National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

YADAV MEASUREMENTS PVT. LTD

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: 09/06/2024 **Valid Until:** 08/06/2026

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: 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

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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 Energy single and three phase Cos Ø +/- 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 10 A to 100 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	2 Wh to 144 kWh	0.0047 % to 0.4000 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy single and three phase Cos Ø +/- 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 100 A to 120 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	20 Wh to 172.8 kWh	0.0162 % to 1.6000 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy single and three phase Cos Ø ± 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 1 mA to 10 mA)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.2 mWh to 14.4 Wh	0.0301 % to 3.0002 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy single and three phase Cos Ø ± 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 10 mA to 10 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.002 Wh to 14.4 kWh	0.0039 % to 0.3000%

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy single phase Active Cos Ø ± 0.1 to 1(50 Hz, 480 V to 1000 V, 1 mA to 20 A, Active)	Using PT and 3 phase reference by Comparison Method	0.048 Wh to 20 kWh	0.07 % to 0.52 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power single and three phase Cos Ø +/- 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 10 A to 100A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	2 W to 144 kW	0.0047 % to 0.4000 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power single and three phase Cos Ø +/- 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 100 A to 120 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	0.02 kW to 172.8 kW	0.0162 % to 1.600 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power single and three phase Cos Ø ± 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 10 mA to 10 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	2 mW to 14.4 kW	0.0039 % to 0.3000 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active power single and three phase Cos Ø ± 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 1 mA to 10 mA)	Using Precision 3 Phase reference by Direct Method/Comparison Method	0.2 mW to 14.4 W	0.0301 % to 3.0002 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power single phase Active Cos Ø ± 0.1 to 1, (50 Hz, 480 V to 1000 V, 1 mA to 20 A)	Using PT and 3 Phase reference by Comparison Method	0.048 W to 20 kW	0.07 % to 0.52 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40 Hz to 70 Hz, 20 V to 480 V, >10 A to 100 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	200 VAh to 144 kVAh	0.0062 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40 Hz to 70 Hz, 20 V to 480 V, 1 mA to 10 mA)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.02 VAh to 14.4 VAh	0.0425 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40 Hz to 70 Hz, 20 V to 480 V, 10 mA to 10 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.2 VAh to 14.4 kVAh	0.0050 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40 Hz to 70 Hz, 20 V to 480 V, 100 A to 120 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	2 kVAh to 172.8 kVAh	0.0228 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase (40 Hz to 70 Hz, 20 V to 480 V, 1 mA to 10 mA)	Using Precision 3 Phase reference by Direct Method/Comparison Method	20 mVA to 14.4 VA	0.0425 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase (40 Hz to 70 Hz, 20 V to 480 V, 10 mA to 10 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	200 mVA to 14.4 kVA	0.0050 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase (40 Hz to 70 Hz, 20 V to 480 V, 10 A to 100 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	200 VA to 144 kVA	0.0062 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase (40 Hz to 70 Hz, 20 V to 480 V, 100 A to 120 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	2 kVA to 172.8 kVA	0.0228 %
19	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	0.090 % to 0.236 %

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20	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	0.421% to 0.236%
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (40 Hz to 1 kHz)	Using 8 ½ DMM by Direct Method and Comparison Method	20 mA to 200 mA	0.298 % to 0.090 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (40 Hz to 1 kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	200 µA to 2 mA	0.139 % to 0.093 %
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	200 mA to 2 A	0.374 % to 0.167 %
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	0.0100 %

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25	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 %
26	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	0.004 %
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	1 mA to 20 mA	0.028 % to 0.006 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power single phase Active Cos Ø ± 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 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 10 A to 100 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	20 VArh to 144 kVArh	0.0047 % to 0.4000 %

