



DEPARTMENT OF ENERGY
 (Kagawaran ng Enerhiya)
 Energy Center, Rizal Drive Bonifacio
 Global City, Taguig City, Philippines 1632

RFQ No.	RFQ-02-0101-2022-06-0204-0707-0091
Purchase Request No.:	02-0101-2022-06-0204

REQUEST FOR QUOTATION

Title of Procurement/End-user	: (re-posting) REPAIR, MAINTENANCE, AND CALIBRATION OF THE WATER CONDITIONING SYSTEM IN THE LATL CLOTHES WASHING MACHINE TEST FACILITY
Mode of Procurement	: Small Value Procurement (AMP53.9)
Bidding Terms	: Per Lot (1 Lot)
Delivery Terms/Schedule	: 120 days upon the receipt of job order
Delivery Location	: Department of Energy Main Office, BGC Taguig City
Payment Terms	: Payment shall be processed within thirty (30) days upon completion of delivery of all items or services, submission of all required documents and issuance of end-user's certificate acceptance.

Please quote your lowest price on the items/s listed below, subject to the compliance with the Terms of Reference and Specifications. Submit the quotation following the format of the Quotation Submission Form (Annex A) in a sealed envelope duly signed by your representative at the Procurement Management Division Office, 3rd Floor DOE Main Building, Department of Energy Rizal Drive, Energy Center-Bonifacio Global City, Taguig City or through email at the following address: bacsecretariat@doe.gov.ph not later than **12 July 2022, Tuesday at 5:00PM**. LATE SUBMISSION WILL NOT BE ACCEPTED.

Terms of Reference/Specifications																													
Lot No.	Description/ Specification:	Total ABC																											
Lot 1	<p>TERMS OF REFERENCE</p> <p>I. GENERAL</p> <p>The function of the water conditioning system of the Clothes Washing Machine Test Facility is to supply water used for clothes washing machine testing in compliance with the PNS IEC 60456. The system constantly measures the water pH, water conductivity, water pressure, and water temperature, and will act necessary steps to maintain that the laboratory supplied water complies with the requirements indicated below and will be reported every after-test series.</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Requirements</th> <th>Tolerance</th> </tr> </thead> <tbody> <tr> <td>Water pH level (at 20°C)</td> <td></td> <td></td> </tr> <tr> <td>• Hard water</td> <td>7.3-7.7</td> <td>--</td> </tr> <tr> <td>• Soft water</td> <td>8.0-8.5</td> <td>--</td> </tr> <tr> <td>Water conductivity</td> <td>150 µS</td> <td>±10%</td> </tr> <tr> <td>Water pressure</td> <td>240.0 kPa</td> <td>±50.0 kPa</td> </tr> <tr> <td>Water temperature</td> <td></td> <td></td> </tr> <tr> <td>• Cold water</td> <td>15-20°C</td> <td>±2.0°C</td> </tr> <tr> <td>• Hot water</td> <td>60°C</td> <td>±2.0°C</td> </tr> </tbody> </table> <p>For more information, attached is a copy of the pertinent sections of IEC 60456 for reference.</p>	Parameter	Requirements	Tolerance	Water pH level (at 20°C)			• Hard water	7.3-7.7	--	• Soft water	8.0-8.5	--	Water conductivity	150 µS	±10%	Water pressure	240.0 kPa	±50.0 kPa	Water temperature			• Cold water	15-20°C	±2.0°C	• Hot water	60°C	±2.0°C	870,000.00
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II. SCOPE OF WORK

