



**ENERGY MANAGEMENT CENTRE-KERALA
SREEKRISHNA NAGAR, SREEKARIYAM P.O,
THIRUVANANTHAPURAM
Phone No.: 2594922, Fax: 0471 2594923**

No. EMC/359/2021-ETB-4(ESS)

01-09-2026

NOTICE INVITING QUOTATIONS

Sub: - Inviting quotation for the calibration of source meter MT781 of
Energy Meter Calibration Laboratory (onsite) - reg.

Sealed quotations are invited from NABL accredited laboratories for the onsite calibration of One no. of three phase fully automatic system- MT 781 & one no. of MTi300 equipped in Energy Meter Calibration Laboratory, Thiruvananthapuram. The calibration work is to be carried out as per NABL requirements so as to meet ISO 17025:2017.

The equipment details are as follows.

Sl No	Particulars/ Description	Quantity	Amount incl of GST (Rs)
1	<i>Make: ZERA, Three Phase Portable Fully Automatic Test System with Integrated Current and Voltage Source- Model: MT781(Sl No. 050064717)</i>	1	
2	<i>Make: ZERA, Three phase portable reference standard-Model: MTi300. (Sl No. 19102438)</i>	1	

The details of points to be calibrated is attached along with this notice inviting quotation. The sealed envelope containing the quotation with all taxes and duties and other terms and conditions, should bear the superscription ***“Bid for calibration of equipment in Energy Meter Calibration Laboratory, Thiruvananthapuram”*** and should address to The Director, Energy Management Centre, Sreekrishna Nagar, Sreekariyam, Thiruvananthapuram- 695017. (Ref Mob No: +919037984168)

Terms and Conditions

- Rate quoted shall be inclusive of transportation charges and all taxes.
- The calibration shall be done within 7 days from issue of the work order at onsite at the premises of EMCL at Thiruvananthapuram.
- Proof for certificate of NABL accreditation of laboratory shall be submitted along with

the quotation.

- Payment: 100% on completion and submission of NABL calibration certificate to lab.
- The last date of receiving quotation is **10-09-2026 before 04.00 PM**

Sd/-
Director

ANNEXURE: Load points to be calibrated in MT781

Calibration points- MT781

ACTIVE ENERGY MEASUREMENT IN 3P4W MODE @50Hz				
Voltage Range (in V)	Voltage Value (in V)	Current Range (in A)	Current Value (in A)	Power Factor
250	240	0.02	0.02	UPF
250	240	0.02	0.02	0.5L
250	240	0.02	0.02	0.5C
250	240	0.05	0.05	UPF
250	240	0.05	0.05	0.5L
250	240	0.05	0.05	0.5C
250	240	0.5	0.5	UPF
250	240	0.5	0.5	0.5L
250	240	0.5	0.5	0.5C
250	240	1	1	UPF
250	240	1	1	0.5L
250	240	1	1	0.5C
250	240	2	2	UPF
250	240	2	2	0.5L
250	240	2	2	0.5C
250	240	2.5	2.5	UPF
250	240	2.5	2.5	0.5L
250	240	2.5	2.5	0.5C
250	240	5	5	UPF
250	240	5	5	0.5L
250	240	5	5	0.5C
250	240	10	10	UPF
250	240	10	10	0.5L
250	240	10	10	0.5C
250	240	30	30	UPF
250	240	30	30	0.5L
250	240	30	30	0.5C
250	240	50	50	UPF
250	240	50	50	0.5L
250	240	50	50	0.5C
250	240	60	60	UPF
250	240	60	60	0.5L
250	240	60	60	0.5C
250	240	100	100	UPF
250	240	100	100	0.5L
250	240	100	100	0.5C

60	60	0.5	0.5	UPF
60	60	0.5	0.5	0.5L
60	60	0.5	0.5	0.5C
60	60	1	1	UPF
60	60	1	1	0.5L
60	60	1	1	0.5C
60	60	5	5	UPF
60	60	5	5	0.5L
60	60	5	5	0.5C
60	60	10	10	UPF
60	60	10	10	0.5L
60	60	10	10	0.5C

