



REQUEST FOR PROPOSAL (RFP 06-22)

Installation of a Supervisory Control and Data Acquisition (SCADA) System for the City Municipal Water System.

1. GENERAL

The City of Folly Beach (City) seeks proposals for the furnishing and installation of a SCADA system for its municipal water system. The City of Folly Beach Utilities Department (Department) provides potable water to roughly 2600 residents and municipal facilities. The purpose of this Request for Proposal (RFP) is to solicit proposals from firms that are most suited to performing the described scope of work for the City. The City is particularly interested in firms that are known for their quality of work, timeliness of completion, and cost-effectiveness in the product and/or services provided.

2. SCOPE OF WORK

The successful bidder shall provide all labor and materials for the installation of the SCADA system. The SCADA system provided shall provide real-time monitoring and control, from multiple workstation locations and via smartphones/tablets, of the following areas:

- Two high service pumps at the underground storage tank.
- Water level of both the underground and elevated storage tanks.
- Remote operation of fill valves for both the underground and elevated storage tanks.
- New control valve at 10" existing water main (valve to be installed by Department).
- Whole system water pressure.

3. PROPOSAL PROCESS

- A copy of this packet can be requested, or an intent to bid can be obtained from Wes Graham at: wgraham@follybeach.gov
- Questions may be emailed to Kyle Sullivan at: ksullivan@cityoffollybeach.com. Answers will be provided in an addendum on all who have requested the packet prior to. Please note there is no pre-bid meeting for this RFP.
- Proposals may be submitted by hand delivery or by email/dropbox/or similar method. Proposals must be received no later than 2:00 p.m. on April 21, 2022. Sealed proposals may be hand-delivered to the Robin Brooks at 21 Center Street, 2nd Floor, or mailed to P.O. Box 48, Folly Beach, SC 29439, Attn: Robin Brooks. Any proposals received after this date and time will

be returned to the sender. All proposals must be signed by an official agent or representative of the company submitting the proposal. Proposals must be clearly labeled as RFP 06-22 SCADA System.

- The proposals will be opened at 2:05 p.m. on April 21, 2022. All submitters are invited to be present or send a representative, but attendance is not required.
- Evaluation of proposals will be conducted by City staff from April 22, 2022, through April 29, 2022. The selection decision for the selected bidder will be by City Council resolution at a regularly scheduled Council Meeting on May 10, 2022. The winning bidder will be notified after the City Council Meeting.

- BID REQUIREMENTS

The proposal must include the following documents as applicable to be considered responsive. Please mark each section accordingly within the proposal. Under the provisions of the Freedom of Information Act, all proposals, excluding pending legal actions, will become public information. Offerors must clearly mark as “CONFIDENTIAL” each page of their proposal that could be exempt from disclosure. The City reserves the right to make the final determination.

- Signed Offeror Representations (form in bid packet) signed by a principal of the firm or an officer authorized to bind the corporation.
- Qualifications to meet the City’s objectives. This shall include the size of the business, the office location from which service is provided.
- Pricing quotes within proposal must indicate equipment costs by major component and labor costs listed separately for: installation, setup, testing, and training of City staff.
- Prior work performed, including names and contact information for a minimum of three professional references.
- Indicate and list any pending legal actions.
- Provide a current copy of IRS Form W9.
- Outsourcing Statement: If your organization must outsource or subcontract any work to meet the requirements contained herein, this must be clearly stated in the proposal. Costs should be clearly described for any outsourced or subcontracted work.

All contractual terms and conditions will be subject to review by the City of Folly Beach. This request does not commit the City to the award of a contract, or to pay any costs incurred in the preparation of a response to this request. The City of Folly Beach reserves the right to reject, in whole or in part, any bid submitted which, in the judgment of the City of Folly Beach, would not be in its best interest. The City also reserves the right to waive minor deficiencies or reject any or all proposals.

- OTHER REQUIREMENTS OF THE SUPPLIER

If the contract is awarded, the supplier must be prepared to provide and agree to the following, at his or her own expense, prior to beginning work and at all times during performance of services:

- Commercial General Liability Insurance on an occurrence basis in an amount equal to \$1,000,000 for each occurrence and must include the following coverages: (i) completed

operations coverage, (ii) blanket contractual coverage, including both oral and written contracts, (iii) personal injury coverage.

- Indemnification and hold harmless documentation for any and all claims arising out of its performance of its duties under this contract.
- Compliance with all applicable federal, state and local laws, ordinances and regulations.
- The bidder selected will engage in a contractual agreement based on this proposal prior to any work being performed.
- Any modifications to the contract shall be in writing and signed by both parties.
- Obtaining a City of Folly Beach Business License

- PROPOSAL EVALUATION CRITERIA

The primary intent with regards to the procurement of these services is to obtain what the City would consider to be the best package of product and service. This includes overall suitability, a clear and organized proposal, price competitiveness, quality, and timeliness of previous work performed. Bidders will further be evaluated on their experience, qualifications, and references.



City of Folly Beach

Vendor Name: _____

Offeror Representations

I certify that:

- I am an agent of the company authorized to make representations on behalf of the company.
- I have read and understand the solicitation.
- I have not in any way colluded with anyone to obtain information that would give me an unfair advantage over others or set pricing for the proposal.
- I (alongside the Company) am qualified to perform the services required by the solicitation.

