Date: August 01, 2024
Quotation No.: 2024-011

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REQUEST FOR QUOTATION

Please quote your lowest price for the **System Design, Supply, Installation, Integration, Programming, Testing and Commissioning of Wireless Mini SCADA Master Station (Office) and Remote Terminal Unit (RTU) at Poblacion 2 Pumping Station,** subject to the conditions also listed below, stating the shortest time of delivery and submit your duly signed quotation on a sealed envelope not later than **5:00 p.m. of 07August 2024** to the following address:

Bids and Awards Committee Secretariat
Peñaranda Water District
Gomez St., Poblacion 2
Peñaranda, Nueva Ecija
Telefax: (044) 940-4049
E-mail Address: pwd1987@yahoo.com.ph

(signed)
AVELINO G. ABELLO
BAC Chairperson

NOTE:
1. As a government agency, Peñaranda Water District (PeñWD) shall deal only with legitimate suppliers/contractors that issues BIR-registered official receipts and suppliers must passed the eligibility requirements for accreditation of **PeñWD**. Accreditation checklist may be downloaded at PeñWD website.
2. All entries shall be typewritten.
3. Quoted prices shall be inclusive of applicable taxes and shall be firm and valid for a period of at least thirty (30) days from the date of receipt of quotation & shall be binding upon the supplier within the period.
4. Delivery period shall be within thirty (30) calendar days from receipt of Notice of Award/Purchase Order.
5. Certificate of Site Inspection shall be submitted with the quotation.
6. Warranty shall be for a period of two (2) years for parts and service.
7. PeñWD reserves the right to post-qualify any supplier and/or to reject any or all submitted quotations.
8. The P.O. shall be awarded to the lowest calculated responsive bid; delivered items are subject to inspection, with payment processing to commence only after acceptance by the end-users.
9. Valid PhilGEPS Registration Certificate shall be submitted with the quotation.
10. Company Profile, DTI business name registration or SEC registration Certificate, BIR/VAT Registration with TIN shall be submitted with the quotation.

11. For Distributor- Valid Certificate of Distributorship of products being offered and/or Bureau of Product Standard (BPS) Certification shall be submitted with the quotation.
12. For Local Manufacturer- ISO Certification and Bureau of Product Standard (BPS) Certification shall be submitted with the quotation.
13. Terms of payment is within thirty (30) calendar days after the date of inspection and acceptance.
14. Total Approved Budget for the Contract ₱ **624,624.00.**
15. **Request for Quotation and Quotation Form** may be purchased and/or downloaded by interested Bidders at PhilGEPS or PeñWD website on **August 03-07, 2024,** provided paymen**t** of nonrefundable fee of One Thousand Pesos (P1,000.00) was made to the PeñWD cashier or by bank transfer. Bank details for the payment will be provided upon request.

BILL OF QUANTITIES

NO.	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST
1.	System Design, Configuration and Programming	1	Lot		
2.	24 Inches Monitor, UPS and Other Accessories	1	Lot		
3.	Mini SCADA Remote Terminal Unit (RTU), 24 VDC	1	Set		
4.	Mini SCADA License and Programming	1	Set		
5.	Pressure Transmitter, 0-10 Bar; 4-20 mA	1	Unit		
6.	Control Wiring and Appurtenances	1	Lot		
7.	GPRS Router	1	Unit		
8.	Testing, Commissioning Including Warranty Period	1	Lot		
				TOTAL AMOUNT	

TOTAL AMOUNT IN WORDS:

Name of Bidder　　　:　　_____

Delivery Period　　　:　　_____

Warranty　　　　　:　　_____

Price Validity　　　:　　_____

After having carefully read and accepted your conditions above, I/We quote you on the item at prices noted above.

_____
Print Name / Signature

_____
Tel. No. _____
Fax No. _____
E-Mail Address: _____

_____
Date　　_____
TIN No. _____

TERMS OF REFERENCE

SYSTEM DESIGN, SUPPLY, INSTALLATION, INTEGRATION, PROGRAMMING, TESTING AND COMMISSIONING OF WIRELESS MINI SCADA MASTER STATION (OFFICE) AND REMOTE TERMINAL UNIT (RTU) AT POBLACION 2 PUMPING STATION

Design Requirement:

Mini SCADA Master Work Station (OFFICE) and RTU, Remote Telemetry Unit (PUMP STATION) Visualization, Monitoring, Data Logging and Controlling over the Internet, LAN/WLAN, and GPRS.

