



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49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor (Cos Ø and Sin Ø, 40 Hz to 70 Hz)	Using Precision 3 Phase reference by Direct Method/Comparison Method	0.01 PF to 1 PF Lag/Lead	0.0001PF
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 1 kHz)	Using calibrator by Direct Method	1 mA to 1 A	0.138 % to 0.017 %
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 1 kHz)	Using calibrator by Direct Method	1 A to 20 A	0.017 % to 0.239 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage	Using 3 phase reference & EMVT by Direct Method	480 V (50 Hz) to 90 kV (50 Hz)	0.10%
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45Hz to 1 KHz)	Using calibrator by Direct Method	1 mV to 1 V	1.083 % to 0.052 %



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54	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage(45 Hz to 1 K Hz)	Using calibrator by Direct Method	1 V to 1000 V	0.052 % to 0.033 %
55	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison method	1 µA to 10 µA	0.095 % to 0.014 %
56	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	10 µA to 100 µA	0.014 % to 0.007 %
57	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM by Direct Method and Comparison Method	10 A to 20 A	0.102 % to 0.097 %
58	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	10 mA to 100 mA	0.005 % to 0.013 %
59	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	100 µA to 10 mA	0.007 % to 0.005 %



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60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	100 mA to 2 A	0.013 % to 0.045 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	2 A to 10 A	0.045 % to 0.102 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM By Direct Method and Comparison Method	1 mV to 10 mV	0.025 % to 0.004 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM By Direct Method and Comparison Method	10 mV to 100 mV	0.004 % to 0.0017 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM By Direct Method and Comparison Method	100 mV to 1000 V	0.0017 % to 0.0014 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM and Microohm meter by Direct Method	0.1 ohm to 1 ohm	0.016 % to 0.0094 %



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66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM and Microohm meter by Direct Method	1 mohm to 100 mohm	1.162 % to 0.016 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	1 ohm to 10 ohm	0.0094 % to 0.0028 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	10 Mohm to 100 Mohm	0.008 % to 0.052 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	10 ohm to 10 Mohm	0.0028 % to 0.008 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	100 Mohm to 220 Mohm	0.052 % to 1.401 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	220 Mohm to 1 Gohm	1.401 % to 0.588 %



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72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	1 A to 20 A	0.056 % to 0.581 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	1 mA to 100 mA	0.008 % to 0.013 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	100 mA to 1 A	0.013 % to 0.056 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using calibrator by Direct Method	1 mV to 100 mV	0.251 % to 0.003 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using calibrator by Direct Method	100 mV to 1000 V	0.003 % to 0.003 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance box by Direct Method	0.1 ohm to 1 ohm	2.517 % to 0.826 %



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78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Shunt by Direct Method	1 mohm and to 10 mohm	0.611 % to 0.231 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Decade Resistance box by Direct Method	1 mohm to 100 mohm	0.611 % to 2.517 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	1 ohm to 10 ohm	0.012 % to 0.003 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Value Resistance by direct method	1 Tohm	2.784%
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Value Resistance by direct method	10 Gohm	1.797%
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	10 Mohm to 100 Mohm	0.008 % to 0.083 %



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84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	10 ohm to 10 Mohm	0.003 % to 0.008 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Value Resistance by direct method:	100 Gohm	2.055%
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	100 Mohm to 220 Mohm	0.083 % to 1.445 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	220 Mohm to 1 Gohm	1.445 % to 1.114 %
88	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance & Tan Delta Up to 12kV	Using C & Tan delta tester by Direct Method	100 pF to 1000 pF	1.25%
89	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance & Tan delta Up to 12kV	Using C & Tan delta tester by Direct Method	5 % to 0.001 % (Tan delta)	1.0%



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90	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge	Using Precision current transformer & Automatic Instrument transformer test set &EMVT by Comparison Method	1 A, 5 A Current Ratio error	0.009 % to 0.021 %
91	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge	Using Precision current transformer & Automatic Instrument transformer test set & EMVT by Comparison Method	1 A, 5 A Current Phase error	0.39 min to 0.74 min
92	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge	Using Precision current transformer & Automatic Instrument transformer test set &EMVT by Comparison Method	63.5 V, 110 V Voltage Phase error	0.51min
93	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge	Using Precision current transformer & Automatic Instrument transformer test set & EMVT by Comparison Method	63.5 V, 110 V Voltage Ratio error	0.01%