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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 100 A to 120 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	200 VArh to 172.8 kVArh	0.0162 % to 1.6000 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, >10 mA to 10 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.02 VArh to 14.4 kVArh	0.0039 % to 0.3000 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 1 mA to 10 mA)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	2 mVArh to 14.4 kVArh	0.0301% to 3.0002 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy single phase, Reactive Sin Ø ± 0.1 to 1 (50 Hz, 480 V to 1000 V, 1 mA to 20 A, Reactive)	Using PT and 3 phase reference by Comparison Method	0.048 VArh to 20 kVArh	0.07 % to 0.52 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, >10 mA to 10 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	20 mVAr to 14.4 kVAr	0.0039 % to 0.3000 %

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35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, >100 A to 120 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	0.2 kVAr to 172.8 kVAr	0.0162 % to 1.6000 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 1 mA to 10 mA)	Using Precision 3 Phase reference by Direct Method/Comparison Method	2 mVAr to 14.4 VAr	0.0301 % to 3.0002 %
37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 10 A to 100 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	20 VAr to 144 kVAr	0.0047 % to 0.4000 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single phase, Reactive Sin Ø ± 0.1 to 1 (50 Hz, 480 V to 1000 V, 1 mA to 20 A)	Using PT and 3 Phase reference by Comparison Method	0.048 VAr to 20 kVAr	0.07 % to 0.52 %
39	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	1.248 % to 0.029 %

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40	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	0.020 % to 0.156 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (1 kHz to 100 kHz)	Using 8½ DMM By Direct Method and Comparison Method	10 mV to 100 V	0.020 % to 0.0696 %
42	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	0.056 % to 0.020 %
43	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 0.003 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (45 Hz to 1 kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	20 V to 200 V	0.051 % to 0.020 %

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45	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	0.051 % to 0.032 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz)	Using 3 phase reference & EMVT by Direct Method	480 V to 150 kV	0.10 %
47	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 0.023 %
48	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 %
49	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)	0.500 %

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50	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)	0.009 °
51	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	0.0001 PF
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 1 kHz)	Using calibrator by Direct Method	1 mA to 1 A	0.168 % to 0.018 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 1 kHz)	Using calibrator by Direct Method	1 A to 20 A	0.018 % to 0.239 %
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 1 kHz)	Using calibrator by Direct Method	1 V to 1000 V	0.049 % to 0.033 %

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55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45Hz to 1 KHz)	Using calibrator by Direct Method	1 mV to 1 V	1.289 % to 0.049 %
56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz)	Using 3 phase refrence & EMVT by Direct Method	480 V to 150 kV	0.10 %
57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source,Measure)	AC Current @ 50 Hz	Using precision CT setup & 3 Phase reference by Direct Method/Comparison Method	120 A to 2000 A	0.02 % to 0.06 %
58	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison method	1 µA to 10 µA	0.095 % to 0.012 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	10 µA to 10 mA	0.012 % to 0.004 %

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60	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 %
61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	10 mA to 100 mA	0.004 % to 0.013 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	100 mA to 2 A	0.013 % to 0.046 %
63	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	2 A to 10 A	0.046 % to 0.102 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM By Direct Method and Comparison Method	1 mV to 10 mV	0.026 % to 0.004 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM By Direct Method and Comparison Method	10 mV to 100 mV	0.004 % to 0.0016 %

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66	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 %
67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	10 ohm to 10 Mohm	0.0028 % to 0.008 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	100 Mohm to 220 Mohm	0.051 % to 1.400 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	220 Mohm to 1 Gohm	1.400 % to 0.585 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 8½ DMM By Direct Method	10 Mohm to 100 Mohm	0.008 % to 0.051 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 8½ DMM and Microohm meter by Direct Method	0.1 ohm to 1 ohm	0.014 % to 0.0049 %

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72	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 8½ DMM and Microohm meter by Direct Method	1 mohm to 100 mohm	1.163 % to 0.014 %
73	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 8½ DMM By Direct Method	1 ohm to 10 ohm	0.0049 % to 0.0028 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	1 A to 20 A	0.041 % to 0.114 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	1 mA to 100 mA	0.009 % to 0.013 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	100 mA to 1 A	0.013 % to 0.041 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using calibrator by Direct Method	1 mV to 100 mV	0.251 % to 0.003 %