The successful contractor shall be responsible for the following

- a. Conduct ocular inspection on site.
- b. Perform functional and operational tests of all pieces of equipment in the system.
- c. Conduct specific repair and/or replacement in the batching area:
 - Product pump control malfunction during automatic process
 - Water leak on the pipe going to mixing tank
 - Improvement of the program of PLC system
 - Replacement of defective sensors, transmitters, and relay modules
 - (1) 1 unit of pH sensor
 - (2) 1 unit of Conductivity sensor
 - (3) 1 unit of 3-9900.394 transmitter relay module
 - (4) 2 units of 3-9900-1P GF Signet transmitters
 - (5) 2 units of 3-9900.393 transmitter relay modules
 - (6) 1 unit of UNITRONICS M-90 PLC control, or latest equivalent.
- d. Conduct cleaning on dosing and pressure pumps, motors, and other accessories
- e. Calibration (from accredited laboratory), and conduct necessary adjustment, of the following measuring instruments:
 - 10 units of Burkert water flow meters
 - 10 units of FISCHER pressure meters
 - 1 unit of GF Signet batch flow meter
 - 1 unit of GF Signet 3-8750-2P pH/ORP transmitter
 - 1 unit of GF Signet 3-9900-1P GF Signet transmitter
 - 2 units of OMRON E5CN temperature controllers
- f. Replace/replenish chemicals and other consumable items, such as:
 - i. 1 kg of Sodium Hydrogen Carbonate
 - ii. 0.5 kg of Magnesium Sulfate
 - iii. 2 kg of Calcium Chloride Dihydrate
 - iv. 35 kg of Caustic Soda
 - v. 0.5 kg of Potassium Chloride
 - vi. 50 kg of Muriatic Acid
 - vii. 25 kg of Reverse Osmosis Antiscalant
 - viii. 10 kg of MC3 Reverse Osmosis Cleaner
 - ix. 10 kg of MC11 Reverse Osmosis Cleaner
 - x. 2 units of Float Switch
 - xi. 1 unit of Total Hardness Kit
- g. Conduct system input, output check, and provide necessary documentation and reports.
- h. Recommend preventive maintenance actions for the use of the system; and
- i. Provide calibration certificates and updated equipment and accessories literature as applicable.

III. TERMS AND CONDITIONS

- a. Price quoted must be firm and irrevocable and not subject to any change whatsoever, even due to the increase in the cost of raw materials/components and fluctuations in foreign rates and excise duties.
- b. Accessory warranty must be good for three (3) months and service warranty must be good for one (1) year from the final acceptance of the completely accomplished work. After the delivery of goods and services, it should be

	<p>guaranteed for trouble-free performance. In case of parts replacement, supplier should warrant that all components and accessories be new and of first quality according to specifications and shall be free of defects, and at the account of the contractor. The defects, if any, during the guarantee period are to be rectified free of charges by arranging free replacement whenever necessary.</p> <p>c. One hundred (100) percent of the contract price will be released by DOE within 30-45 days from satisfactory performance of equipment after completion/delivery of service and after issuance of certificate of acceptance. Satisfactory performance of equipment includes demonstration of acceptable equipment performance, as much as possible through conduct of test runs using standards of intended tests.</p> <p>d. DOE shall not provide accommodation, transportation nor shoulder any health requirements test/s (e.g. RT-PCR, Antigen, Rapid antibody) for the engineers/representatives for the performance and delivery of service. It is the absolute responsibility of the principal supplier/Philippine agent to make these arrangements.</p> <p>e. Delivery of the service must be within 120 days upon the receipt of job order.</p>	
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General Conditions:

1. Quotation shall be valid for sixty (60) days from submission
2. Sample/brochure of the item complying with the Specifications shall be submitted together with the quotation/proposal. Non-submission of actual sample/brochures in the proposal is a ground for disqualification. **(If applicable)**
3. The following documents shall be attached/included in the submission of proposal/quotation:
 - a) Mayor's / Business Permit
 - b) PhilGEPS Registration Number/Certificate
 - c) Income /Business Tax Return
 - d) Omnibus sworn Statement (Annex C)
4. Payment is through LDDAP through a Government Servicing Bank (GSB) and will be processed upon final acceptance of the end users and submission of complete documents. If not a GSB should shoulder all associated Bank Transaction Fee.
5. The Supplier shall clearly state the company name and account name for payment.
6. The price quoted is inclusive of all taxes and other charges.
7. The Supplier shall receive the Notice of Award and Purchase Order/Notice to Proceed within the required time under RA 9184 otherwise the Supplier may be sanctioned under the provision of RA 9184 and its IRR.