REACTIVE ENERGY MEASUREMENT IN 3P4W MODE @50Hz

Voltage Range (in V)	Voltage Value (in V)	Current Range (in A)	Current Value (in A)	Power Factor
250	240	0.02	0.02	UPF
250	240	0.02	0.02	0.5L
250	240	0.02	0.02	0.5C
250	240	0.05	0.05	UPF
250	240	0.05	0.05	0.5L
250	240	0.05	0.05	0.5C
250	240	0.5	0.5	UPF
250	240	0.5	0.5	0.5L
250	240	0.5	0.5	0.5C
250	240	1	1	UPF
250	240	1	1	0.5L
250	240	1	1	0.5C
250	240	2	2	UPF
250	240	2	2	0.5L
250	240	2	2	0.5C
250	240	2.5	2.5	UPF
250	240	2.5	2.5	0.5L
250	240	2.5	2.5	0.5C
250	240	5	5	UPF
250	240	5	5	0.5L
250	240	5	5	0.5C
250	240	10	10	UPF
250	240	10	10	0.5L
250	240	10	10	0.5C
250	240	30	30	UPF
250	240	30	30	0.5L
250	240	30	30	0.5C
250	240	50	50	UPF
250	240	50	50	0.5L
250	240	50	50	0.5C
250	240	60	60	UPF
250	240	60	60	0.5L
250	240	60	60	0.5C
250	240	100	100	UPF
250	240	100	100	0.5L
250	240	100	100	0.5C
60	60	0.5	0.5	UPF
60	60	0.5	0.5	0.5L
60	60	0.5	0.5	0.5C
60	60	1	1	UPF
60	60	1	1	0.5L

60	60	1	1	0.5C
60	60	5	5	UPF
60	60	5	5	0.5L
60	60	5	5	0.5C
60	60	10	10	UPF
60	60	10	10	0.5L
60	60	10	10	0.5C

ACTIVE ENERGY MEASUREMENT IN 1P2W MODE @50Hz

Voltage Range (in V)	Voltage Value (in V)	Current Range (in A)	Current Value (in A)	Power Factor
250	240	0.02	0.02	UPF
250	240	0.02	0.02	0.5L
250	240	0.02	0.02	0.5C
250	240	0.05	0.05	UPF
250	240	0.05	0.05	0.5L
250	240	0.05	0.05	0.5C
250	240	0.5	0.5	UPF
250	240	0.5	0.5	0.5L
250	240	0.5	0.5	0.5C
250	240	1	1	UPF
250	240	1	1	0.5L
250	240	1	1	0.5C
250	240	2	2	UPF
250	240	2	2	0.5L
250	240	2	2	0.5C
250	240	2.5	2.5	UPF
250	240	2.5	2.5	0.5L
250	240	2.5	2.5	0.5C
250	240	5	5	UPF
250	240	5	5	0.5L
250	240	5	5	0.5C
250	240	10	10	UPF
250	240	10	10	0.5L
250	240	10	10	0.5C
250	240	30	30	UPF
250	240	30	30	0.5L
250	240	30	30	0.5C

REACTIVE ENERGY MEASUREMENT IN 1P2W MODE @50Hz

Voltage Range (in V)	Voltage Value (in V)	Current Range (in A)	Current Value (in A)	Power Factor
250	240	0.02	0.02	UPF
250	240	0.02	0.02	0.5L
250	240	0.02	0.02	0.5C
250	240	0.05	0.05	UPF
250	240	0.05	0.05	0.5L
250	240	0.05	0.05	0.5C
250	240	0.5	0.5	UPF
250	240	0.5	0.5	0.5L
250	240	0.5	0.5	0.5C
250	240	1	1	UPF
250	240	1	1	0.5L
250	240	1	1	0.5C
250	240	2	2	UPF
250	240	2	2	0.5L