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78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using calibrator by Direct Method	100 mV to 1000 V	0.003 % to 0.003 %
79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	>700 Mohm to 1 Gohm	0.678 % to 1.117 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Value Resistance by direct method	1 Tohm	2.645 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Value Resistance by direct method	10 Gohm	1.797 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	10 Mohm to 100 Mohm	0.012 % to 0.084 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	10 ohm to 10 Mohm	0.005 % to 0.012 %

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84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Value Resistance by direct method:	100 Gohm	2.055 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	100 Mohm to 700 Mohm	0.084 % to 0.678 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance box by Direct Method	0.1 ohm to 1 ohm	2.443 % to 0.577 %
87	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Shunt by Direct Method	1 mohm and to 10 mohm	1.17 % to 0.210 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance box by Direct Method	1 mohm to 100 mohm	1.17 % to 2.45 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using calibrator by Direct Method	1 ohm to 10 ohm	0.012 % to 0.005 %

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90	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Magnetic Field @50 Hz	Using Gauss Meter by Direct/comparison Method	0.5 Gauss to 2000 Gauss	4.22 % to 4.49 %
91	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance & Tan Delta Up to 12kV	Using Capacitance & Tan delta tester by Direct Method	100 pF to 1000 pF	1.25 %
92	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance & Tan delta Up to 12kV	Using Capacitance & Tan delta tester by Direct Method	5 % to 0.001 % (Tan delta)	1.0 %
93	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Current Phase error)	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	1 A, 5 A	0.39 minutes to 0.80 minutes
94	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Current Ratio error)	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	1 A, 5 A	0.007 % to 0.020

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95	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Voltage Phase error)	Using Automatic Instrument transformer test set & EMVT by Comparison Method	63.5 V, 110 V	0.50 min
96	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Voltage Ratio error)	Using Automatic Instrument transformer test set & EMVT by Comparison Method	63.5 V, 110 V	0.008 %
97	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)	1.43 min
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)	0.019 % to 0.027 %
99	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)	0.014 % to 0.032 %

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100	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)	1.45 minutes
101	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)	0.68 minutes to 1.45 minutes
102	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)	0.030 %
103	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 %
104	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection)-Phase Angle 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 minutes to 6.32 minutes

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105	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Magnetic Field	Using Gauss Meter by Direct/comparison Method	100 Gauss to 5000 Gauss	2.201 % to 2.257 %
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/110 V and 11/Sqrt(3) kV to 33 kV/Sqrt(3)/ 110 V/Sqrt	0.78 min to 0.89 min
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	132 kV to 220 kV (Primary), 50.8 V to 132 V (Secondary)	0.62 minutes
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)	0.78 minutes to 1.23 minutes
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/110 V and 11/Sqrt(3) kV to 33 kV/Sqrt(3)/ 110 V/Sqrt	0.015 %
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	132 kV to 220 kV (Primary), 50.8 V to 132 V (Secondary)	0.015 %

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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)	0.100 %
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/110 V and 33/Sqrt(3) kV to 132 kV/Sqrt(3)/ 110 V/Sqr	0.015 %
113	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/110 V and 33/Sqrt(3) kV to 132 kV/Sqrt(3)/ 110 V/Sqr	0.78 minutes
114	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/110V and 110/Sqrt(3) V to 2.2 kV/Sqrt(3)/ 110 V/Sqr	0.05 %
115	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)	0.039 % to 0.014 %
116	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/110V and 110/Sqrt(3) V to 2.2 kV/Sqrt(3)/ 110 V/Sqr	2.00 minutes

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117	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/110 V an 2.2/Sqrt(3) kV to 6.6 kV/Sqrt(3)/ 110 V/Sqr	2.73 minutes
118	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)	5.6 min
119	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 %
120	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Voltage Ratio	Using Ratio tester calibrator and Digital Multimeter by Comparison Method	1 Turn to 2000 Turn	2.41 %
121	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Timer Counter Analyzer by Direct/Comparison Method	1 Hz to 300 MHz	0.00072 % to 0.00046 %
122	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 %

