

TECHNICAL SPECIFICATION

FOR THE PROCUREMENT OF TEST EQUIPMENT
(SINGLE PHASE WATT-HOUR METER STANDARD)
(Class Accuracy 0.04%)

A. RATIONALE

The Consumer Affairs Service (CAS) is primarily responsible in handling consumer complaints and ensuring the adequate promotion of consumer interests pursuant to Section 41 of the Republic Act No. 9136, otherwise known as the Electric Power Industry Reforms Act of 2001 (EPIRA). It is also responsible in ensuring the accuracy of watt-hour meters used by all distribution utilities (DUs) under the jurisdiction of the Commission pursuant to Section 16 (d), (e), (f) and (g) of Commonwealth Act No. 146, otherwise known as the Public Service Act (PSA), to wit:

(d) To fix just and reasonable standards, classification, regulations, practices, measurements, or service to be furnished, imposed, observed and followed thereafter by any public service.

(e) To ascertain and fix adequate and serviceable standards for the measurement of quantity, quality, pressure, initial voltage and other condition pertaining to the supply of the products or service rendered by any public service, and to prescribe reasonable regulations for the examination and test of such product or service and for the measurement thereof.

(f) To establish reasonable rules, regulations, instructions, specifications, and standards, to secure the accuracy of all meters and appliances for measurement.

(g) To compel any public service to furnish, safe, adequate and proper service as regards the manner of furnishing the same as well as the maintenance of the necessary material and equipment.

Presently, the Commission's Visayas Area of Operation Division (VAOD) has only two (2) Single Phase Watt-hour Meter Standards (SPWMS), but only one (1) is operational.

To ensure the optimum accuracy of test of kWhr meters and other equipment being used by regulated entities, all these watt-hour meter standard should have a

maximum error of four hundredth percent (0.04%). Ideally, wathour meter standards should have an accuracy that is ten times (10x) better than the meter under test. This will ultimately provide consumer protection in terms of accuracy on kilowatt-hour registration of their electricity consumption. It is also imperative that the Commission, as the sole electricity regulatory body, should maintain sufficient number of wathour meter standards in the field offices in order to provide sufficient and appropriate service for meter testing and calibration needs of the distribution utilities and other regulated entities.

B. OBJECTIVE

The objective of the Consumer Affairs Service (CAS) is to augment the number of operational wathour meter standards in the Commission's Visayas Area of Operations Division (VAOD) to address the increasing number of acceptance and meter testing requests of stakeholders.

C. RESPONSIBILITIES OF THE WINNING BIDDER

The following are the responsibilities/obligations of the winning bidder:

1. It shall be responsible for the **safe-keeping of the items** until it reaches the final destination;
2. Provide **After Sales Service and Technical Support within seven (7) days for minor issues or those replacements for defective parts that are locally available parts and within ninety (90) days for major issues or those replacements for defective parts/items sourced outside the country.** Likewise, the winning bidder must keep an inventory of the spare consumable parts of the equipment;
3. Provide an updated **Calibration Certificate traceable to ILAC-MRA upon delivery and acceptance of the equipment;**
4. Conduct **one (1) Hands-On-Training in VAOD** for a **minimum of two (2) VAOD personnel within one (1) month from delivery or within two (2) weeks from the lifting local travel restriction;**
5. **Coordinate with the ERC Finance and Administrative Service-General Services Division (FAS-GSD) and Consumer Affairs Service-Meter Division (CAS-MD) at least three (3) days before the date of delivery** to the VAOD office; and

6. Provide **Certificate of Warranty for One (1) Year (at least) from the delivery and acceptance of the equipment.**

D. RESPONSIBILITY OF THE ERC

1. **Acknowledge receipt of item, after testing and acceptance by the ERC Technical Property Inspection Committee (TPIC),** including pertinent details such as quantity, date and condition of the items received; and
2. **Prepare payments due to the Winning Bidder after the delivery of the test equipment,** including the **updated Calibration Certificate** to the VAOD office in Cebu City.

