



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: NABLC0626RJ04810 (In lieu of CC-2735)

Issue Date: 09/06/2026

Valid Until: 08/06/2030

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 Entity: YADAV MEASUREMENTS PRIVATE LIMITED

Signed for and on behalf of NABL



Anita Rani
Director

Dr. Ramanand N. Shukla
Chief Executive Officer



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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 (3 Phase 4 Wire / 3 Phase 3 Wire) @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.01 PF to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 75 Wh to 172.8 kWh	0.0162 % to 1.6 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Active Energy @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.01 PF to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	0.75 mWh to 14.4 Wh	0.0301 % to 3.0002 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.01 PF to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 7.5 W to 144 kW	0.0047 % to 0.4 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.01 PF to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 7.5 mW to 14.4 kW	0.0039 % to 0.4 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.01 PF to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 75 W to 172.8 kW	0.0162 % to 1.6 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.01 PF to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	0.75 mW to 14.4 W	0.0301 % to 3.0009 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.1 PF to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 75 VARh to 144 kVARh	0.0047 % to 0.0401 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.1 PF to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 0.075 VARh to 14.4 kVARh	0.0039 % to 0.0402 %



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9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 750 VARh to 172.8 kVARh	0.0162 % to 0.16 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	7.5 mVARh to 14.4 kVARh	0.0301% to 0.3019 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 75 VAR to 144 kVAR	0.0401 % to 0.0047 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 75 mVAR to 14.4 kVAR	0.0039 % to 0.0443 %



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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 0.75 kVAr to 172.8 kVAr	0.0162 % to 0.16 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	7.5 mVAr to 14.4 VAr	0.0302 % to 0.3085 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy (3 Phase 4 Wire / 3 Phase 3 Wire) @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.01 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 7.5 Wh to 144 kWh	0.0047 % to 0.4 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy (3 Phase 4 Wire / 3 Phase 3 Wire) @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.01 PF to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 7.5 mWh to 14.4 kWh	0.0039 % to 0.4 %



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17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single phase (40 Hz to 70 Hz, 25 V to 480 V, > 10 A to 100 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 250 VAh to 48 kVAh	0.0062 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single phase (40 Hz to 70 Hz, 25 V to 480 V, > 10 mA to 10 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 0.25 VAh to 4.8 kVAh	0.0050 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single phase (40 Hz to 70 Hz, 25 V to 480 V, > 100 A to 120 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 2.5 kVAh to 57.6 kVAh	0.0228 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single phase (40 Hz to 70 Hz, 25 V to 480 V, 1 mA to 10 mA)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	0.025 VAh to 4.8 VAh	0.0425 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy three phase (40 Hz to 70 Hz, 25 V to 480 V, > 10 A to 100 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 750 VAh to 144 kVAh	0.0062 %



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22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy three phase (40 Hz to 70 Hz, 25 V to 480 V, > 10 mA to 10 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 0.75 VAh to 14.4 kVAh	0.0050 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy three phase (40 Hz to 70 Hz, 25 V to 480 V, > 100 A to 120 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 75 kVAh to 172.8 kVAh	0.0228 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy three phase (40 Hz to 70 Hz, 25 V to 480 V, 1 mA to 10 mA)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	0.075 VAh to 14.4 VAh	0.0425 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single phase (40 Hz to 70 Hz, 25 V to 480 V, > 10 A to 100 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 250 VA to 48 kVA	0.0062 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single phase (40 Hz to 70 Hz, 25 V to 480 V, > 100 A to 120 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 2.5 kVA to 57.6 kVA	0.0228 %



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27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single phase(40 Hz to 70 Hz, 25 V to 480 V, > 10 mA to 10 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 250 mVA to 4.8 kVA	0.0050 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single phase(40 Hz to 70 Hz, 25 V to 480 V, 1 mA to 10mA)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	2.5 mVA to 4.8 VA	0.0425 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power three phase (40 Hz to 70 Hz, 25 V to 480 V, > 10 A to 100 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 750 VA to 144 kVA	0.0062 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power three phase (40 Hz to 70 Hz, 25 V to 480 V, > 10 mA to 10 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 750 mVA to 14.4 kVA	0.005 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power three phase (40 Hz to 70 Hz, 25 V to 480 V, > 100 A to 120 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 7.5 kVA to 172.8 kVA	0.0228 %



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32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power three phase (40 Hz to 70 Hz, 25 V to 480 V, 1 mA to 10 mA)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	7.5 mVA to 14.4 VA	0.0425 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to to 10 kHz	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	100 µA to 100 mA	0.065 % to 0.132 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to to 10 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	100 mA to 1 A	0.132 % to 0.151 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to to 5 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	1 A to 10 A	0.151 % to 0.206 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	1 A to 10 A	0.093 % to 0.206 %



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37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	10 A to 20 A	0.206 % to 0.333 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	100 µA to 100 mA	0.079 % to 0.077 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	100 mA to 1 A	0.077 % to 0.093 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 70 Hz	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	1 mA to 20 mA	0.0280 % to 0.0060 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 70 Hz	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	100 A to 120 A	0.0042 % to 0.0110 %



