



Financial Management Department
Purchasing Division
1112 Manatee Ave W Suite 803
Bradenton, FL 34205
Phone: (941) 749-3014
www.mymanatee.org

November 21, 2014

TO: All Interested Bidders
SUBJECT: Invitation for Bids #14-3134CD
ABW Filter Rehabilitation at the Southwest Water Reclamation Facility

ADDENDUM #1

Bidders are hereby notified that this Addendum shall be acknowledged on page Bid Form-1 of the Bid Form and made a part of the above named bidding and contract documents. Bids submitted without acknowledgment of the Addendum will be considered incomplete.

The following items are issued to add to, modify, and clarify the bid and contract documents. These items shall have the same force and effect as the original bidding and contract documents, and cost involved shall be included in the bid prices. Bids to be submitted on the specified bid date, shall conform to the additions and revisions listed herein.

1. **CHANGE** Article 1.05. Bid Item 6- Structural Rehabilitation of Filters No. 2, 3, 4, and 5, on page 4 of Section 011500 in the Technical Specifications to read as follows:

BID ITEM 6 - STRUCTURAL REHABILITATION OF FILTERS NO. 2, 3, 4, AND 5

Payment for all work included under this Bid Item shall represent full compensation in accordance with the unit price bid for the structural rehabilitation of Filters No. 2, 3, 4, and 5, including concrete structural repair, all as shown on the Contract Drawings and/or called for in the Contract Specifications, ready for approval and acceptance by the County. Bid item 6.a Repair Concrete Surface at Rail Anchorage Points shall be measured in square foot. Each repair location shall be 2 feet wide, 2 feet long and 3 inches deep. Bid item 6.b Repair Expansion Joints shall be measured in each joint. Each repair shall cover the whole length of the expansion joint. The unit price shall also include protection of existing structures, and any off-site material required to establish original site conditions. Measurement for periodic payments of this unit bid item will be in accordance with the approved Schedule of Values, to be supplied by the Contractor in accordance with the Contract Documents.

2. **DELETE** Bid Form page Bid Form-2 and **INSERT** the REVISED Bid Form page Bid Form-2 that is attached to this Addendum #1.
3. **CHANGE** the Due Date and Time to **Wednesday, December 3, 2014 at 3:30 PM.**

The following questions have been presented by potential bidders:

Question #1: Rail replacement is listed in both Bid item #3 and Bid item #6. Which item should the rail be included in?

Response #1: Replacement of rail is included in Item #3 only.

Question #2: On Sheet S-03: is detail 0330-143 intended to be for the removal of existing anchor bolts for the rail system? If not can the bolts be cut or burned flush?

Response #2: Yes, use the detail for removal of existing anchor bolts.

Question #3: In the Summary of Work Section 01 01 00 Paragraph 1.01A Note 11 and Bid item #6 is the Structural Repair limited to the Rail System? How would this be quantified for bidding purposes? In Spec Section 03 01 32 Paragraph 1.02B indicates the type of "Defective Areas" including cracks. How would this be quantified for bidding purposes?

Response #3: See items #1 and #2 of this addendum.

Question #4: In Spec Section 03 01 32 Paragraph 3.02B Note 1 indicates use of 8000 psi water blasting, Note C in the same section refers to being permitted or practicality. Is it required or permitted?

Response #4: Use 8000 psi water blasting is required unless the Owner agrees that it is not practical.

Question #5: Is the filter media considered hazardous and require disposal at a licensed disposal site?

Response #5: No. County landfill accepts this material.

Question #6: Can you confirm that the Existing SCADA system is capable of receiving the input from the New Control Panels for Filters No. 2 thru 5 and the Modifications to Panels on Filters No. 6 and 7?

Response #6: Yes, existing system controls remain unchanged.

Question #7: Drawings and specifications indicate concrete repairs for spalling concrete. As bidding contractors, it will be difficult to quantify how much repair is needed. Typically, the contractors are required to bid spalling repair as a unit price. Can the county please revise the bid form to identify concrete repair as a unit price so each contractor is bidding the same amount of repair?

Response #7: See items #1 and #2 of this addendum.

Question #8: Can the contractor leave the media on site, or does it need to be hauled to landfill?

Response #8: In accordance with Specification 02 41 00 (Demolition) Part 3.01.A.1.a.2, the media removed from the filters must be hauled to the landfill.

Questions #9 thru #24 address Manufacturer exceptions/clarifications:

Question #9: Electrical 26 05 01 – 5 1.05.B; Materials and equipment manufactured within the scope of standards published by Underwriters Laboratories, Inc. shall conform to those standards and shall have an applied UL listing mark or label.

Aqua's Exception/Clarification

The new control panels shall bear a UL label. Field UL inspection and labeling, if required, shall be the responsibility of the installing contractor for control panels on Filters 6 and 7 receiving field rehab.

Response #9: Agree. Only the new panels for Filters 2 through 5 shall have UL inspection and labeling.