Authorized Signature for Bidder/Offeror & Date

Before me, the Undersigned, a Notary Public, for and in the County and State aforesaid, personally appeared _____ and made oath.

Sworn to and Subscribed before me

this _____ day of _____, 2022

Notary Public in and for South Carolina



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Installation of a Supervisory Control and Data Acquisition (SCADA) System for the City Municipal Water System.

ATTACHMENT A. SPECIFICATIONS/REQUIREMENTS

SCADA System to provide monitoring and control to the following items;

Two high Service pumps

Tank Levels

Remote operation of a Tank fill valve.

Provide new 10" EBV. Valve will be installed by COFB

Provide the following RTU's for the new system

WTP RTU

RTU to be located inside water plant office

Elevated Tank – Repeater

RTU to be located inside elevated storage tank

Valve Vault RTU

RTU to be located on stainless steel Unistrut adjacent to the valve vault.

FCC License for 450 Mhz radios

WTP RTU Details

- Power – 120vac
- 15a Main CB
- Enclosure Nema 12 Painted Steel
- PLC – Scadapak 474 PLC – No Equal
- Radio – MDS Ordit 450 Mhz– No Equal
- 120vac Surge Arrestor
- 24VDC PS with battery backup
- 5 Port Ethernet Switch
- Qty 2 AB 30mm 3 Pos Green Lighted Switch
 - Pump 1 H O A
 - Pump 2 H O A
- Analog Surge Supp on all Analog Inputs
- Interposing Relays on all Digital IO

- AB 30mm RED LED Lamp – System Fault
- Provide GFCI on 4A CB for PLC Programming
- Provide additional terminal block for future additions.
- Contegra SLX130 Level Transducer – In Ground Tank – No equal
- 3/8 120vac ASCO Solenoid Valve installed on tank fill valve.

IO List

- Digital Inputs
 - Pump 1 Switch in Hand
 - Pump 1 Switch in Auto
 - Pump 2 Switch in Hand
 - Pump 2 Switch in Auto
 - Pump 1 Status
 - Pump 2 Status
 - Pump 1 Fault
 - Pump 2 Fault
 - Reset
 - Tank Fill Valve – Closed
 - Spare Relay
 - Spare Relay
- Digital Outputs
 - Pump 1 Run Command
 - Pump 2 Run Command
 - Fault Light
 - Tank Fill Valve – Open Command
 - Spare Relay
- Analog Inputs
 - Tank Level
 - Force Main PSI
 - Spare Surge Supp.

Valve Vault RTU Details

- Power – 120vac
- 20 amp SP Main CB
- Enclosure Nema 4X 304 SS with Dead front panel
- PLC – Scadapak 474 PLC – No Equal
- GE MDS Orbit 450 Mhz radio – No Equal
- 120vac Surge Arrestor
- 24VDC PS with battery backup
- 5 Port Ethernet Switch
- Qty 1 AB 30mm 3 Pos Green Lighted Switch
 - Valve Open – Auto - Close
- Analog Surge Supp on all Analog Inputs

- Interposing Relays on all Digital IO
- Provide GFCI on 4A CB for PLC Programming
- Provide 10a CB for Valve Actuator Power
- Submersible PSI transducers – KSPI Model #700 1% Accuracy
 - screwed into the side of the control valve to monitor upstream and downstream PSI

IO List

- Digital Inputs
 - Valve Switch in Open
 - Valve Switch in Auto
 - Valve Switch in Close
 - Valve Feedback - Open
 - Valve Feedback - Closed
 - High Water Level
 - Spare Relay
- Digital Outputs
 - Valve Open Command
 - Valve Close Command
 - Spare relay
- Analog Inputs
 - Upstream Force Main PSI
 - Downstream Force Main PSI
 - Spare Surge Supp.

Provide and install 10" Gate valve with electric actuator on water main next to existing valve vault.

10" Mueller Gate Valve

Electric Actuator

120vac Controls

Digital Controls for opening and closing

Digital feedbacks for verifying valve is 100% open and closed.

Elevated Storage Tank RTU (Repeater) - Details

- Power – 120vac
- 15a Main CB
- Enclosure Nema 12 Painted Steel
- PLC – Scadapak 470 PLC – No Equal
- Radio – MDS Ordit 450 Mhz– No Equal
- 120vac Surge Arrestor
- 24VDC PS with battery backup
- Analog Surge Supp on all Analog Inputs
- Interposing Relays on all Digital IO
- Provide GFCI on 4A CB for PLC Programming

- 450mhz Dipole Omni Antenna.
- Mounted to top of elevated tank
- 7/8 Helix Cable with grounding

IO List

- Digital Inputs
 - Power Verification
 - Spare Relay
- Digital Outputs
 - Spare relay
- Analog Inputs
 - Tank Level
 - Spare Surge Supp.

SCADA Software

Trihedral VT SCADA Software – No equal

Qty 1 1000 tag Full Development Runtime License

Qty 1 1000 Tag Alarm Notification

Qty 2 1000 Tag Thin Client for remote access

Provide computer with Windows 10 Pro

I7 Processor

2TB hard drive SSD

32 Gigs of Ram

4GB Video Card

2 – 27” Flat Monitors

Computer Screens for SCADA System

System Overview

Individual Lift Station Pages

WTP Page

Water Main Valve Control Page