Design Considerations:

1.0 Master Work Station:

Master Station: Visualization, Monitoring, Controlling and Reporting over Internet via Desktop Computer to handle RTU, Remote Telemetry Unit (PUMP STATION) parameters

2.0 Pump Stations:

Controlling: Variable Frequency Drive start/run/off status, Variable Frequency Set up

Monitoring: Flow Rate, Pressure Rate, VFD Frequency Status, Current and Voltage status

Data Logging: Graphical data reporting, Daily/weekly monitoring, Alarm and Status Feedback with real time clock, RTC

Communication: Internet access thru antenna, Broadband, Ethernet and WIFI, 3G,4G, GPRS Router, or LAN/WLAN

3.0 Master and RTU Overview

Mini SCADA Master Work Station (OFFICE)

-Mini SCADA Work Station Server Package, Equipped with Wireless SCADA, Unlimited Tags, Engineering + Operation, License Software for comprehensive computer based operator interface with MS Windows platform for visualization, monitoring, data logging and controlling, graphical/typical process displays with schematic and dynamic variables of analog values, digital states and alarm condition with fully configurable system as per process data thru its alarm logging, event logging, annunciation of flow rate, pressure rate, level transmitter, motor pump failure, on/off events with date and time stamp.

Details:

➢ 1 Lot – Wireless Mini SCADA Software, unlimited tags, Engineering + Run time License
➢ 1 Lot – Wireless Mini SCADA software set up and programming
➢ 1 Set – Zero Client monitor expansion device
➢ 1 Unit- 24" Monitor

4.0 Remote Telemetry Unit (Pump Station)

-Remote Telemetry Unit, RTU for SCADA in auto/manual control, status and alarm feedback of VFD motor/pump. Monitoring and data logging of pressure, electromagnetic flow meter and voltage/current instrument/device. Expandable PLC assembly, in FRC cable connection and is composed of mini Programmable Logic Control (PLC) DC Base module, 24 VDC voltage unit, with 8 Digital Input and 8 Relay Output, Extension Analog input module with Voltage and Current Input, 0-10 VDC and 4~20 mA, 2 or 4 wired transmitter, Extension 8 Digital Input with 8 Relay output channel (5 amperes 250 VAC) Extension Analog Output Module current output and voltage output signal, MODBUS RTU Communication (Master/Slave) with Serial Communication RS 485 cable with built in RS 485, RS232 and Ethernet communication port, RJ 11 port for Server unit. Programming Language in IEC-61131-3 standard based on Windows Environment. Support Offline simulation and Online debugging. PLC/Server unit is integrated in either PSTN/Broadband, 3G,4G, GPRS or LAN/WLAN for wired or wireless push/pull program access. Pre-wired control component such as mini circuit breaker, sets of contact relay with socket, sets of HOA, sets of terminal blocks, accessories as per electrical control ladder wiring diagram. The ROS panel assembly is adaptable and can be integrated with the existing VFD Control Panel. The RTU must have or must be internet accessed. Pump station system operation is preprogrammed according to predetermine time in daily, weekly operations.

Details:

1 pc. – RTU MODBUS Server Module with RS 232, RS 485, USB, and Ethernet

1 unit – Micro PLC Base Module (Master/Slave)
    32 Bit RISC Processor with built in RTC for program
    Include power loss protection, with serial
    Communication RS 485, RS 232, RJ 11, Micro USB, Ethernet Port

1 unit – 8 Channel Analog Input Module, signal 0-10 VDC / 4~20 mA, 2 or 4 wired
    transmitter

1 unit – 4 Channel Analog Output Module, 4-20 mA

1 unit – 16 Channel Digital Input Module, 12/24 VDC

1 unit - 16 Channel Relay Output Module, rated 5A 250 VAC

1 lot – SCADA and RTU Programming and Run time license set up

1 lot – PLC set up and programming

1 unit – Power supply input 120/230 VAC, output 24 VDC, 5A, 200 watts

1 pc – Power supply: 230 VAC/24 VDC, 10A

1 set – Electrical control component and accessories

1 lot – Shielded wire and Control cable for device and instrument

1 pc – NEMA Control Plastic Enclosure

1 lot – Control wiring, termination and integration

1 unit – GPRS Router

5.0 Provisions of Technical Documents

- ➢ Instrumentations and Control Wiring Diagram
- ➢ Operation Instruction Manuals
- ➢ Instruments and Device Manuals

6.0 Warranty – Twenty-Four Months from date of acceptance