



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

GANGA CALIBRATION SERVICES PRIVATE LIMITED, C-14, CO-OPERATIVE,
INDUSTRIAL ESTATE, BALANAGAR, HYDERABAD, MEDCHAL MALKAJGIRI,
TELANGANA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2127

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Validity

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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)(\pm)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current at (40 Hz to 65 Hz)	Using 3 phase Reference Standard with Source by Comparison Method	>10 mA to 100 A	0.027 % to 0.012 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current at (40 Hz to 65 Hz)	Using 3 phase Reference Standard with Source by Comparison Method	>100 A to 120 A	0.012 % to 0.016%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current at (40 Hz to 65 Hz)	Using 3 phase Reference Standard with Source by Comparison Method	1 mA to 10 mA	0.035 % to 0.027%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage at (40 Hz to 65 Hz)	Using 3 phase Reference Standard with Source by Comparison Method	>10 V to 480 V	0.007 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage at (40 Hz to 65 Hz)	Using 3 phase Reference Standard with Source by Comparison Method	500 mV to 10 V	0.03 % to 0.007 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (1-Phase, 3-Phase) Cos phi \pm 0.01 to 1, 1 mA to 10 mA, 30 V to 320 V at 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	0.3 mWh to 9.6 Wh	0.045 % to 0.013 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (1-Phase, 3-Phase) Cos phi \pm 0.01 to 1, 100 A to 120 A, 30 V to 320 V, 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	30 Wh to 115.2 kWh	0.011 % to 0.019 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (1-Phase, 3-Phase) Cos phi \pm 0.01 to 1, 10 mA to 50 mA, 30 V to 320 V, 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	3 mWh to 48 Wh	0.013 % to 0.011 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (1-Phase, 3-Phase) Cos phi \pm 0.01 to 1, 50 mA to 100 A, 30 V to 320 V, 40Hz to 65Hz	Using 3 Phase Reference Standard with Source by Comparison Method	15 mWh to 96 kWh	0.011 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (1-Phase, 3-Phase) Cos $\phi \pm 0.01$ to 1, 1 mA to 10 mA, 40 V to 320 V, 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	0.4 mW to 9.6 W	0.045 % to 0.013 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (1-Phase, 3-Phase) Cos $\phi \pm 0.01$ to 1, 10 mA to 50 mA, 40 V to 320 V, 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	4 mW to 48 W	0.013 % to 0.011 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (1-Phase, 3-Phase) Cos $\phi \pm 0.01$ to 1, 100 A to 120 A, 40 V to 320 V, 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	40 W to 115.2 kW	0.016 % to 0.019 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (1-Phase, 3-Phase) Cos $\phi \pm 0.01$ to 1, 50 mA to 100 A, 40 V to 320 V, 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	20 mW to 96 kW	0.011 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Energy (1-Phase, 3-Phase) (1 mA to 10 mA, 30 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	0.3 mVAh to 9.6 VAh	0.041 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Energy (1-Phase, 3-Phase) (100 A to 120 A, 30 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	30 VAh to 115.2 kVAh	0.016 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Energy (1-Phase, 3-Phase) (50 mA to 100 A, 30 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	15 mVAh to 96 kVAh	0.011 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Energy (1-Phase, 3-Phase) (10 mA to 50 mA, 30 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	3 mVAh to 48 VAh	0.012 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Power (1-Phase, 3-Phase) (10 mA to 50 mA, 40 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	400 mVA to 48 VA	0.013 % to 0.011 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Power (1-Phase, 3-Phase) (100 A to 120 A, 40 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	4 kVA to 115.2 kVA	0.011 % to 0.019 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Power (1-Phase, 3-Phase) (50 mA to 100 A, 40 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	2 VA to 96 kVA	0.011 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Power (1-Phase, 3-Phase) (1 mA to 10 mA, 40 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	40 mVA to 9.6 VA	0.045 % to 0.013 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonics at 50 Hz, (40 V to 320 V), (100 mA to 10 A)	Using 3phase Reference Standard with Source by Comparison Method	1st Order to 40th Order	0.5 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	High Voltage at 50 Hz	Using Standard Potential Transformer & Digital Multimeter by Direct Method	0.5 kV to 90 kV	0.3 % to 0.09 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor	Using 3 phase Reference Standard with Source by Comparison Method	(-)1 PF to (+)1 PF	0.0005 PF