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42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 70 Hz	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	20 mA to 100 A	0.0060 % to 0.0042 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Precision CT Setup, High Current Source & 3 Phase Reference by Direct Method/Comparison Method	120 A to 3200 A	0.03 % to 0.06 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	1 mV to 100 mV	0.386 % to 0.022 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 10 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	100 V to 1000 V	0.020 % to 0.160 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 100 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	> 10 mV to 100 mV	0.095 % to 0.135 %



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47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 100 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	> 10 V to 100 V	0.025 % to 0.149 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 100 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	> 100 mV to 10 V	0.024 % to 0.124 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 100 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	1 mV to 10 mV	0.384 % to 0.947 %
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 100 kHz to 300 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	> 10 mV to 100 mV	0.947 % to 0.558 %
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 100 kHz to 300 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	1 mV to 10 mV	1.183 % to 2.403 %



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52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	10 V to 30 V	0.019 % to 0.026 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	100 mV to 10 V	0.022 % to 0.019 %
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40 Hz to 70 Hz	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	10 V to 480 V	0.006 % to 0.003 %
55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	10 V to 100 V	0.036 %
56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	100 V to 1000 V	0.036 % to 0.032 %



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57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 3 Phase Reference Standard With Voltage Transformer & High Voltage Source By Direct Method/ Comparison Method	480 V to 150 kV	0.10 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Distortion Factor (10 mA to 100 A), Fundamental Frequency: 50 Hz	Using 3 Phase Energy Reference Standard With Meter Test System By Direct Method/ Comparison Method	2nd to 40th (Harmonic)	0.5 % to 0.509 %
59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion (10 mA to 100 A), Fundamental Frequency: 50 Hz	Using 3 Phase Energy Reference Standard With Meter Test System By Direct Method/ Comparison Method	2nd to 40th (Harmonic)	0.5 % to 0.509 %
60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor (10 V to 240 V, Fundamental Frequency: 50 Hz)	Using 3 Phase Energy Reference Standard with meter test System by Direct Method/ Comparison Method	2nd to 40th (Harmonic)	0.5 %
61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Phase Angle (40 Hz to 70 Hz, 25 V to 480 V, 1 mA to 120 A)	Using 3 Phase Energy Reference Standard With Meter Test System By Direct Method/ Comparison Method	0° to 360°	0.009°



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62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 40 Hz to 70 Hz (25 V to 480 V, 1 mA to 120 A)	Using 3 Phase Energy Reference Standard with Meter Test System By Direct Method/ Comparison Method	0.01 PF to 1 PF (Lag/Lead)	0.0001 PF
63	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 2.5 Wh to 48 kWh	0.0047 % to 0.4 %
64	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 2.5 mWh to 4.8 kWh	0.0039 % to 0.4 %
65	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 25 Wh to 57.6 kWh	0.0162 % to 1.6 %
66	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Energy @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	0.25 mWh to 4.8 Wh	0.0301 % to 3.0002 %



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67	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 2.5 W to 48 kW	0.0047 % to 0.4 %
68	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 2.5 mW to 4.8 kW	0.0039 % to 0.4 %
69	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 25 W to 57.6 kW	0.0162 % to 1.6 %
70	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	0.25 mW to 4.8 W	0.0301 % to 3.0009 %
71	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 25 VARh to 48 kVARh	0.0047 % to 0.0401 %



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72	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 0.025 VARh to 4.8 kVARh	0.0039 % to 0.0402 %
73	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 250 VARh to 57.6 kVARh	0.0162 % to 0.16 %
74	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	2.5 mVARh to 4.8 VARh	0.3019 % to 0.0301 %
75	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 25 VAR to 48 kVAR	0.0401 % to 0.0047 %
76	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 25 mVAR to 4.8 kVAR	0.0039 % to 0.0443 %



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77	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 0.25 kVAr to 57.6 kVAr	0.0162 % to 0.16 %
78	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	2.5 mVAr to 4.8 VAR	0.3085 % to 0.0301 %
79	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Calibrator By Direct Method	1 A to 20 A	0.019 % to 0.239 %
80	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 0.019 %
81	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz to 60 Hz	Using Power Quality Calibrator By Direct Method	100 mA to 10 A	0.2 % to 0.08 %



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82	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Calibrator By Direct Method	1 mV to 1 V	1.289 % to 0.024 %
83	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Calibrator By Direct Method	1 V to 1000 V	0.024 % to 0.033 %
84	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz to 60 Hz	Using Power Quality Calibrator By Direct Method	5.77 V to 300 V	0.4 % to 0.07 %
85	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Current Harmonics, Current Inter-harmonics (0.1 % to 60 %, Fundamental 50 Hz to 60 Hz, 1 A to 5 A)	Using Power Quality Calibrator By Direct Method	2nd to 50th order	1.2 %
86	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Current Unbalance (0 % to 18.1 %, 50 Hz to 60 Hz)	Using Power Quality Calibrator By Direct Method	1 A to 5 A	0.09 %



