



National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**ENERGY METER CALIBRATION LAB**

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

SRIKRISHNA NAGAR, SREEKARIYAM P.O., THIRUVANANTHAPURAM, KERALA, INDIA

in the field of

**CALIBRATION**

Certificate Number: CC-4479

Issue Date: 15/07/2025

Valid Until: 14/07/2029

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](http://www.nabl-india.org))

Name of Legal Entity: ENERGY MANAGEMENT CENTRE

Signed for and on behalf of NABL



Anita Rani  
Director

N. Venkateswaran  
Chief Executive Officer



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

**Laboratory Name :**

ENERGY METER CALIBRATION LAB, SRIKRISHNA NAGAR, SREEKARIYAM P.O.,  
THIRUVANANTHAPURAM, KERALA, INDIA

**Accreditation Standard**

ISO/IEC 17025:2017

**Certificate Number**

CC-4479

**Page No**

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**Validity**

15/07/2025 to 14/07/2029

**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)	Active Energy - 1 Phase (240 Volt, 50 Hz, 0.02 A- 30A, 0.5 PF to UPF - Lead/Lag)	Using three phase portable reference standard by direct method	60 Wh to 7200 Wh	0.12 % to 0.13 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy - 3 Phase, 240 V, 50 Hz, 0.05 A - 100 A, 0.5 to UPF (Lead/Lag)	Using three phase portable reference standard by direct method	18 Wh to 72000 Wh	0.12 % to 0.13 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Active Energy - 3 Phase, 60 V, 50 Hz, 0.5 A- 10 A, 0.5 to UPF (Lead/Lag)	Using three phase portable reference standard by direct method	45 Wh to 1800 Wh	0.12 % to 0.28 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	Reactive Energy - 1 Phase (240 V, 50 Hz, 0.02 A- 30 A, 0.5 to UPF (Lead/Lag)	Using three phase portable reference standard by direct method	60 VARh to 7200 VARh	0.12 % to 0.12 %



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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)(±)
5	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Reactive Energy - 3 Phase (240 V, 50 Hz, 0.05 A- 100 A, 0.5 to UPF (Lead/Lag)	Using three phase portable reference standard by direct method	18 VARh to 72000 VARh	0.12 % to 0.12 %
6	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Measure)	Reactive Energy - 3 Phase, 60 V, 50 Hz, 0.5 A- 10 A, 0.5 to UPF (Lead/Lag)	Using three phase portable reference standard by direct method	45 VARh to 1800 VARh	0.12 % to 0.12 %
7	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Active Energy - 1 Phase 240 V, 50 Hz, 0.02 A - 30 A, 0.5 to UPF (Lead/ Lag)	Using Portable Three Phase Fully Automatic Test System with Integrated Current and Voltage Source by Direct Method	2.4 Wh to 7200 Wh	0.12 % to 0.13 %
8	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Active Energy - 3 Phase (240 V, 50 Hz, 0.02 A - 100 A, 0.5 to UPF (Lead/Lag)	Using Portable Three Phase Fully Automatic Test System with Integrated Current and Voltage Source by Direct Method	7.2 Wh to 72000 Wh	0.12 % to 0.27 %



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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)(±)
9	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Active Energy - 3 Phase, 60 V, 50 Hz, 0.5 A to 10 A, 0.5 PF to UPF (Lead/Lag)	Using Portable Three Phase Fully Automatic Test System with Integrated Current and Voltage Source by Direct Method	45 Wh to 1800 Wh	0.12 % to 0.12 %
10	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Reactive Energy - 1 Phase, 240 V, 50 Hz, 0.02 A to 30 A, 0.5 to UPF (Lead/Lag)	Using Three Phase Portable Reference Standard by Direct Method	2.4 VARh to 7200 VARh	0.12 % to 0.13 %
11	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Reactive Energy - 3 Phase (60Volt, 50 Hz, 0.5 A to 10A, 0.5 PF Lead/Lag to UPF)	Using Portable Three Phase Fully Automatic Test System with Integrated Current and Voltage Source by Direct Method	45 VARh to 1800 VARh	0.12 % to 0.12 %
12	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Reactive Energy- 3 Phase, 240 V, 50 Hz, 0.02 A- 100 A, 0.5 to UPF (Lead/Lag)	Using Portable Three Phase Fully Automatic Test System with Integrated Current and Voltage Source by Direct Method	72 VARh to 72000 VARh	0.12 % to 0.23 %

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