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Energy (1-Phase, 3-Phase) Sin phi \pm 0.01 to 1, 1 mA to 10 mA, 30 V to 320 V, 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	0.3 mVARh to 9.6 VARh	0.045 % to 0.013 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Energy (1-Phase, 3-Phase) Sin phi \pm 0.01 to 1, 100 A to 120 A, 30 V to 320 V, 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	30 VARh to 115.2 kVARh	0.016 % to 0.019 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Energy (1-Phase, 3-Phase) Sin phi \pm 0.01 to 1, 50 mA to 100 A, 30 V to 320 V, 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	15 mVARh to 96 kVARh	0.011 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Energy (1-Phase, 3-Phase) Sin phi \pm 0.01 to 1, 10 mA to 50 mA, 30 V to 320 V, 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	3 mVARh to 48 VARh	0.013 % to 0.011 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Power (1-Phase, 3-Phase) Sin phi \pm 0.01 to 1, (1 mA to 10 mA, 40 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	0.4 mVAR to 9.6 VAR	0.045 % to 0.013 %



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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Power (1-Phase, 3-Phase) Sin $\phi \pm 0.01$ to 1, (10 mA to 50 mA, 40 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	4 mVAR to 48 VAR	0.013 % to 0.011 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Power (1-Phase, 3-Phase) Sin $\phi \pm 0.01$ to 1, 100 A to 120 A, 40 V to 320 V at 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	40 VAR to 115.2 kVAR	0.016 % to 0.019 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Power (1-Phase, 3-Phase) Sin $\phi \pm 0.01$ to 1, (50 mA to 100 A, 40 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	26 mVAR to 96 kVAR	0.011 %
33	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-PT Comparator/Bridge (Phase Error)	Using CT-PT Bridge by Comparison Method	CT Mode - 1A, 5A PT Mode - 63.5V, 110V	0.5 minute
34	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-PT Comparator/Bridge (Ratio Error)	Using CT-PT Bridge by Comparison Method	CT Mode - 1 A, 5 A & PT Mode - 63.5 V, 110 V	0.008 % to 0.011 %



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35	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection) Phase Error	Using Portable CT/VT calibrator Secondary Injection by Direct Method	10 A to 8000 A (Primary) 1 A (Secondary), 30 A to 1000A (Primary) 5A (Secondary)	5.90 minute
36	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection) Ratio Error	Using Portable CT/VT calibrator Secondary Injection by Direct Method	10 A to 8000 A (Primary) 1A (Secondary), 30 A to 1000A (Primary) 5 A (Secondary)	0.031 %
37	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50 Hz (Phase Error)	Secondary- 1 A & 5 A, Using STD CT & Comparator with Source Primary Injection by Comparison Method	>3200 A to 8000 A	2.6 minute
38	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50 Hz (Phase Error)	Secondary- 1 A & 5 A, Using STD CT & Comparator with Source Primary Injection by Comparison Method	1 A to 3200 A	2.2 minute
39	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50Hz (Ratio Error)	Secondary- 1 A & 5 A, Using STD CT & Comparator with Source Primary Injection by Comparison Method	>3200 A to 8000 A	0.034 %



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40	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50Hz (Ratio Error)	Secondary- 1 A & 5 A, Using STD CT & Comparator with Source Primary Injection by Comparison Method	1 A to 3200 A	0.032 %
41	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer Burden Box	Using Reference Standard By Direct Method	1.25 VA to 60 VA	0.03 %
42	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50 Hz (Phase Error)	Secondary - 63.5 V & 110 V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	>3.3 kV /110 V & 3.3 kV / Sqrt(3)/110 V /Sqrt(3) to 33 kV /110 V& 33 kV / Sqrt(3)/110V /Sqrt(3)	2.92 minute to 1.69 minute
43	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50 Hz (Phase Error)	Secondary -63.5 V & 110 V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	220 V/110 V & 220 V/ Sqrt(3)/110 V/ Sqrt(3) to 3.3 kV /110 V & 3.3 kV /Sqrt(3) /110 V /Sqrt(3)	2.92 minute
44	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50 Hz (Phase Error)	Secondary - 63.5 V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	66 kV /Sqrt(3) /110 V/ Sqrt(3) to 132 kV /Sqrt(3) /110 V /Sqrt(3)	1.75 min