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87	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Flicker/Voltage Fluctuations, Sinusoidal / Rectangular modulation (40 Hz to 60 Hz, 1 CPM to 4800 CPM, 0.2 Pst, 10 Pst & Pinst)	Using Power Quality Calibrator By Direct Method	120 V to 240 V	0.33 % to 0.5 %
88	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Total Harmonic Distortion (0.1 % to 16 %, Fundamental 50 Hz to 60 Hz, 57.7 V to 240 V)	Using Power Quality Calibrator By Direct Method	2nd to 50th order	1.2 %
89	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Total Harmonic Distortion (0.1 % to 60 %, Fundamental 50 Hz to 60 Hz, 1 A to 5 A)	Using Power Quality Calibrator By Direct Method	2nd to 50th order	1.2 %
90	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Voltage Harmonics, Voltage Inter-harmonics/ Mains Signalling in Voltage (0.1 % to 16 %, Fundamental 50 Hz to 60 Hz, 57.7 V to 240 V)	Using Power Quality Calibrator By Direct Method	2nd to 50th order	1.2 %
91	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Voltage Interruption, Dips and Swell (0 % to 200 %, 50 Hz to 60 Hz)	Using Power Quality Calibrator By Direct Method	57.7 V to 240 V	0.4 % to 0.07 %



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92	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	Voltage Unbalance (0 % to 5.2 %, 50 Hz to 60 Hz)	Using Power Quality Calibrator By Direct Method	57.7 V to 240 V	0.4 % to 0.09 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	> 10 µA to 1 mA	0.016 % to 0.003 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>1 A to 10 A	0.103 % to 0.064 %
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>1 mA to 10 mA	0.013 % to 0.004 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>10 A to 20 A	0.219 % to 0.178 %



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97	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>10 mA to 100 mA	0.034 % to 0.083 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>100 mA to 1 A	0.083 % to 0.054 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	1 µA to 10 µA	0.103 % to 0.016 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>1 mV to 100 mV	0.064 % to 0.0024 %
101	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>10 V to 100 V	0.0023 % to 0.0017 %



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102	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>100 V to 1000 V	0.0017 % to 0.0019 %
103	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>100 mV to 10 V	0.0024 % to 0.0007 %
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 8½ DMM By Direct Method	10 Mohm to 100 Mohm	0.008 % to 0.051 %
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 8 ½ Reference Multimeter By Direct Method	100 Mohm to 1 Gohm	0.051 % to 0.541 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire/4 Wire)	Using 8 ½ Reference Multimeter By Direct Method	>100 ohm to 10 Mohm	0.0026 % to 0.008 %



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107	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 8½ DMM by Direct Method	0.1 ohm to 1 ohm	0.014 % to 0.0049 %
108	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using Micro Ohm Meter By Direct Method	1 mohm to 100 mohm	1.164 % to 0.014 %
109	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 8½ DMM By Direct Method	1 ohm to 10 ohm	0.0049 % to 0.0028 %
110	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 8 ½ Reference Multimeter By Direct Method	10 ohm to 100 ohm	0.0028 % to 0.0023 %
111	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	1 A to 20 A	0.041 % to 0.114 %
112	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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113	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	100 mA to 1 A	0.013 % to 0.041 %
114	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Shunt by Direct Method	10 mohm	0.197 %
115	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using calibrator by Direct Method	1 mV to 100 mV	0.251 % to 0.003 %
116	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Calibrator By Direct Method	100 mV to 1000 V	0.003 %
117	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Multi Product calibrator by Direct Method	>700 Mohm to 1 Gohm	0.659 % to 1.117 %
118	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Fixed Value Resistance by direct method	1 Tohm	2.645 %



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119	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Multi Product calibrator by Direct Method	10 Mohm to 100 Mohm	0.012 % to 0.084 %
120	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using calibrator by Direct Method	100 Mohm to 700 Mohm	0.084 % to 0.659 %
121	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire) @ 1000 V to 5000 V	Using Fixed Value Resistance Dy Direct Method	10 Gohm	0.39 %
122	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire) @ 1000 V to 5000 V	Using Fixed Value Resistance By Direct Method	100 Gohm	2.53 %
123	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire/4 Wire)	Using Multi Product calibrator by Direct Method	10 ohm to 10 Mohm	0.005 % to 0.012 %
124	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance box by Direct Method	0.1 ohm to 1 ohm	2.310 % to 0.580 %



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125	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Shunt by Direct Method	1 mohm	1.17 %
126	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance box by Direct Method	1 mohm to 100 mohm	1.17 % to 2.310 %
127	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using calibrator by Direct Method	1 ohm to 10 ohm	0.012 % to 0.005 %
128	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Magnetic Field @50 Hz / Gauss Meter, Permanent Magnet, Electro Magnet	Using Gauss Meter, Permanent Magnet, Electro Magnet By Direct/Comparison Method	0.5 Gauss to 2000 Gauss	4.34 % to 4.49 %
129	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance & Tan delta Up to 12 kV	Using Capacitance & Tan delta tester by Direct Method	10 % to 0.001 % (Tan delta)	1.0 %
130	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance & Tan Delta Up to 12 kV	Using Capacitance & Tan delta tester by Direct Method	50 pF to 7100 pF	1.25 %