250	240	2	2	0.5C
250	240	2.5	2.5	UPF
250	240	2.5	2.5	0.5L
250	240	2.5	2.5	0.5C
250	240	5	5	UPF
250	240	5	5	0.5L
250	240	5	5	0.5C
250	240	10	10	UPF
250	240	10	10	0.5L
250	240	10	10	0.5C
250	240	30	30	UPF
250	240	30	30	0.5L
250	240	30	30	0.5C

Calibration points- MTi300

ACTIVE ENERGY MEASUREMENT IN 3P4W MODE @50Hz				
Voltage Range (in V)	Voltage Value (in V)	Current Range (in A)	Current Value (in A)	Power Factor
250	240	1	1	UPF
250	240	1	1	0.5L
250	240	1	1	0.5C
250	240	2	2	UPF
250	240	2	2	0.5L
250	240	2	2	0.5C
250	240	2.5	2.5	UPF
250	240	2.5	2.5	0.5L
250	240	2.5	2.5	0.5C
250	240	5	5	UPF
250	240	5	5	0.5L
250	240	5	5	0.5C
250	240	10	10	UPF
250	240	10	10	0.5L
250	240	10	10	0.5C
250	240	30	30	UPF
250	240	30	30	0.5L
250	240	30	30	0.5C
ACTIVE ENERGY MEASUREMENT IN 3P4W MODE @50Hz (Clamp Mode)				
250	240	50	50	UPF
250	240	50	50	0.5L
250	240	50	50	0.5C
250	240	60	60	UPF
250	240	60	60	0.5L
250	240	60	60	0.5C
REACTIVE ENERGY MEASUREMENT IN 3P4W MODE @50Hz				
Voltage Range (in V)	Voltage Value (in V)	Current Range (in A)	Current Value (in A)	Power Factor
250	240	1	1	UPF
250	240	1	1	0.5L
250	240	1	1	0.5C
250	240	2	2	UPF

250	240	2	2	0.5L
250	240	2	2	0.5C
250	240	2.5	2.5	UPF
250	240	2.5	2.5	0.5L
250	240	2.5	2.5	0.5C
250	240	5	5	UPF
250	240	5	5	0.5L
250	240	5	5	0.5C
250	240	10	10	UPF
250	240	10	10	0.5L
250	240	10	10	0.5C
250	240	30	30	UPF
250	240	30	30	0.5L
250	240	30	30	0.5C

**REACTIVE ENERGY MEASUREMENT IN 3P4W MODE
@50Hz (Clamp
Mode)**

250	240	50	50	UPF
250	240	50	50	0.5L
250	240	50	50	0.5C
250	240	60	60	UPF
250	240	60	60	0.5L
250	240	60	60	0.5C

ACTIVE ENERGY MEASUREMENT IN 1P2W MODE @50Hz

Voltage Range (in V)	Voltage Value (in V)	Current Range (in A)	Current Value (in A)	Power Factor
250	240	1	1	UPF
250	240	1	1	0.5L
250	240	1	1	0.5C
250	240	2	2	UPF
250	240	2	2	0.5L
250	240	2	2	0.5C
250	240	2.5	2.5	UPF
250	240	2.5	2.5	0.5L
250	240	2.5	2.5	0.5C
250	240	5	5	UPF
250	240	5	5	0.5L
250	240	5	5	0.5C
250	240	10	10	UPF
250	240	10	10	0.5L
250	240	10	10	0.5C
250	240	30	30	UPF
250	240	30	30	0.5L
250	240	30	30	0.5C

**ACTIVE ENERGY MEASUREMENT IN 1P2W MODE @50Hz
(Clamp Mode)**

250	240	50	50	UPF
250	240	50	50	0.5L
250	240	50	50	0.5C
250	240	60	60	UPF
250	240	60	60	0.5L
250	240	60	60	0.5C