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45	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer (Secondary Injection) Phase Error	Using Portable CT/VT calibrator Secondary Injection by Direct Method	(11 kV to 132 kV)/sqrt(3) (Primary) 110V/sqrt(3)(Secondary)	5.90 minute
46	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer (Secondary Injection) Ratio Error	Using Portable CT/VT calibrator Secondary Injection by Direct Method	(11 kV to 132 kV) /sqrt(3) (Primary)110V /sqrt(3)(Secondary)	0.05 %
47	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50 Hz (Ratio Error)	Secondary -63.5 V & 110 V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	220 V / 110 V & 220 V /Sqrt(3) /110 V /Sqrt(3) to 3.3 kV /110 V & 3.3 kV /Sqrt(3) /110V /Sqrt(3)	0.068 %
48	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50 Hz (Ratio Error)	Secondary - 63.5 V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	66 kV /Sqrt(3) /110 V /Sqrt(3) to 132 kV /Sqrt(3) /110 V /Sqrt(3)	0.059 %
49	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50Hz (Ratio Error)	Secondary -63.5 V & 110 V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	>3.3 kV /110 V & 3.3 kV /Sqrt(3) /110 V /Sqrt(3) to 33 kV /110 V & 33 kV /Sqrt(3)/ 110 V /Sqrt(3)	0.066 % to 0.059 %



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50	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer Burden Box	Using Reference Standard By Direct Method	1.25 VA to 200 VA	0.03%
51	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 3-Phase Reference Standard with Source by Comparison Method	40 Hz to 65 Hz	0.02 %



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current at (40 Hz to 65 Hz)	Using 3 phase Reference Standard with Source by Comparison Method	>10 mA to 100 A	0.027 % to 0.012 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current at (40 Hz to 65 Hz)	Using 3 phase Reference Standard with Source by Comparison Method	>100 A to 120 A	0.012 % to 0.016%
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current at (40 Hz to 65 Hz)	Using 3 phase Reference Standard with Source by Comparison Method	1 mA to 10 mA	0.035 % to 0.027%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage at (40 Hz to 65 Hz)	Using 3 phase Reference Standard with Source by Comparison Method	>10 V to 480 V	0.007 %



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6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (1-Phase, 3-Phase) Cos phi \pm 0.01 to 1, 1 mA to 10 mA, 30 V to 320 V at 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	0.3 mWh to 9.6 Wh	0.045 % to 0.013 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (1-Phase, 3-Phase) Cos phi \pm 0.01 to 1, 100 A to 120 A, 30 V to 320 V, 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	30 Wh to 115.2 kWh	0.011 % to 0.019 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (1-Phase, 3-Phase) Cos phi \pm 0.01 to 1, 10 mA to 50 mA, 30 V to 320 V, 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	3 mWh to 48 Wh	0.013 % to 0.011 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy (1-Phase, 3-Phase) Cos phi \pm 0.01 to 1, 50 mA to 100 A, 30 V to 320 V, 40Hz to 65Hz	Using 3 Phase Reference Standard with Source by Comparison Method	15 mWh to 96 kWh	0.011 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (1-Phase, 3-Phase) Cos $\phi \pm 0.01$ to 1, 1 mA to 10 mA, 40 V to 320 V, 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	0.4 mW to 9.6 W	0.045 % to 0.013 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (1-Phase, 3-Phase) Cos $\phi \pm 0.01$ to 1, 10 mA to 50 mA, 40 V to 320 V, 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	4 mW to 48 W	0.013 % to 0.011 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (1-Phase, 3-Phase) Cos $\phi \pm 0.01$ to 1, 100 A to 120 A, 40 V to 320 V, 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	40 W to 115.2 kW	0.016 % to 0.019 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Power (1-Phase, 3-Phase) Cos $\phi \pm 0.01$ to 1, 50 mA to 100 A, 40 V to 320 V, 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	20 mW to 96 kW	0.011 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Energy (1-Phase, 3-Phase) (1 mA to 10 mA, 30 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	0.3 mVAh to 9.6 VAh	0.041 %