E. SCHEDULE OF DELIVERY

The Winning Bidder should **deliver the equipment, including the updated Calibration Certificate at the Visayas Area Operations Division office** located at **Saint Mary's Drive, Banilad, Cebu City within ninety (90) calendar days from receipt of the Notice to Proceed (NTP).**

F. SPECIFICATIONS OF THE TEST EQUIPMENT (SINGLE PHASE WATT-HOUR METER STANDARD) (Class Accuracy 0.04%)

2 Sets to augment the equipment inventory of **VAOD Meter Laboratory**

Power Supply: 220 ~ 260 VAC, 50/60HZ or wider range

Over current and over voltage protection

System Accuracy: **0.04%** (Guaranteed)

Measurement Ranges

Current : 0.5 ~ 30 Amps or better

Voltage : 220 ~ 270 Volts or better

Frequency : 50/60 Hz.

Phase Angle : 0° ~ 359.99°

Power Factor: -1.0 ~ +1.0

Programmable Pulse Output

Complete set of stackable current & potential lead wires

Complete set of connectors & accessories

Optical & Visible Light Scanning Heads

Capable of Automatic % Error Calculation

Power Supply Cable

Carrying bag/Hard case is acceptable

User Manual
Warranty: at least One Year
After Sales Service and Technical Support
Updated Calibration Certificate traceable to ILAC-MRA
(to be provided upon delivery of the equipment)

G. MODE OF PROCUREMENT

The procurement shall be undertaken through **Competitive Bidding** pursuant to RA No. 9184 and its 2016 revised IRR.

H. FUND SOURCE and APPROVED BUDGET FOR THE CONTRACT

1. The fund for this engagement shall be sourced from the General Appropriations Act (GAA) for the fiscal year **2021** of the ERC.
2. The Approved Budget for the Contract for the project is **TWO MILLION FOUR HUNDRED THOUSAND PESOS (PhP2,400,000.00)**, inclusive of all government taxes, and other fees and charges.

I. PAYMENT SCHEME

1. The Total Contract Price which should not exceed the ABC of **TWO MILLION FOUR HUNDRED THOUSAND PESOS (PhP2,400,000.00)**. Payment shall be released **within thirty (30) days after final acceptance at the VAOD office and submission of the Certificate of Calibration** issued by the subject calibration laboratory.
2. Since the above payment shall be subject to the usual government accounting and auditing requirements, the Winning Bidder is expected to be familiar with the Government Accounting and Auditing Manual (GAAM).

J. ACCEPTANCE/REJECTION PERIOD

Testing/Inspection and Acceptance or Rejection: Within 15 calendar days from the actual delivery date, the ERC authorized representative shall test and inspect the equipment and indicate in the Inspection and Acceptance Report that equipment is in accordance with the required specifications, or if not, indicate in the said Report that there are parts or functionalities that need to be replaced or adjusted. The supplier shall be given a reasonable number of days to make the necessary replacement or adjustment. After which, the ERC authorized representative shall test and inspect the equipment again and either issue an Inspection and Acceptance Report stating that the equipment is in accordance with the specifications, or Reject the equipment if it is not found compliant with the required specifications.

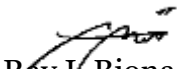
K. LIQUIDATED DAMAGES

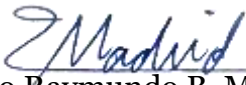
1. Where the service provider refuses or fails to satisfactorily complete the work within the specified contract time, plus any extension time duly granted and is hereby in default under the contract, the service provider shall pay ERC for liquidated damages, and not by way of penalty, an amount, as provided in the conditions of the contract, equal to one tenth (1/10) of one percent (1%) of the cost of the unperformed portion for every day of delay. The maximum deduction shall be ten percent (10%) of the amount of the contract, of which ERC shall have the discretion to terminate the contract without prejudice to any other action or remedy it may take to recover the losses incurred as a result of the service provider's failure/non-performance, including but not limited to forfeiture of performance security and/or blacklisting of the latter.
2. For entitlement to such liquidated damages, ERC need not prove the damages actually incurred. Said damages in any amount shall be deducted from any money due or which may become due the service provider under the Contract and/or collect such liquidated damages from the retention money or other securities posted by the service provider at the ERC's convenience.


L. RESERVATION CLAUSE

The Energy Regulatory Commission (ERC) reserves the right to reject any and all bids, declare a failure of bidding or not award the contract at any time prior to contract award in accordance with Section 41 of R.A. 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.

Prepared by:


Ray I. Biona
Engineer III


Isidro Raymundo B. Madrid
Engineer III


Ferdinand A. Salviejo
Engineer III