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123	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Frequency Counter by Direct/Comparison Method	5 s to 10000 s	0.00155 s to 0.6 s
124	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	1 Hz to 2 MHz	0.003 %
125	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Signal generator by Direct Method	2 MHz to 300 MHz	0.001 %
126	FLUID FLOW-FLOW MEASURING DEVICES	Quantity by Volume (air)	Using Bell Prover at temperature (20 ± 1)°C & at pressure Atm +5mbar by Comparison method with reference standard	0.003 m^3 to 0.01 m^3 (Flow rate: 0.013 10 m^3/hr to 0.040 10 m^3/hr)	0.62 %
127	FLUID FLOW-FLOW MEASURING DEVICES	Quantity by Volume (air)	Using Bell Prover at temperature (20 ± 1)°C & at pressure Atm +5mbar by Comparison method with reference standard	0.01 m^3 to 0.08 m^3 (flow rate range: 0.040 m^3/hr to 6.6 m^3/hr)	0.17 %

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128	FLUID FLOW-FLOW MEASURING DEVICES	Volume - Flow rate (air)	Using automatic test bench Combical by comparison method with reference standard sonic noozle	0.1 m^3/hr to 2.0 m^3/hr	0.30 %
129	FLUID FLOW-FLOW MEASURING DEVICES	Volume -Flow Rate (air)	Using automatic test bench by comparison method with reference standard	Test bench ITF10: 0.016 m^3/hr to 10 m^3/hr; Test bench Combical: 2 m^3/hr to 2500 m^3/hr	0.30 %; 0.2 %
130	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate (air)	Using Bell Prover at temperature (20 ± 1)°C & at pressure Atm +5mbar by Comparison method with reference standard	0.040 m^3/hr to 6.6 m^3/hr (For collection volume range of 0.01 m^3 to 0.08 m^3)	0.17 %
131	FLUID FLOW-FLOW MEASURING DEVICES	Volume Flow Rate (air)	Using Bell Prover at temperature (20 ± 1)°C & at pressure Atm +5mbar by Comparison method with reference standard	0.013 m^3/hr to 0.040 m^3/hr (for collection volume range of 0.003 m^3 to 0.01 m^3)	0.63 %

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132	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 60 °C); 50 %rh to 98 %rh (at 70 °C)	3 %rh
133	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 60 °C); 50 %rh to 98 %rh (at 70 °C)	1.75 %rh
134	THERMAL-TEMPERATURE	Environmental chamber	Using RTD’s (Minimum 9) with Data Acquisition System, Multi point calibration by Direct Method	(-)40 °C to 100 °C	1 °C
135	THERMAL-TEMPERATURE	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

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136	THERMAL-TEMPERATURE	RTD	Using PRT (PT 25) with thermometer read out & liquid bath by Comparison method	(-)10 °C to 95 °C	0.03 °C
137	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
138	THERMAL-TEMPERATURE	Thermocouple	Using PRT (PT 25) with thermometer read out & liquid bath by Comparison method	(-)10 °C to 95 °C	0.14 °C
139	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 Energy single and three phase Cos Ø +/- 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 10 A to 100 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	2 Wh to 144 kWh	0.0047 % to 0.4000 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy single and three phase Cos Ø +/- 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 100 A to 120 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	20 Wh to 172.8 kWh	0.0162 % to 1.6000 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy single and three phase Cos Ø ± 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 1 mA to 10 mA)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.2 mWh to 14.4 Wh	0.0301 % to 3.0002 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy single and three phase Cos Ø ± 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 10 mA to 10 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.002 Wh to 14.4 kWh	0.0039 % to 0.3000%