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Energy (1-Phase, 3-Phase) (100 A to 120 A, 30 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	30 VAh to 115.2 kVAh	0.016 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Energy (1-Phase, 3-Phase) (50 mA to 100 A, 30 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	15 mVAh to 96 kVAh	0.011 %
17	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Energy (1-Phase, 3-Phase) (10 mA to 50 mA, 30 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	3 mVAh to 48 VAh	0.012 %
18	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Power (1-Phase, 3-Phase) (10 mA to 50 mA, 40 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	400 mVA to 48 VA	0.013 % to 0.011 %
19	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Power (1-Phase, 3-Phase) (100 A to 120 A, 40 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	4 kVA to 115.2 kVA	0.011 % to 0.019 %



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20	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Power (1-Phase, 3-Phase) (50 mA to 100 A, 40 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	2 VA to 96 kVA	0.011 %
21	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Power (1-Phase, 3-Phase) (1 mA to 10 mA, 40 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	40 mVA to 9.6 VA	0.045 % to 0.013 %
22	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Harmonics at 50 Hz, (40 V to 320 V), (100 mA to 10 A)	Using 3phase Reference Standard with Source by Comparison Method	1st Order to 40th Order	0.5 %
23	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	High Voltage at 50 Hz	Using Standard Potential Transformer & Digital Multimeter by Direct Method	0.5 kV to 90 kV	0.3 % to 0.09 %
24	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor	Using 3 phase Reference Standard with Source by Comparison Method	(-)-1 PF to (+)1 PF	0.0005 PF



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25	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Energy (1-Phase, 3-Phase) Sin phi \pm 0.01 to 1, 1 mA to 10 mA, 30 V to 320 V, 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	0.3 mVARh to 9.6 VARh	0.045 % to 0.013 %
26	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Energy (1-Phase, 3-Phase) Sin phi \pm 0.01 to 1, 100 A to 120 A, 30 V to 320 V, 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	30 VARh to 115.2 kVARh	0.016 % to 0.019 %
27	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Energy (1-Phase, 3-Phase) Sin phi \pm 0.01 to 1, 50 mA to 100 A, 30 V to 320 V, 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	15 mVARh to 96 kVARh	0.011 %
28	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Energy (1-Phase, 3-Phase) Sin phi \pm 0.01 to 1, 10 mA to 50 mA, 30 V to 320 V, 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	3 mVARh to 48 VARh	0.013 % to 0.011 %
29	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Power (1-Phase, 3-Phase) Sin phi \pm 0.01 to 1, (1 mA to 10 mA, 40 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	0.4 mVAR to 9.6 VAR	0.045 % to 0.013 %



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30	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Power (1-Phase, 3-Phase) Sin $\phi \pm 0.01$ to 1, (10 mA to 50 mA, 40 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	4 mVAR to 48 VAR	0.013 % to 0.011 %
31	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Power (1-Phase, 3-Phase) Sin $\phi \pm 0.01$ to 1, 100 A to 120 A, 40 V to 320 V at 40 Hz to 65 Hz	Using 3 Phase Reference Standard with Source by Comparison Method	40 VAR to 115.2 kVAR	0.016 % to 0.019 %
32	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Power (1-Phase, 3-Phase) Sin $\phi \pm 0.01$ to 1, (50 mA to 100 A, 40 V to 320 V at 40 Hz to 65 Hz)	Using 3 Phase Reference Standard with Source by Comparison Method	26 mVAR to 96 kVAR	0.011 %
33	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-PT Comparator/Bridge (Phase Error)	Using CT-PT Bridge by Comparison Method	CT Mode - 1A, 5A PT Mode - 63.5V, 110V	0.5 minute
34	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-PT Comparator/Bridge (Ratio Error)	Using CT-PT Bridge by Comparison Method	CT Mode - 1 A, 5 A & PT Mode - 63.5 V, 110 V	0.008 % to 0.011 %



