



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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

Laboratory Name :

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-2127

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Validity 01/06/2022 to 31/05/2024

Last Amended on

23/06/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current at (40Hz to 65Hz)	Using 3phase 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 (40Hz to 65Hz)	Using 3phase 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 (40Hz to 65Hz)	Using 3phase Reference Standard with Source by Comparison Method	1 mA to 10 mA	0.027%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (1-Phase, 3-Phase) Active Cos phi ± 0.01 to 1, Reactive Sin phi ±0.01to1, Apparent (>10mA to 50mA, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	4 mWh/VArh/Vah to 48 Wh/VArh/Vah	0.012 %



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5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Energy (1-Phase, 3-Phase) Active Cos $\phi \pm 0.01$ to 1, Reactive Sin $\phi \pm 0.01$ to 1, Apparent (>100A to 120A, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	40 Wh/VArh/Vah to 115.2 kWh/KVArh/KVah	0.016 %
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Energy (1-Phase, 3-Phase) Active Cos $\phi \pm 0.01$ to 1, Reactive Sin $\phi \pm 0.01$ to 1, Apparent (>50mA to 100A, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	20 mWh/VArh/Vah to 96 kWh/KVArh/KVah	0.011%
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Energy (1-Phase, 3-Phase) Active Cos $\phi \pm 0.01$ to 1, Reactive Sin $\phi \pm 0.01$ to 1, Apparent (1mA to 10mA, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	0.4 mWh/VArh/Vah to 9.6 Wh/VArh/Vah	0.041 %



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8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power (1-Phase, 3-Phase) Active Cos $\phi \pm 0.01$ to 1, Reactive Sin $\phi \pm 0.01$ to 1 & Apparent (>100A to 120A, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	40 W/Var/VA to 115.2 KW/Kvar/KVA	0.016%
9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power (1-Phase, 3-Phase) Active Cos $\phi \pm 0.01$ to 1, Reactive Sin $\phi \pm 0.01$ to 1 & Apparent (>10mA to 50mA, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	4 mW/Var/VA to 48 W/Var/VA	0.012%
10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power (1-Phase, 3-Phase) Active Cos $\phi \pm 0.01$ to 1, Reactive Sin $\phi \pm 0.01$ to 1 & Apparent (>50mA to 100A, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	20 mW/Var/VA to 96 kW/Kvar/KVA	0.011%



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11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power (1-Phase, 3-Phase) Active Cos $\phi \pm 0.01$ to 1, Reactive Sin $\phi \pm 0.01$ to 1 & Apparent (1mA to 10mA, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	0.4 mW/Var/VA to 9.6 W/Var/VA	0.041%
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage at (40Hz to 65Hz)	Using 3phase Reference Standard with Source by Comparison Method	>10 V to 480 V	0.006%
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage at (40Hz to 65Hz)	Using 3phase Reference Standard with Source by Comparison Method	500 mV to 10 V	0.03%
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Harmonics	Using 3phase Reference Standard with Source by Comparison Method	1st Order to 40th Order	0.5%



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	High Voltage at 50Hz	Using Standard Potential Transformer & Digital Multimeter by Direct Method	0.5 kV to 90 kV	0.09 % to 0.30 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor	Using 3phase Reference Standard with Source by Comparison Method	(-)-1 pf to (+)1 pf	0.0005pf
17	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	PE-0.5Min
18	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-PT Comparator/Bridge (Ratio Error)	Using CT-PT Bridge by Comparison Method	CT Mode - 1A, 5A PT Mode - 63.5V, 110V	RE-0.008% to 0.011%
19	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection) Ratio Error Phase Error	Using Portable CT/VT calibrator Secondary Injection by Direct Method	10 A to 8000 A (Primary) 1A (Secondary) 30A to 1000A (Primary) 5A (Secondary)	120%-20% RE - 0.031 & PE - 2.60Min , 5%-1% RE - 0.031 & PE - 5.90Min