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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power single and three phase Cos Ø +/- 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 10 A to 100A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	2 W to 144 kW	0.0047 % to 0.4000 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power single and three phase Cos Ø +/- 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 100 A to 120 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	0.02 kW to 172.8 kW	0.0162 % to 1.600 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Power single and three phase Cos Ø ± 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 10 mA to 10 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	2 mW to 14.4 kW	0.0039 % to 0.3000 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active power single and three phase Cos Ø ± 0.01 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 1 mA to 10 mA)	Using Precision 3 Phase reference by Direct Method/Comparison Method	0.2 mW to 14.4 W	0.0301 % to 3.0002 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40 Hz to 70 Hz, 20 V to 480 V, >10 A to 100 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	200 VAh to 144 kVAh	0.0062 %

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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40 Hz to 70 Hz, 20 V to 480 V, 1 mA to 10 mA)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.02 VAh to 14.4 VAh	0.0425 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40 Hz to 70 Hz, 20 V to 480 V, 10 mA to 10 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.2 VAh to 14.4 kVAh	0.0050 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single and three phase (40 Hz to 70 Hz, 20 V to 480 V, 100 A to 120 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	2 kVAh to 172.8 kVAh	0.0228 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase (40 Hz to 70 Hz, 20 V to 480 V, 1 mA to 10 mA)	Using Precision 3 Phase reference by Direct Method/Comparison Method	20 mVA to 14.4 VA	0.0425 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase (40 Hz to 70 Hz, 20 V to 480 V, 10 mA to 10 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	200 mVA to 14.4 kVA	0.0050 %

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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase (40 Hz to 70 Hz, 20 V to 480 V, 10 A to 100 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	200 VA to 144 kVA	0.0062 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single and three phase (40 Hz to 70 Hz, 20 V to 480 V, 100 A to 120 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	2 kVA to 172.8 kVA	0.0228 %
17	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	0.090 % to 0.236 %
18	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	0.421% to 0.236%
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (40 Hz to 1 kHz)	Using 8 ½ DMM by Direct Method and Comparison Method	20 mA to 200 mA	0.298 % to 0.090 %

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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (40 Hz to 1 kHz)	Using 8 ½ DMM By Direct Method and Comparison Method	200 µA to 2 mA	0.139 % to 0.093 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (40 Hz to 1 kHz)	Using 8 ½ DMM by Direct Method and Comparison Method	200 mA to 2 A	0.374 % to 0.167 %
22	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	0.0100 %
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 mA to 20 mA	0.300 % to 0.093 %
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	>20 mA to 100 A	0.004 %

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25	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	0.028 % to 0.006 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Power single phase Active Cos Ø ± 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 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 10 A to 100 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	20 VArh to 144 kVArh	0.0047 % to 0.4000 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 100 A to 120 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	200 VArh to 172.8 kVArh	0.0162 % to 1.6000 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, >10 mA to 10 A)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	0.02 VArh to 14.4 kVArh	0.0039 % to 0.3000 %

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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Energy single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 1 mA to 10 mA)	Using Precision 3 Phase reference by Direct Method/ Comparison Method	2 mVArh to 14.4 kVArh	0.0301% to 3.0002 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, >10 mA to 10 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	20 mVAr to 14.4 kVAr	0.0039 % to 0.3000 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, >100 A to 120 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	0.2 kVAr to 172.8 kVAr	0.0162 % to 1.6000 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 1 mA to 10 mA)	Using Precision 3 Phase reference by Direct Method/Comparison Method	2 mVAr to 14.4 VAr	0.0301 % to 3.0002 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single and three phase Sin Ø ± 0.1 to 1 (40 Hz to 70 Hz, 20 V to 480 V, 10 A to 100 A)	Using Precision 3 Phase reference by Direct Method/Comparison Method	20 VAr to 144 kVAr	0.0047 % to 0.4000 %