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94	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection) Phase Error	Using Portable CT/VT Calibrator by Direct Method	10 A to 10000 A (Primary) 1 A, 5 A (Secondary) 5 A (Primary) 5 A (Secondary)	2.80 min to 6.29 min
95	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection) Phase Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	1 A to 5 A (Primary) 1 A, 5 A (Secondary)	3.02min
96	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection) Phase Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	2000 A to 10000 A (Primary) 1 A, 5 A (Secondary)	2.5min
97	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection) Phase Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	5 A to 2000 A (Primary) 1 A, 5 A (Secondary)	0.70 min to 1.23 min



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98	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection) Ratio Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	1 A to 5 A (Primary) 1 A, 5 A (Secondary)	0.062 % to 0.065 %
99	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection) Ratio Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	2000 A to 10000 A (Primary) 1 A, 5 A (Secondary)	0.05%
100	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection) Ratio Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	5 A to 2000 A (Primary) 1 A, 5 A (Secondary)	0.015 % to 0.032 %
101	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection) Ratio Error	Using Portable CT/VT Calibrator by Direct Method	10 A to 10000 A (Primary) 1 A, 5 A (Secondary) 5 A (Primary) 5 A (Secondary)	0.10%
102	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Magnetic Field AC Magnetic Field @50Hz	Using Gauss Meter by Direct/comparison Method	0.5 Gauss to 2000 Gauss	4.032 % to 3.032 %



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103	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Magnetic Field DC Magnetic Field	Using Gauss Meter by Direct/comparison Method	100 Gauss to 5000 Gauss	2.339 % to 2.312 %
104	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Phase Angle Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	110 V to 2.2 kV (Primary) 50.8 V to 132 V (Secondary)	4min
105	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Phase Angle Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	2.2 kV to 6.6 kV (Primary) 50.8 V to 132 V (Secondary)	2.73min
106	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Phase Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	11 kV to 33 kV (Primary) 50.8 V to 132 V (Secondary)	1.5min
107	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Phase Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	33 kV to 132 kV (Primary) 50.8 V to 132 V (Secondary)	2.0min
108	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Phase Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	6.6 kV to 11 kV (Primary) 50.8 V to 132 V (Secondary)	1.5min



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109	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Ratio Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	11 kV to 33 kV (Primary) 50.8 V to 132 V (Secondary)	0.016%
110	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Ratio Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	110 V to 2.2 kV (Primary) 50.8 V to 132 V (Secondary)	0.09%
111	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Ratio Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	2.2 kV to 6.6 kV (Primary) 50.8 V to 132 V (Secondary)	0.10%
112	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Ratio Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	33 kV to 132 kV (Primary) 50.8 V to 132 V (Secondary)	0.021%
113	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor VOLTAGE TRANSFORMER/ VOLTAGE DIVIDER Ratio Error	Using Automatic Instrument transformer test set & EMVT by Comparison Method	6.6 kV to 11 kV (Primary) 50.8 V to 132 V (Secondary)	0.10 % to 0.016 %
114	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor Voltage Transformer/ Voltage Divider, Phase angle Error	Using Portable CT/VT calibrator by Direct Method	2.2 kV to 33 kV (Primary) 50.8 V to 132 V (Secondary)	5.6min



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115	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor Voltage Transformer/ Voltage Divider, Ratio Error	Using Portable CT/VT calibrator by Direct Method	2.2 kV to 33 kV (Primary) 50.8 V to 132 V (Secondary)	0.15%
116	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Voltage Ratio	Using ratio tester calibrator and 8.5 Digit Multimeter by V/V Comparison Method	1 Turn to 2000 Turn	2.39%
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Timer Counter Analyzer by Direct Method and Comparison Method	1 Hz to 300 MHz	0.00072 % to 0.00046 %
118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Precision 3 Phase reference by Direct Method/Comparison Method	40 Hz to 70 Hz	0.002 % to 0.002 %
119	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using calibrator by Direct Method	10 Hz to 2 MHz	0.002 % to 0.087 %
120	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using calibrator, Signal generator by Direct Method	2 MHz to 300 MHz	0.087 % to 0.087 %



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121	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental chamber	Using RTD's (Minimum 9) with Data Acquisition System, Multi point calibration by Direct Method	(-)40 °C to 100 °C	1°C
122	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental chamber	Using RTD's (Minimum 9) with Data Acquisition System, Multi point calibration by Direct Method	100 °C to 150 °C	1.4°C
123	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental chamber	Using RTD's (Minimum 9) with Data Acquisition System, Temperature & Rh indicator with sensor, Multi point calibration by comparison Method	20 %rh to 98 % rh @ 20°C to 70°C	3%rh

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