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20	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50Hz (Phase Error)	Secondary- 1Amp. & 5Amp., Using STD CT & Comparator with Source Primary Injection by Comparison Method	>3200A to 8000A	PE-2.6 Min
21	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50Hz (Phase Error)	Secondary- 1Amp. & 5Amp., Using STD CT & Comparator with Source Primary Injection by Comparison Method	1A to 3200A	PE- 2.2 Min
22	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50Hz (Ratio Error)	Secondary- 1Amp. & 5Amp., Using STD CT & Comparator with Source Primary Injection by Comparison Method	>3200A to 8000A	RE-0.034%
23	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50Hz (Ratio Error)	Secondary- 1Amp. & 5Amp., Using STD CT & Comparator with Source Primary Injection by Comparison Method	1A to 3200A	RE-0.032%
24	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer Burden Box	Using Reference Standard By Direct Method	1.25 VA to 60 VA	0.03%



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25	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50Hz (Ratio Error, Phase Error)	Secondary -63.5V & 110V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	>3.3kV/110V& 3.3kV/Sqrt(3) to 33kV/110V& 33kV/Sqrt(3)/110V/Sqrt(3)	RE - 0.066% to 0.059% & PE- 2.92Min to 1.69Min
26	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50Hz (Ratio Error, Phase Error)	Secondary -63.5V & 110V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	66kV/Sqrt(3)/110V/Sqrt(3) to 132kV/Sqrt(3)/110V/Sqrt(3)	RE - 0.059% & PE- 1.75Min
27	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50Hz (Ratio Error, Phase Error)	Secondary -63.5V & 110V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	220V/110V & 220V/Sqrt(3)/ to 3.3kV/110V& 3.3kV/Sqrt(3)/110V/Sqrt(3)	RE - 0.066% & PE2.92Min
28	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer (Secondary Injection) Ratio Error Phase Error	Using Portable CT/VT calibrator Secondary Injection by Direct Method	11 kV to 132 kV (Primary) 63.5V (Secondary)	RE - 0.05 & PE - 5.90Min
29	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer Burden Box	Using Reference Standard By Direct Method	1.25VA to 200VA	0.03%



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30	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 (40Hz to 65Hz)	Using 3phase 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 (40Hz to 65Hz)	Using 3phase 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 (40Hz to 65Hz)	Using 3phase Reference Standard with Source by Comparison Method	1 mA to 10 mA	0.027%
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Energy (1-Phase, 3-Phase) Active Cos phi ± 0.01 to 1, Reactive Sin phi ±0.01to1, Apparent (>10mA to 50mA, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	4 mWh/VArh/Vah to 48 Wh/VArh/Vah	0.012 %



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5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Energy (1-Phase, 3-Phase) Active Cos $\phi \pm 0.01$ to 1, Reactive Sin $\phi \pm 0.01$ to 1, Apparent (>100A to 120A, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	40 Wh/VArh/Vah to 115.2 kWh/KVArh/KVah	0.016 %
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Energy (1-Phase, 3-Phase) Active Cos $\phi \pm 0.01$ to 1, Reactive Sin $\phi \pm 0.01$ to 1, Apparent (>50mA to 100A, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	20 mWh/VArh/Vah to 96 kWh/KVArh/KVah	0.011%
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Energy (1-Phase, 3-Phase) Active Cos $\phi \pm 0.01$ to 1, Reactive Sin $\phi \pm 0.01$ to 1, Apparent (1mA to 10mA, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	0.4 mWh/VArh/Vah to 9.6 Wh/VArh/Vah	0.041 %



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8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power (1-Phase, 3-Phase) Active Cos $\phi \pm 0.01$ to 1, Reactive Sin $\phi \pm 0.01$ to 1 & Apparent (>100A to 120A, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	40 W/Var/VA to 115.2 KW/Kvar/KVA	0.016%
9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power (1-Phase, 3-Phase) Active Cos $\phi \pm 0.01$ to 1, Reactive Sin $\phi \pm 0.01$ to 1 & Apparent (>10mA to 50mA, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	4 mW/Var/VA to 48 W/Var/VA	0.012%
10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power (1-Phase, 3-Phase) Active Cos $\phi \pm 0.01$ to 1, Reactive Sin $\phi \pm 0.01$ to 1 & Apparent (>50mA to 100A, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	20 mW/Var/VA to 96 kW/Kvar/KVA	0.011%