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35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Reactive Power single phase, Reactive Sin Ø ± 0.1 to 1 (50 Hz, 480 V to 1000 V, 1 mA to 20 A)	Using PT and 3 Phase reference by Comparison Method	0.048 VAr to 20 kVAr	0.07 % to 0.52 %
36	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	1.248 % to 0.029 %
37	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	0.020 % to 0.156 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (1 kHz to 100 kHz)	Using 8½ DMM By Direct Method and Comparison Method	10 mV to 100 V	0.020 % to 0.0696 %
39	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	0.056 % to 0.020 %

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40	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 0.003 %
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	20 V to 200 V	0.051 % to 0.020 %
42	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	0.051 % to 0.032 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (50 Hz)	Using 3 phase reference & EMVT by Direct Method	480 V to 150 kV	0.10 %
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 0.023 %

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45	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 %
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 V to 240 V)	0.500 %
47	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)	0.009 °
48	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	0.0001 PF
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 1 kHz)	Using calibrator by Direct Method	1 mA to 1 A	0.168 % to 0.018 %

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50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 1 kHz)	Using calibrator by Direct Method	1 A to 20 A	0.018 % to 0.239 %
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45 Hz to 1 kHz)	Using calibrator by Direct Method	1 V to 1000 V	0.049 % to 0.033 %
52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (45Hz to 1 KHz)	Using calibrator by Direct Method	1 mV to 1 V	1.289 % to 0.049 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (50 Hz)	Using 3 phase refrence & EMVT by Direct Method	480 V to 150 kV	0.10 %
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source,Measure)	AC Current @ 50 Hz	Using precision CT setup & 3 Phase reference by Direct Method/Comparison Method	120 A to 2000 A	0.02 % to 0.06 %

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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 0.012 %
56	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	10 µA to 10 mA	0.012 % to 0.004 %
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	0.004 % to 0.013 %
59	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	100 mA to 2 A	0.013 % to 0.046 %
60	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8½ DMM By Direct Method and Comparison Method	2 A to 10 A	0.046 % to 0.102 %

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61	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM By Direct Method and Comparison Method	1 mV to 10 mV	0.026 % to 0.004 %
62	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8½ DMM By Direct Method and Comparison Method	10 mV to 100 mV	0.004 % to 0.0016 %
63	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 %
64	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	10 ohm to 10 Mohm	0.0028 % to 0.008 %
65	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	100 Mohm to 220 Mohm	0.051 % to 1.400 %
66	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance	Using 8½ DMM By Direct Method	220 Mohm to 1 Gohm	1.400 % to 0.585 %

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67	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 8½ DMM By Direct Method	10 Mohm to 100 Mohm	0.008 % to 0.051 %
68	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 8½ DMM and Microohm meter by Direct Method	0.1 ohm to 1 ohm	0.014 % to 0.0049 %
69	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 8½ DMM and Microohm meter by Direct Method	1 mohm to 100 mohm	1.163 % to 0.014 %
70	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 8½ DMM By Direct Method	1 ohm to 10 ohm	0.0049 % to 0.0028 %
71	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	1 A to 20 A	0.041 % to 0.114 %
72	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	1 mA to 100 mA	0.009 % to 0.013 %

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73	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	100 mA to 1 A	0.013 % to 0.041 %
74	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using calibrator by Direct Method	1 mV to 100 mV	0.251 % to 0.003 %
75	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using calibrator by Direct Method	100 mV to 1000 V	0.003 % to 0.003 %
76	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	>700 Mohm to 1 Gohm	0.678 % to 1.117 %
77	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Value Resistance by direct method	1 Tohm	2.645 %
78	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Value Resistance by direct method	10 Gohm	1.797 %

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79	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	10 Mohm to 100 Mohm	0.012 % to 0.084 %
80	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	10 ohm to 10 Mohm	0.005 % to 0.012 %
81	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using Fixed Value Resistance by direct method:	100 Gohm	2.055 %
82	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance	Using calibrator by Direct Method	100 Mohm to 700 Mohm	0.084 % to 0.678 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance box by Direct Method	1 mohm to 100 mohm	1.17 % to 2.45 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using calibrator by Direct Method	1 ohm to 10 ohm	0.012 % to 0.005 %

