

TECHNICAL SPECIFICATIONS
FOR THE PROCUREMENT OF
PORTABLE POWER QUALITY ANALYZER

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 quality of the supply of electric power delivered 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.

Distribution Utilities are required to comply with the Power Quality Standards specified in Article 3.2 of the Philippine Distribution Code (PDC) 2017 Edition. Power Quality is defined by the PDC as “the quality of voltage, including its Frequency and the resulting current, that are measured in the Distribution System during normal conditions”. The Power Quality Analyzer is a diagnostic tool that can aid planners and trouble shooter in finding solution to complex electrical circuit problems.

B. OBJECTIVE

The Consumer Affairs Service (CAS) objective is to proceed with the procurement of Portable Power Quality Analyzer to continue the assurance that the quality of the supply of electric power delivered by all distribution utilities to its consumers is compliant with the required standards. For this reason, the Meter Division (MD) endeavored to cause the procurement of an equipment that would provide valuable services to consumers by describing and solving Power Quality problems, which shall include investigation, recommending solutions, and implementing the recommended solutions using a system perspective to ensure power quality.

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 an updated Calibration Certificate traceable to an International Standards body upon delivery of the equipment;
3. Provide After Sales Service and Technical Support within five (5) years or within the economic life of the equipment;
4. Keep an inventory of consumables/ spare parts and to conduct repairs within seven (7) days from notification for minor issues or those replacements for defective parts that are locally available parts; or within ninety (90) days for major issues or those replacements for defective parts/items sourced outside the country;
5. Conduct Hand-on Training to a minimum of 5 MD Engineers within one month from delivery;
6. Coordinate with the ERC General Services Division (GSD), the Meter Division (MD) at least three (3) days before the date of delivery; and
7. Provide Certificate of Warranty for One (1) Year (at least).

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 item received;
2. Prepare payments due to the Winning Bidder after the delivery to the Main office and acceptance of the item.

E. SCHEDULE OF DELIVERY

The Winning Bidder should deliver to the ERC Main Office the Equipment, including the updated Calibration Certificate, within sixty (60) calendar days from receipt of the Notice to Proceed.

F. SPECIFICATIONS OF THE PORTABLE POWER QUALITY ANALYZER AND INCLUSIONS

1 set Portable Power Quality Analyzer with the following specifications:

1. Input Power: 120/240 VAC, 50/60Hz (or better)
2. Measurement Parameters:

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|-------------------------|------------------------|
| Power Parameters | Energy Parameters |
| RMS (Voltage & Current) | Sags/Dips/Swells |
| Rapid Voltage Change | Transients |
| Phase Angle Deviation | Unbalance (IEC / ANSI) |
| Waveform Capture | Frequency |
| Power Factor | Phase Angle |
| Demand Distortions | Harmonics |
3. Hand-held, Lightweight, & Easy to Set-up, Navigate & Operate
4. Communication via USB & Ethernet
5. 4 Voltage Channel & 4 Current Channel w/ 0.1% error of reading
6. Voltage Range: 0 ~ 1000 VAC/VDC
7. Current Range: 0 ~ 6000 A (CT dependent)
8. Colored VGA Backlit-Display
9. Weight: not more than 2.5 kgs
10. Complete set of Cables, Clips, Clamps & Accessories
11. Power Adapter & Battery Pack (8 hours run time on full charge)
12. Calibration Certificate traceable to an International Standard body (upon delivery)
13. Instruction Manual (soft and hard copy)
14. Certificate of Warranty for One Year (at least)

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 **ONE MILLION FIVE HUNDRED THOUSAND PESOS (PhP 1,500,000.00)**, inclusive of all government taxes, fees and charges.

I. PAYMENT SCHEME

1. The Total Contract Price which should not exceed the ABC of **ONE MILLION FIVE HUNDRED THOUSAND PESOS (PhP 1,500,000.00)**. Payment shall be released at the ERC Main office within thirty (30) days after the completion of delivery of the items, including the Certificate of Calibration issued by the subject calibration laboratory and final acceptance at the ERC Main office.
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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