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131	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Current Phase error) (50 Hz, 1 % to 120 %)	Using Precision current transformer & Automatic Instrument Transformer Test Set by Comparison Method	1 A to 5 A	0.30 minute to 0.80 minute
132	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Current Ratio error) (50 Hz, 1 % to 120 %)	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	1 A to 5 A	0.007 % to 0.020 %
133	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Voltage Phase error) (50 Hz, 80 % to 120 %)	Using Automatic Instrument Transformer Test Set & EMVT by Comparison Method	63.5 V, 110 V	0.50 minute
134	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Voltage Ratio error) (50 Hz, 80 % to 120 %)	Using Automatic Instrument Transformer Test Set & EMVT by Comparison Method	63.5 V, 110 V	0.008 %
135	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)	1.22 minute to 1.45 minute



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136	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 %
137	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 3200 A (Primary), 1 A & 5 A (Secondary)	0.012 % to 0.034 %
138	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection)-Phase Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	3200 A to 10000 A (Primary), 1 A & 5 A (Secondary)	0.55 minute to 1.45 minute
139	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 3200 A (Primary), 1 A & 5 A (Secondary)	0.55 minute to 1.45 minute



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140	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection)-Ratio Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	3200 A to 10000 A (Primary), 1 A & 5 A (Secondary)	0.021 % to 0.038 %
141	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 %
142	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection) Ratio Error	Using Portable CT/VT Calibrator By Direct Method	5 A (Primary) to 5 A (Secondary)	0.10 %
143	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)	2.80 minute to 6.32 minute
144	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection)-Phase Angle Error	Using Portable CT/VT Calibrator By Direct Method	5 A (Primary) to 5 A (Secondary)	2.80 minute to 6.32 minute



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145	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Magnetic Field / Gauss Meter, Permanent Magnet, Electro Magnet	Using Gauss Meter and Electro Magnet By Direct / Comparison Method	100 Gauss to 5000 Gauss	2.201 % to 2.252 %
146	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 (Primary) / 50.8 V to 132 V (Secondary) to >33/Sqrt(3) kV to 220/Sqrt(3) kV (Primary), 50.8 V to 76.2 V (Secondary)	0.015 %
147	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 33 kV (Primary), 50.8 V to 132 V (Secondary)	0.025 % to 0.015 %
148	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	>33 kV (Primary) / 50.8 V to 132 V (Secondary) to >33/Sqrt(3) kV to 220/Sqrt(3) kV (Primary), 50.8 V to 76.2 V (Secondary)	0.62 minute
149	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)	0.050 %



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150	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)	2 minute
151	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 33 kV(Primary), 50.8 V to 132 V (Secondary)	1 minute to 0.62 minute
152	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	5.60 minute
153	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	0.15 %
154	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Timer Counter Analyzer by Direct Method	1 Hz to 300 MHz	0.00012 % to 0.00001 %
155	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Timer Counter Analyzer With Signal Generator By Direct/Comparison Method	2 MHz to 300 MHz	0.00001 %



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156	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	40 Hz to 70 Hz	0.0004 %
157	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Frequency Counter With Multi Product Calibrator By Direct/Comparison Method	5 s to 10000 s	0.00155 s to 0.6 s
158	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	1 Hz to 2 MHz	0.003 %
159	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Calibrator By Direct Method	40 Hz to 70 Hz	0.014 % to 0.008 %



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160	FLUID FLOW-FLOW MEASURING DEVICES	Electronic Volume Conversion Device - Gas Flow Meter {Conversion Factor: 0.4 to 52, Temperature Range: (-) 30 °C to 70 °C, Pressure Range: 0.9 bar (abs) to 30 bar (abs)}	Using Volume Conversion Device Test Bench, Pressure Controller, Temperature Sensor with Indicator, Temperature Bath as per EN-12405-1: 2021	0.016 m ³ /hr to 2500 m ³ /hr	0.19 %
161	FLUID FLOW-FLOW MEASURING DEVICES	Quantity by Volume Flow (air) at Temperature (20 ± 1)°C & at Pressure Atm + 5 mbar	Using Bell Prover By Comparison Method	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 %
162	FLUID FLOW-FLOW MEASURING DEVICES	Quantity by Volume Flow (air), at Temperature (20 ± 1)°C & at Pressure Atm + 5 mbar	Using Bell Prover By Comparison Method	0.003 m ³ to 0.08 m ³ (flow rate range: 0.013 m ³ /hr to 0.040 m ³ /hr)	0.60 %
163	FLUID FLOW-FLOW MEASURING DEVICES	Volume - Flow Rate (air)	Using Automatic Test Bench With Sonic Nozzle By Comparison Method	0.1 m ³ /h to 2.0 m ³ /h	0.30 %
164	FLUID FLOW-FLOW MEASURING DEVICES	Volume -Flow Rate (air)	Using Automatic Test Bench Sonic Nozzle By Comparison Method	0.016 m ³ /h to 10 m ³ /h	0.30 %