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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)(±)
85	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Magnetic Field @50 Hz	Using Gauss Meter by Direct/comparison Method	0.5 Gauss to 2000 Gauss	4.22 % to 4.49 %
86	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance & Tan Delta Up to 12kV	Using Capacitance & Tan delta tester by Direct Method	100 pF to 1000 pF	1.25 %
87	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance & Tan delta Up to 12kV	Using Capacitance & Tan delta tester by Direct Method	5 % to 0.001 % (Tan delta)	1.0 %
88	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Current Phase error)	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	1 A, 5 A	0.39 minutes to 0.80 minutes
89	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Current Ratio error)	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	1 A, 5 A	0.007 % to 0.020

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90	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Voltage Phase error)	Using Automatic Instrument transformer test set & EMVT by Comparison Method	63.5 V, 110 V	0.50 min
91	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Voltage Ratio error)	Using Automatic Instrument transformer test set & EMVT by Comparison Method	63.5 V, 110 V	0.008 %
92	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)	1.43 min
93	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)	0.019 % to 0.027 %
94	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)	0.014 % to 0.032 %

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95	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)	1.45 minutes
96	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)	0.68 minutes to 1.45 minutes
97	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)	0.030 %
98	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 %
99	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection)-Phase Angle 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 minutes to 6.32 minutes

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100	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/110 V and 11/Sqrt(3) kV to 33 kV/Sqrt(3)/ 110 V/Sqrt	0.78 min to 0.89 min
101	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor Voltage Transformer / Voltage Divider (Phase Error)	Using Automatic Instrument transformer test set & EMVT by Comparison Method	132 kV to 220 kV (Primary), 50.8 V to 132 V (Secondary)	0.62 minutes
102	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)	0.78 minutes to 1.23 minutes
103	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/110 V and 11/Sqrt(3) kV to 33 kV/Sqrt(3)/ 110 V/Sqrt	0.015 %
104	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer / Capacitor Voltage Transformer / Voltage Divider (Ratio Error)	Using Automatic Instrument transformer test set & EMVT by Comparison Method	132 kV to 220 kV (Primary), 50.8 V to 132 V (Secondary)	0.015 %
105	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)	0.100 %

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106	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/110 V and 33/Sqrt(3) kV to 132 kV/Sqrt(3)/ 110 V/Sqr	0.015 %
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/110 V and 33/Sqrt(3) kV to 132 kV/Sqrt(3)/ 110 V/Sqr	0.78 minutes
108	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/110V and 110/Sqrt(3) V to 2.2 kV/Sqrt(3)/ 110 V/Sqr	0.05 %
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	6.6 kV to 11 kV (Primary) 50.8 V to 132 V (Secondary)	0.039 % to 0.014 %
110	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/110V and 110/Sqrt(3) V to 2.2 kV/Sqrt(3)/ 110 V/Sqr	2.00 minutes
111	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/110 V an 2.2/Sqrt(3) kV to 6.6 kV/Sqrt(3)/ 110 V/Sqr	2.73 minutes

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112	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)	5.6 min
113	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 %
114	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Voltage Ratio	Using Ratio tester calibrator and Digital Multimeter by Comparison Method	1 Turn to 2000 Turn	2.41 %
115	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Timer Counter Analyzer by Direct/Comparison Method	1 Hz to 300 MHz	0.00072 % to 0.00046 %
116	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 %
117	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	1 Hz to 2 MHz	0.003 %

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118	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Signal generator by Direct Method	2 MHz to 300 MHz	0.001 %
119	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 60 °C); 50 %rh to 98 %rh (at 70 °C)	3 %rh
120	THERMAL-TEMPERATURE	Environmental chamber	Using RTD's (Minimum 9) with Data Acquisition System, Multi point calibration by Direct Method	(-)40 °C to 100 °C	1 °C
121	THERMAL-TEMPERATURE	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

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