



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

TANGEDCO TESTING LABORATORY, NO.129, WALLAJAH ROAD, CHENNAI, TAMIL NADU, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-3445

**Page No**

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**Validity**

04/08/2022 to 03/08/2024

**Last Amended on**

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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 Current	Using Reference 3-phase Comparator By Comparison Method	1 mA to 10 mA	0.034 % to 0.016 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current	Using Reference 3-phase Comparator By Comparison Method	10 mA to 100 A	0.016 % to 0.010 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current	Using Reference 3-phase Comparator By Comparison Method	100 A to 120 A	0.010 % to 0.014 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage	Using Reference 3-phase Comparator By Comparison Method	30 V to 480 V	0.010%



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5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Active /Reactive/Apparent Power(1Phase and 3 Phase ) 240V to 480V, 100 A to 120A, 0.1LG/LD to UPF ,47.5 Hz to 62.5 Hz	Using Reference 3-phase Comparator By Comparison Method	2.4 kW to 172.8 kW	0.012% to 0.160%
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Active/Reactive/Apparent Energy (1Phase and 3 Phase) 240V to 480V, 100 A to 120A, 0.1LG/LD to UPF , 47.5 Hz to 62.5 Hz	Using Reference 3-phase Comparator By Comparison Method	2.4 kWh to 172.8 kWh	0.012 % to 0.160 %
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Active/Reactive/Apparent Energy (1Phase and 3 Phase) 30V to 240V, 1mA to 100A, 0.1LG/LD to UPF, 47.5 Hz to 62.5 Hz	Using Reference 3-phase Comparator By Comparison Method	3 mWh to 72 kWh	0.480 % to 0.012 %
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Active/Reactive/Apparent Power (1 Phase and 3 Phase ) 30V to 240V, 1mA to 100A, 0.1LG/LD to UPF ,47.5 Hz to 62.5 Hz	Using Reference 3-phase Comparator By Comparison Method	3 mW to 72 kW	0.480% to 0.012%



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9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Energy (1Phase and 3 Phase) 240V to 480V, 100 A to 120A, 0.1LG/LD to UPF,47.5 Hz to 62.5 Hz	Using Reference 3-phase Comparator By Comparison Method	2.4 kVAh to 172.8 kVAh	0.012 % to 0.160 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Energy (1Phase and 3 Phase) 30V to 240V, 1mA to 100A, 0.1LG/LD to UPF,47.5 Hz to 62.5 Hz	Using Reference 3-phase Comparator By Comparison Method	3 mVAh to 72 VAh	0.480 % to 0.012 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Power (1Phase and 3 Phase ) 30V to 240V, 1mA to 100A, 0.1LG/LD to UPF,47.5 Hz to 62.5 Hz	Using Reference 3-phase Comparator By Comparison Method	3mVA to 72 VA	0.480 % to 0.012 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Apparent Power (1Phase and 3 Phase) 240V to 480V, 100 A to 120A, 0.1LG/LD to UPF,47.5 Hz to 62.5 Hz	Using Reference 3-phase Comparator By Comparison Method	2.4 kVA to 172.8 kVA	0.012 % to 0.160 %





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13	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Power Factor (47.5 Hz to 62.5 Hz)	Using Reference 3-phase Comparator By Comparison Method	-1 PF to +1 PF	0.0001PF
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Reactive Energy (1Phase and 3 Phase ) 30V to 240V, 1mA to 100A, 0.1LG/LD to UPF,47.5 Hz to 62.5 Hz	Using Reference 3-phase Comparator By Comparison Method	3 mVArh to 72 VArh	0.480 % to 0.012 %
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Reactive Energy (1Phase and 3 Phase) 240V to 480V, 100 A to 120A, 0.1LG/LD to UPF ,47.5 Hz to 62.5 Hz	Using Reference 3-phase Comparator By Comparison Method	2.4 kVArh to 172.8 kVArh	0.012 % to 0.160 %
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Reactive Power (1Phase and 3 Phase ) 240V to 480V, 100 A to 120A, 0.1LG/LD to UPF ,47.5 Hz to 62.5 Hz	Using Reference 3-phase Comparator By Comparison Method	2.4 kVAr to 172.8 kVAr	0.012 % to 0.160 %
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Reactive Power (1Phase and 3 Phase ) 30V to 240V, 1mA to 100A, 0.1LG/LD to UPF, 47.5 Hz to 62.5 Hz	Using Reference 3-phase Comparator By Comparison Method	3 mVAr to 72 VAr	0.480 % to 0.012 %



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18	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using Reference 3-phase Comparator By Comparison Method	45 Hz to 65 Hz	0.002%

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