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165	FLUID FLOW-FLOW MEASURING DEVICES	Volume -Flow Rate(air)	Using Automatic Test Bench turbine gas meter By Comparison Method	2 m ³ /h to 2500 m ³ /h	0.20 %
166	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate(air) at temperature (20 ± 1)°C & at pressure Atm (+) 5 mbar	Using Bell Prover By Comparison Method	0.013 m ³ /hr to 0.040 m ³ /hr (for collection volume range: 0.003 m ³ to 0.08 m ³)	0.60 %
167	FLUID FLOW-FLOW MEASURING DEVICES	Volume flow rate(air) at temperature (20 ± 1)°C & at pressure Atm (+) 5 mbar	Using Bell Prover By Comparison Method	0.040 m ³ /hr to 6.6 m ³ /hr (For collection volume range: 0.01 m ³ to 0.08 m ³)	0.17 %
168	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge (Digital / Analogue), Pressure Transmitter / Transducer with and without Display Unit, Pressure Recorder, Differential Pressure Gauge	Using Pressure Controller and Digital Multi-meter By Comparison Method DKD-R 6-1	0 to 70 bar	0.012 bar
169	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure Gauge, Pressure Transmitter / Transducer with Indicator / Digital Output	Using Pressure Controller and Digital Multi-meter By Comparison Method as per DKD-R 6-1	0.8 bar (abs) to 1.1 bar (abs)	1.0 mbar



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170	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental Chamber (Multi Position)	Using Minimum Nine Temperature and Humidity Sensors with Data Logger by Multi-position Calibration Method	20 % RH to 98 % RH @ 20 °C to 70 °C	2.1 % RH
171	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Indicator With Sensor	Using Temperature & Humidity Sensor With Environmental Chamber by Comparison Method	20 % RH to 98 % RH @ 20 °C to 70 °C	1.75 % RH
172	THERMAL-TEMPERATURE	Environmental Chamber (Multi Position)	Using Minimum Nine RTD's With Data Acquisition System By Multi-position Calibration Method	(-) 40 °C to 100 °C	1 °C
173	THERMAL-TEMPERATURE	Environmental Chamber (Multi Position)	Using Minimum Nine RTD's with Data Acquisition System by Multiposition Calibration Method	100 °C to 150 °C	1.4 °C
174	THERMAL-TEMPERATURE	RTD / Thermocouple with Temperature Indicator / Controller / Recorder, Temperature Transmitter, Temperature Indicator with Digital Output	Using PRT (PT 25) with Thermometer Read Out, Digital Multimeter & Dry Block Bath By Comparison Method	(-) 30 °C to 150 °C	0.032 °C



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175	THERMAL-TEMPERATURE	RTD With Indicator	Using PRT (PT 25) With Thermometer Read Out & Liquid Bath By Comparison Method	(-) 10 °C to 95 °C	0.04 °C
176	THERMAL-TEMPERATURE	Thermocouple with Indicator	Using PRT (PT 25) With Thermometer Read Out & Liquid Bath By Comparison Method	(-) 10 °C to 95 °C	0.14 °C
177	THERMAL-TEMPERATURE	Thermometer with Readout (Inbuilt/External Sensor)	Using SPRT with Readout Device & 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 (3 Phase 4 Wire / 3 Phase 3 Wire) @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.01 PF to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 75 Wh to 172.8 kWh	0.0162 % to 1.6 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Active Energy @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.01 PF to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	0.75 mWh to 14.4 Wh	0.0301 % to 3.0002 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.01 PF to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 7.5 W to 144 kW	0.0047 % to 0.4 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.01 PF to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 7.5 mW to 14.4 kW	0.0039 % to 0.4 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.01 PF to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 75 W to 172.8 kW	0.0162 % to 1.6 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.01 PF to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	0.75 mW to 14.4 W	0.0301 % to 3.0009 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.1 PF to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 75 VARh to 144 kVARh	0.0047 % to 0.0401 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.1 PF to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 0.075 VARh to 14.4 kVARh	0.0039 % to 0.0402 %



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9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 750 VARh to 172.8 kVARh	0.0162 % to 0.16 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	7.5 mVARh to 14.4 kVARh	0.0301% to 0.3019 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 75 VAR to 144 kVAR	0.0401 % to 0.0047 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 75 mVAR to 14.4 kVAR	0.0039 % to 0.0443 %



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13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 0.75 kVAr to 172.8 kVAr	0.0162 % to 0.16 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	3 Phase 4 Wire / 3 Phase 3 Wire AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	7.5 mVAr to 14.4 VAr	0.0302 % to 0.3085 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy (3 Phase 4 Wire / 3 Phase 3 Wire) @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.01 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 7.5 Wh to 144 kWh	0.0047 % to 0.4 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Active Energy (3 Phase 4 Wire / 3 Phase 3 Wire) @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.01 PF to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 7.5 mWh to 14.4 kWh	0.0039 % to 0.4 %



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17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single phase (40 Hz to 70 Hz, 25 V to 480 V, > 10 A to 100 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 250 VAh to 48 kVAh	0.0062 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single phase (40 Hz to 70 Hz, 25 V to 480 V, > 10 mA to 10 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 0.25 VAh to 4.8 kVAh	0.0050 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single phase (40 Hz to 70 Hz, 25 V to 480 V, > 100 A to 120 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 2.5 kVAh to 57.6 kVAh	0.0228 %
20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy single phase (40 Hz to 70 Hz, 25 V to 480 V, 1 mA to 10 mA)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	0.025 VAh to 4.8 VAh	0.0425 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy three phase (40 Hz to 70 Hz, 25 V to 480 V, > 10 A to 100 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 750 VAh to 144 kVAh	0.0062 %



