

**TECHNICAL SPECIFICATION**

**FOR THE PROCUREMENT OF TEST EQUIPMENT**  
**(SINGLE-PHASE WATTHOUR METER STANDARD)**  
**(ACCURACY CLASS 0.02%)**

**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 EPIRA or Republic Act No. 9136. It is also responsible in ensuring the accuracy of watthour meters used by all distribution utilities 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, 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 one (1) working Single Phase Watthour Meter Standards. While the Mindanao Area of Operation Division (MAOD) has four (4) units working Single Phase Watthour Meter Standard (WMS). All these WMS have a maximum error of four hundredth percent (0.04%). To ensure the optimum accuracy of test of kWhr meters and other equipment being used by regulated entities, these working WMS should be calibrated using a WMS as Transfer Standards with high accuracy measurements. These Transfer Standards, which shall have an accuracy of two hundredths percent

(0.02%), will be used only to test only working WMS of the Commission, and other WMS of DUs and other entities.

## **B. OBJECTIVE**

The objective of the Consumer Affairs Service (CAS) is to purchase a WMS with an accuracy class of two hundredth percent (0.02%) to standardize the meter laboratory set up in the Commission's Visayas and Mindanao areas of operation. The procurement of the WMS will ensure high accuracy test of meter standards which will ultimately benefit the end-users in terms of accuracy of their electricity consumption registration.

## **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 destinations;
2. Provide After Sales Service and Technical Support within seven (7) day for minor issues and within ninety (90) days for major issues. 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 of the equipment;
4. Conduct one (1) Hands-on-Training each in VAOD and MAOD for a minimum of three (3) VAOD/MAOD Personnel within one month from delivery, or within Two (2) weeks from the lifting local travel restriction;
5. Coordinate with the ERC General Services Division (GSD), the Meter Division (MD) at least three (3) days before the date of delivery to the VAOD and MAOD offices; and
6. Provide Certificate of Warranty for One (1) Year (at least).

## **D. RESPONSIBILITIES OF THE ERC**

1. Acknowledge receipt of items, 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;

2. Prepare payments due to the Winning Bidder after the delivery of the test equipment, including the updated Calibration Certificate to the VAOD and MAOD offices in Cebu City and Davao City, respectively; and

## **E. SCHEDULE OF DELIVERY**

The Winning Bidder should deliver the Equipment, including the updated Calibration Certificate, at the Visayas Area of Operation Division office, located at Saint Mary's Drive, Banilad, Cebu City, and at the Mindanao Area of Operation Division office, located at the Mezzanine Floor, Mintrade Building, Monteverde Ave. corner Sales St., Davao City within ninety (90) calendar days from receipt of the Notice to Proceed.

## **F. SPECIFICATION OF THE TEST EQUIPMENT SINGLE PHASE WATTHOUR METER STANDARD (Accuracy Class 0.02%)**

**2 Sets** to be designated as the Transfer Standard of **VAOD & MAOD**

Power Supply: 85 ~ 600 VAC, 60HZ or better

Fusible Power Supply

System Accuracy :  $\pm 0.02\%$  (Guaranteed)

Measurement Ranges

Current : 0.04 ~ 60 Amps or wider range, 1mA resolution

Voltage : 60 ~ 500 Volts or better

Frequency : 45 ~ 65 Hz.

Phase Angle :  $0^\circ \sim 359.99^\circ$

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

Weather-proof carrying bag

Instruction Manual

Updated Calibration Certificate traceable to an International Standard  
(to be provided upon delivery)

## **G. MODE OF PROCUREMENT**

The procurement shall be undertaken through Public 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 **2020** of the ERC.
2. The Approved Budget for the Contract for the project is **FOUR MILLION TWO HUNDRED THOUSAND PESOS (PhP 4,200,000.00)**, inclusive of all government taxes, fees and charges.

## **I. PAYMENT SCHEME**

1. The Total Contract Price which should not exceed the ABC of **FOUR MILLION TWO HUNDRED THOUSAND PESOS (PhP 4,200,000.00)**. Payment shall be released within thirty (30) days after final acceptance at the VAOD and MAOD offices 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 issue either an Inspection and Acceptance Report, if equipment is in accordance with the specifications, or a Notice of Test/Inspection Results, if 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, if the equipment is in accordance with the specifications, or Reject the equipment.

## **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.

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