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11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Power (1-Phase, 3-Phase) Active Cos $\phi \pm 0.01$ to 1, Reactive Sin $\phi \pm 0.01$ to 1 & Apparent (1mA to 10mA, 40V to 320V at 40Hz to 65Hz)	Using 3Phase Reference Standard with Source by Comparison Method	0.4 mW/Var/VA to 9.6 W/Var/VA	0.041%
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage at (40Hz to 65Hz)	Using 3phase Reference Standard with Source by Comparison Method	>10 V to 480 V	0.006%
13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	AC Voltage at (40Hz to 65Hz)	Using 3phase Reference Standard with Source by Comparison Method	500 mV to 10 V	0.03%
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Harmonics	Using 3phase Reference Standard with Source by Comparison Method	1st Order to 40th Order	0.5%



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15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	High Voltage at 50Hz	Using Standard Potential Transformer & Digital Multimeter by Direct Method	0.5 kV to 90 kV	0.09 % to 0.30 %
16	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Power Factor	Using 3phase Reference Standard with Source by Comparison Method	(-)-1 pf to (+)1 pf	0.0005pf
17	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	PE-0.5Min
18	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	CT-PT Comparator/Bridge (Ratio Error)	Using CT-PT Bridge by Comparison Method	CT Mode - 1A, 5A PT Mode - 63.5V, 110V	RE-0.008% to 0.011%
19	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer (Secondary Injection) Ratio Error Phase Error	Using Portable CT/VT calibrator Secondary Injection by Direct Method	10 A to 8000 A (Primary) 1A (Secondary) 30A to 1000A (Primary) 5A (Secondary)	120%-20% RE - 0.031 & PE - 2.60Min, 5%-1% RE - 0.031 & PE - 5.90Min



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20	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50Hz (Phase Error)	Secondary- 1Amp. & 5Amp., Using STD CT & Comparator with Source Primary Injection by Comparison Method	>3200A to 8000A	PE-2.6 Min
21	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50Hz (Phase Error)	Secondary- 1Amp. & 5Amp., Using STD CT & Comparator with Source Primary Injection by Comparison Method	1A to 3200A	PE- 2.2 Min
22	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50Hz (Ratio Error)	Secondary- 1Amp. & 5Amp., Using STD CT & Comparator with Source Primary Injection by Comparison Method	>3200A to 8000A	RE-0.034%
23	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer at 50Hz (Ratio Error)	Secondary- 1Amp. & 5Amp., Using STD CT & Comparator with Source Primary Injection by Comparison Method	1A to 3200A	RE-0.032%
24	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Current Transformer Burden Box	Using Reference Standard By Direct Method	1.25 VA to 60 VA	0.03%



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25	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50Hz (Ratio Error, Phase Error)	Secondary -63.5V & 110V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	>3.3kV/110V& 3.3kV/Sqrt(3) to 33kV/110V& 33kV/Sqrt(3)/110V/Sqrt(3)	RE - 0.066% to 0.059% & PE- 2.92Min to 1.69Min
26	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50Hz (Ratio Error, Phase Error)	Secondary -63.5V & 110V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	66kV/Sqrt(3)/110V/Sqrt(3) to 132kV/Sqrt(3)/110V/Sqrt(3)	RE - 0.059% & PE- 1.75Min
27	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer/CVT/Voltage Divider at 50Hz (Ratio Error, Phase Error)	Secondary -63.5V & 110V, Using STD PT & Comparator with Source Primary Injection by Comparison Method	220V/110V & 220V/Sqrt(3)/ to 3.3kV/110V& 3.3kV/Sqrt(3)/110V/Sqrt(3)	RE - 0.066% & PE2.92Min
28	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Potential Transformer (Secondary Injection) Ratio Error Phase Error	Using Portable CT/VT calibrator Secondary Injection by Direct Method	11 kV to 132 kV (Primary) 63.5V (Secondary)	RE - 0.05 & PE - 5.90Min
29	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure)	Voltage Transformer Burden Box	Using Reference Standard By Direct Method	1.25VA to 200VA	0.03%



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

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Validity 01/06/2022 to 31/05/2024 **Last Amended on** 23/06/2022

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)(±)
30	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.