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22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy three phase (40 Hz to 70 Hz, 25 V to 480 V, > 10 mA to 10 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 0.75 VAh to 14.4 kVAh	0.0050 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy three phase (40 Hz to 70 Hz, 25 V to 480 V, > 100 A to 120 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 75 kVAh to 172.8 kVAh	0.0228 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Energy three phase (40 Hz to 70 Hz, 25 V to 480 V, 1 mA to 10 mA)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	0.075 VAh to 14.4 VAh	0.0425 %
25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single phase (40 Hz to 70 Hz, 25 V to 480 V, > 10 A to 100 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 250 VA to 48 kVA	0.0062 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single phase (40 Hz to 70 Hz, 25 V to 480 V, > 100 A to 120 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 2.5 kVA to 57.6 kVA	0.0228 %



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27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single phase(40 Hz to 70 Hz, 25 V to 480 V, > 10 mA to 10 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 250 mVA to 4.8 kVA	0.0050 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power single phase(40 Hz to 70 Hz, 25 V to 480 V, 1 mA to 10mA)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	2.5 mVA to 4.8 VA	0.0425 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power three phase (40 Hz to 70 Hz, 25 V to 480 V, > 10 A to 100 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 750 VA to 144 kVA	0.0062 %
30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power three phase (40 Hz to 70 Hz, 25 V to 480 V, > 10 mA to 10 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 750 mVA to 14.4 kVA	0.005 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power three phase (40 Hz to 70 Hz, 25 V to 480 V, > 100 A to 120 A)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	> 7.5 kVA to 172.8 kVA	0.0228 %



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32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Apparent Power three phase (40 Hz to 70 Hz, 25 V to 480 V, 1 mA to 10 mA)	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	7.5 mVA to 14.4 VA	0.0425 %
33	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to to 10 kHz	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	100 µA to 100 mA	0.065 % to 0.132 %
34	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to to 10 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	100 mA to 1 A	0.132 % to 0.151 %
35	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 1 kHz to to 5 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	1 A to 10 A	0.151 % to 0.206 %
36	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	1 A to 10 A	0.093 % to 0.206 %



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37	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	10 A to 20 A	0.206 % to 0.333 %
38	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	100 µA to 100 mA	0.079 % to 0.077 %
39	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	100 mA to 1 A	0.077 % to 0.093 %
40	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 70 Hz	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	1 mA to 20 mA	0.0280 % to 0.0060 %
41	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 70 Hz	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	100 A to 120 A	0.0042 % to 0.0110 %



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42	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 40 Hz to 70 Hz	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	20 mA to 100 A	0.0060 % to 0.0042 %
43	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using Precision CT Setup, High Current Source & 3 Phase Reference by Direct Method/Comparison Method	120 A to 3200 A	0.03 % to 0.06 %
44	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	1 mV to 100 mV	0.386 % to 0.022 %
45	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 10 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	100 V to 1000 V	0.020 % to 0.160 %
46	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 100 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	> 10 mV to 100 mV	0.095 % to 0.135 %



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47	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 100 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	> 10 V to 100 V	0.025 % to 0.149 %
48	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 100 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	> 100 mV to 10 V	0.024 % to 0.124 %
49	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 1 kHz to 100 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	1 mV to 10 mV	0.384 % to 0.947 %
50	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 100 kHz to 300 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	> 10 mV to 100 mV	0.947 % to 0.558 %
51	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 100 kHz to 300 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	1 mV to 10 mV	1.183 % to 2.403 %



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52	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	10 V to 30 V	0.019 % to 0.026 %
53	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 20 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	100 mV to 10 V	0.022 % to 0.019 %
54	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 40 Hz to 70 Hz	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	10 V to 480 V	0.006 % to 0.003 %
55	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	10 V to 100 V	0.036 %
56	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 45 Hz to 1 kHz	Using 8 ½ Reference Multimeter With Multi Product Calibrator By Direct Method/Comparison Method	100 V to 1000 V	0.036 % to 0.032 %



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57	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 3 Phase Reference Standard With Voltage Transformer & High Voltage Source By Direct Method/ Comparison Method	480 V to 150 kV	0.10 %
58	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Distortion Factor (10 mA to 100 A), Fundamental Frequency: 50 Hz	Using 3 Phase Energy Reference Standard With Meter Test System By Direct Method/ Comparison Method	2nd to 40th (Harmonic)	0.5 % to 0.509 %
59	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion (10 mA to 100 A), Fundamental Frequency: 50 Hz	Using 3 Phase Energy Reference Standard With Meter Test System By Direct Method/ Comparison Method	2nd to 40th (Harmonic)	0.5 % to 0.509 %
60	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonic, Total Harmonic Distortion, Distortion Factor (10 V to 240 V, Fundamental Frequency: 50 Hz)	Using 3 Phase Energy Reference Standard with meter test System by Direct Method/ Comparison Method	2nd to 40th (Harmonic)	0.5 %
61	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Phase Angle (40 Hz to 70 Hz, 25 V to 480 V, 1 mA to 120 A)	Using 3 Phase Energy Reference Standard With Meter Test System By Direct Method/ Comparison Method	0° to 360°	0.009°