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35	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection) Phase Error	Using Portable CT/VT calibrator Secondary Injection by Direct Method	10 A to 8000 A (Primary) 1 A (Secondary), 30 A to 1000A (Primary) 5A (Secondary)	5.90 minute
36	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection) Ratio Error	Using Portable CT/VT calibrator Secondary Injection by Direct Method	10 A to 8000 A (Primary) 1A (Secondary), 30 A to 1000A (Primary) 5 A (Secondary)	0.031 %
37	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50 Hz (Phase Error)	Secondary- 1 A & 5 A, Using STD CT & Comparator with Source Primary Injection by Comparison Method	>3200 A to 8000 A	2.6 minute
38	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50 Hz (Phase Error)	Secondary- 1 A & 5 A, Using STD CT & Comparator with Source Primary Injection by Comparison Method	1 A to 3200 A	2.2 minute
39	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50Hz (Ratio Error)	Secondary- 1 A & 5 A, Using STD CT & Comparator with Source Primary Injection by Comparison Method	>3200 A to 8000 A	0.034 %



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40	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50Hz (Ratio Error)	Secondary- 1 A & 5 A, Using STD CT & Comparator with Source Primary Injection by Comparison Method	1 A to 3200 A	0.032 %
41	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer Burden Box	Using Reference Standard By Direct Method	1.25 VA to 60 VA	0.03 %
42	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50 Hz (Phase Error)	Secondary - 63.5 V & 110 V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	>3.3 kV /110 V & 3.3 kV / Sqrt(3)/110 V /Sqrt(3) to 33 kV /110 V& 33 kV / Sqrt(3)/110V /Sqrt(3)	2.92 minute to 1.69 minute
43	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50 Hz (Phase Error)	Secondary -63.5 V & 110 V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	220 V/110 V & 220 V/ Sqrt(3)/110 V/ Sqrt(3) to 3.3 kV /110 V & 3.3 kV /Sqrt(3) /110 V /Sqrt(3)	2.92 minute
44	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50 Hz (Phase Error)	Secondary - 63.5 V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	66 kV /Sqrt(3) /110 V/ Sqrt(3) to 132 kV /Sqrt(3) /110 V /Sqrt(3)	1.75 min



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45	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer (Secondary Injection) Phase Error	Using Portable CT/VT calibrator Secondary Injection by Direct Method	(11 kV to 132 kV)/sqrt(3) (Primary) 110V/sqrt(3)(Secondary)	5.90 minute
46	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer (Secondary Injection) Ratio Error	Using Portable CT/VT calibrator Secondary Injection by Direct Method	(11 kV to 132 kV) /sqrt(3) (Primary)110V /sqrt(3)(Secondary)	0.05 %
47	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50 Hz (Ratio Error)	Secondary -63.5 V & 110 V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	220 V / 110 V & 220 V /Sqrt(3) /110 V /Sqrt(3) to 3.3 kV /110 V & 3.3 kV /Sqrt(3) /110V /Sqrt(3)	0.068 %
48	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50 Hz (Ratio Error)	Secondary - 63.5 V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	66 kV /Sqrt(3) /110 V /Sqrt(3) to 132 kV /Sqrt(3) /110 V /Sqrt(3)	0.059 %
49	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50Hz (Ratio Error)	Secondary -63.5 V & 110 V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	>3.3 kV /110 V & 3.3 kV /Sqrt(3) /110 V /Sqrt(3) to 33 kV /110 V & 33 kV /Sqrt(3)/ 110 V /Sqrt(3)	0.066 % to 0.059 %



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50	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer Burden Box	Using Reference Standard By Direct Method	1.25 VA to 200 VA	0.03%
51	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 3-Phase Reference Standard with Source by Comparison Method	40 Hz to 65 Hz	0.02 %

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