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62	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor @ 40 Hz to 70 Hz (25 V to 480 V, 1 mA to 120 A)	Using 3 Phase Energy Reference Standard with Meter Test System By Direct Method/ Comparison Method	0.01 PF to 1 PF (Lag/Lead)	0.0001 PF
63	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 2.5 Wh to 48 kWh	0.0047 % to 0.4 %
64	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 2.5 mWh to 4.8 kWh	0.0039 % to 0.4 %
65	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 25 Wh to 57.6 kWh	0.0162 % to 1.6 %
66	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Energy @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	0.25 mWh to 4.8 Wh	0.0301 % to 3.0002 %



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67	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 2.5 W to 48 kW	0.0047 % to 0.4 %
68	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 2.5 mW to 4.8 kW	0.0039 % to 0.4 %
69	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 25 W to 57.6 kW	0.0162 % to 1.6 %
70	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Active Power @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.01 to UPF (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	0.25 mW to 4.8 W	0.0301 % to 3.0009 %
71	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 25 VARh to 48 kVARh	0.0047 % to 0.0401 %



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72	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 0.025 VARh to 4.8 kVARh	0.0039 % to 0.0402 %
73	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 250 VARh to 57.6 kVARh	0.0162 % to 0.16 %
74	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Energy @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	2.5 mVARh to 4.8 VARh	0.3019 % to 0.0301 %
75	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 A to 100 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 25 VAR to 48 kVAR	0.0401 % to 0.0047 %
76	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, > 10 mA to 10 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 25 mVAR to 4.8 kVAR	0.0039 % to 0.0443 %



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77	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, > 100 A to 120 A, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	> 0.25 kVAr to 57.6 kVAr	0.0162 % to 0.16 %
78	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Single Phase AC Reactive Power @ 40 Hz to 70 Hz {25 V to 480 V, 1 mA to 10 mA, 0.1 to 1 (lag & lead)}	Using 3 Phase Reference Standard With Meter Test System By Direct Method/ Comparison Method	2.5 mVAr to 4.8 VAR	0.3085 % to 0.0301 %
79	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 45 Hz to 1 kHz	Using Calibrator By Direct Method	1 A to 20 A	0.019 % to 0.239 %
80	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 0.019 %
81	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Calibrator By Direct Method	1 mV to 1 V	1.289 % to 0.024 %



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82	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 45 Hz to 1 kHz	Using Calibrator By Direct Method	1 V to 1000 V	0.024 % to 0.033 %
83	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	> 10 μ A to 1 mA	0.016 % to 0.003 %
84	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>1 A to 10 A	0.103 % to 0.064 %
85	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>1 mA to 10 mA	0.013 % to 0.004 %
86	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>10 A to 20 A	0.219 % to 0.178 %



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87	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>10 mA to 100 mA	0.034 % to 0.083 %
88	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>100 mA to 1 A	0.083 % to 0.054 %
89	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	1 µA to 10 µA	0.103 % to 0.016 %
90	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>1 mV to 100 mV	0.064 % to 0.0024 %
91	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>10 V to 100 V	0.0023 % to 0.0017 %



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92	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>100 V to 1000 V	0.0017 % to 0.0019 %
93	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Reference Multimeter with Multi Product calibrator by Direct Method/Comparison Method	>100 mV to 10 V	0.0024 % to 0.0007 %
94	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 8½ DMM By Direct Method	10 Mohm to 100 Mohm	0.008 % to 0.051 %
95	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 wire)	Using 8 ½ Reference Multimeter By Direct Method	100 Mohm to 1 Gohm	0.051 % to 0.541 %
96	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire/4 Wire)	Using 8 ½ Reference Multimeter By Direct Method	>100 ohm to 10 Mohm	0.0026 % to 0.008 %



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97	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 8½ DMM by Direct Method	0.1 ohm to 1 ohm	0.014 % to 0.0049 %
98	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using Micro Ohm Meter By Direct Method	1 mohm to 100 mohm	1.164 % to 0.014 %
99	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 wire)	Using 8½ DMM By Direct Method	1 ohm to 10 ohm	0.0049 % to 0.0028 %
100	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 8 ½ Reference Multimeter By Direct Method	10 ohm to 100 ohm	0.0028 % to 0.0023 %
101	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	1 A to 20 A	0.041 % to 0.114 %
102	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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103	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using calibrator by Direct Method	100 mA to 1 A	0.013 % to 0.041 %
104	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using calibrator by Direct Method	1 mV to 100 mV	0.251 % to 0.003 %
105	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Calibrator By Direct Method	100 mV to 1000 V	0.003 %
106	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Multi Product calibrator by Direct Method	>700 Mohm to 1 Gohm	0.659 % to 1.117 %
107	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Fixed Value Resistance by direct method	1 Tohm	2.645 %
108	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using Multi Product calibrator by Direct Method	10 Mohm to 100 Mohm	0.012 % to 0.084 %



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109	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire)	Using calibrator by Direct Method	100 Mohm to 700 Mohm	0.084 % to 0.659 %
110	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire) @ 1000 V to 5000 V	Using Fixed Value Resistance Dy Direct Method	10 Gohm	0.39 %
111	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 wire) @ 1000 V to 5000 V	Using Fixed Value Resistance By Direct Method	100 Gohm	2.53 %
112	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire/4 Wire)	Using Multi Product calibrator by Direct Method	10 ohm to 10 Mohm	0.005 % to 0.012 %
113	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 wire)	Using Decade Resistance box by Direct Method	1 mohm to 100 mohm	1.17 % to 2.310 %
114	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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115	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	AC Magnetic Field @50 Hz / Gauss Meter, Permanent Magnet, Electro Magnet	Using Gauss Meter, Permanent Magnet, Electro Magnet By Direct/Comparison Method	0.5 Gauss to 2000 Gauss	4.34 % to 4.49 %
116	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance & Tan delta Up to 12 kV	Using Capacitance & Tan delta tester by Direct Method	10 % to 0.001 % (Tan delta)	1.0 %
117	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Capacitance & Tan Delta Up to 12 kV	Using Capacitance & Tan delta tester by Direct Method	50 pF to 7100 pF	1.25 %
118	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Current Phase error) (50 Hz, 1 % to 120 %)	Using Precision current transformer & Automatic Instrument Transformer Test Set by Comparison Method	1 A to 5 A	0.30 minute to 0.80 minute
119	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Current Ratio error) (50 Hz, 1 % to 120 %)	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	1 A to 5 A	0.007 % to 0.020 %



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120	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Voltage Phase error) (50 Hz, 80 % to 120 %)	Using Automatic Instrument Transformer Test Set & EMVT by Comparison Method	63.5 V, 110 V	0.50 minute
121	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-VT Comparator / Bridge (Voltage Ratio error) (50 Hz, 80 % to 120 %)	Using Automatic Instrument Transformer Test Set & EMVT by Comparison Method	63.5 V, 110 V	0.008 %
122	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)	1.22 minute to 1.45 minute
123	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 %
124	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 3200 A (Primary), 1 A & 5 A (Secondary)	0.012 % to 0.034 %



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125	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection)-Phase Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	3200 A to 10000 A (Primary), 1 A & 5 A (Secondary)	0.55 minute to 1.45 minute
126	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 3200 A (Primary), 1 A & 5 A (Secondary)	0.55 minute to 1.45 minute
127	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Primary Injection)-Ratio Error	Using Precision current transformer & Automatic Instrument transformer test set by Comparison Method	3200 A to 10000 A (Primary), 1 A & 5 A (Secondary)	0.021 % to 0.038 %
128	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 %
129	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection) Ratio Error	Using Portable CT/VT Calibrator By Direct Method	5 A (Primary) to 5 A (Secondary)	0.10 %



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130	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)	2.80 minute to 6.32 minute
131	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection)-Phase Angle Error	Using Portable CT/VT Calibrator By Direct Method	5 A (Primary) to 5 A (Secondary)	2.80 minute to 6.32 minute
132	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	DC Magnetic Field / Gauss Meter, Permanent Magnet, Electro Magnet	Using Gauss Meter and Electro Magnet By Direct / Comparison Method	100 Gauss to 5000 Gauss	2.201 % to 2.252 %
133	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 (Primary) / 50.8 V to 132 V (Secondary) to >33/Sqrt(3) kV to 220/Sqrt(3) kV (Primary), 50.8 V to 76.2 V (Secondary)	0.015 %
134	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 33 kV (Primary), 50.8 V to 132 V (Secondary)	0.025 % to 0.015 %



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135	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	>33 kV (Primary) / 50.8 V to 132 V (Secondary) to >33/Sqrt(3) kV to 220/Sqrt(3) kV (Primary), 50.8 V to 76.2 V (Secondary)	0.62 minute
136	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)	0.050 %
137	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)	2 minute
138	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 33 kV(Primary), 50.8 V to 132 V (Secondary)	1 minute to 0.62 minute
139	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	5.60 minute



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140	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	0.15 %
141	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Timer Counter Analyzer by Direct Method	1 Hz to 300 MHz	0.00012 % to 0.00001 %
142	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Timer Counter Analyzer With Signal Generator By Direct/Comparison Method	2 MHz to 300 MHz	0.00001 %
143	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 3 Phase Reference Standard with Meter Test System by Direct Method/ Comparison Method	40 Hz to 70 Hz	0.0004 %
144	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Frequency Counter With Multi Product Calibrator By Direct/Comparison Method	5 s to 10000 s	0.00155 s to 0.6 s



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145	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct Calibrator by Direct Method	1 Hz to 2 MHz	0.003 %
146	THERMAL-SPECIFIC HEAT & HUMIDITY	Environmental Chamber (Multi Position)	Using Minimum Nine Temperature and Humidity Sensors with Data Logger by Multi-position Calibration Method	20 % RH to 98 % RH @ 20 °C to 70 °C	2.1 % RH
147	THERMAL-SPECIFIC HEAT & HUMIDITY	Temperature & Humidity Indicator With Sensor	Using Temperature & Humidity Sensor With Environmental Chamber by Comparison Method	20 % RH to 98 % RH @ 20 °C to 70 °C	1.75 % RH
148	THERMAL-TEMPERATURE	Environmental Chamber (Multi Position)	Using Minimum Nine RTD's With Data Acquisition System By Multi-position Calibration Method	(-) 40 °C to 100 °C	1 °C
149	THERMAL-TEMPERATURE	Environmental Chamber (Multi Position)	Using Minimum Nine RTD's with Data Acquisition System by Multiposition Calibration 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 $k = 2$.