Question #10: Process Instrumentation and Control Systems (PICS) 40 90 00 – 10 1.08.E.3; Factory Demonstration Test

Aqua's Exception/Clarification

Aqua's intended Factory Demonstration Test Protocol for the new control panels on Filters 2, 3, 4 and 5 is as follows: The factory testing consists of point to point testing of all wiring prior to application of power. Intended supply voltage shall be applied to the enclosure. All components shall be tested for proper operation and calibration. The timer function and level controls shall be functionally checked. All components shall be checked to confirm proper mounting specifications have been followed. Enclosure shall be inspected for defects and repaired if necessary. All labeling of wires and devices are correct, properly installed and clean.

Please confirm this protocol is acceptable.

Response #10: The protocol is acceptable with the addition of the following sentence: control logic shall be checked by simulation of the field signals.

Question #11: Process Instrumentation and Control Systems (PICS) 40 90 00 – 10 1.09.A; Maintenance Service Agreement

Aqua's Exception/Clarification

Please delete reference to the Maintenance Service agreement in its entirety.

Response #11: Delete the requirement for Maintenance Service Agreement. The control panels shall be covered in the manufacturer's warranty.

Question #12: Process Instrumentation and Control Systems (PICS) 40 90 00 – 12 2.02.B; Provide means for Plant operators to control filter backwash processes, both automatically and manually.

Aqua's Exception/Clarification

The existing control panels for Filters 3, 4 and 5 do not allow for either remote start, or manual start to initiate backwash. Please confirm that this functionality is required as it would represent an additional cost.

Response #12: The existing panels at Filters 3, 4 and 5 have Filter Operational Description that is included in the Specification as Supplement 1 to section 40 90 00. It describes three backwash filter operational modes: automatic, manual, and indexing. The three modes shall be included. Remote start is not required.

**Question #13: Process Instrumentation and Control Systems (PICS) 40 90 00 – 13
2.02.C; Suppressors on Analog Signal Lines**

Aqua's Exception/Clarification

Filters 3, 4 and 5 do not use any analog signals. Please confirm that the existing Filters 2, 6 and 7 do not use analog devices. Confirm if suppressors are required for discrete input and outputs of the filter control panels.

Response #13: Filters 2, 3, 4, and 5 are getting new panels from the manufacturer so these new devices will not have analog devices and do not require suppressors. Filters 6 and 7 only need very minor modifications that would allow the re-installation of skimmer pumps. The minor changes do not warrant adding suppressors and those two panels do not have analog devices either (only switches). The suppressors are not required if analog devices are not used.

**Question #14: Process Instrumentation and Control Systems (PICS) 40 90 00 – 13
2.05.A; General**

Aqua's Exception/Clarification

Please confirm if electrical transient protection is required for 480 V applications. If so, then please define the manufacturer and model desired, or define if a Class 1 or Class 2 suppression device is required.

Response #14: Surge suppressor Make and Model #: Advanced Protection Technologies Model APT SPDde S50A480V3D, for a 480 V three phase 3 W power supply or equal. Suitable for mounting inside a panel.

**Question #15: Process Instrumentation and Control Systems (PICS) 40 90 11 – 5 1.04.C;
Reproducible copies of diagrams**

Aqua's Exception/Clarification

Note that the reproducible copies will be provided as AutoCAD digital documents.

Response #15: Accepted.

**Question #16: Process Instrumentation and Control Systems (PICS) 40 90 11 – 6 2.01.B;
Materials: Screwed or riveted, laminated plastic**

Aqua's Exception/Clarification

Screws and rivets would compromise the NEMA rating of the filter control panel. In lieu of screws and rivets, the nameplates shall be adhesive backed, or secured under switch or light bezel.

Response #16: Accepted.

**Question #17: Process Instrumentation and Control Systems (PICS) 40 90 11 – 6 2.02.A;
All panels shall bear UL label stating "LISTED ENCLOSED INDUSTRIAL CONTROL PANELS."**

Aqua's Exception/Clarification

UL labeling of Filter Control Panels 6 and 7 shall be the responsibility of the installing contractor.

Response #17: UL labeling of Filter Control Panels 6 and 7 is not required.

Question #18: Process Instrumentation and Control Systems (PICS) 40 90 11 – 7 2.02.B;

Panel Temperature Control

Aqua's Exception/Clarification

The existing panels for Filters 3, 4 and 5 were not supplied with temperature control devices. Please confirm if temperature control devices are required. Temperature Control would not be field retrofitted in to Filter Control Panels 6 and 7.

Response #18: It is accepted.

Question #19: Process Instrumentation and Control Systems (PICS) 40 90 11 – 7 2.02.D;
Breaker Manufacturers and Products

Aqua's Exception/Clarification

Circuit breakers will be Square D model FAL. Please confirm this is acceptable.

Response #19: It is accepted.

Question #20: Process Instrumentation and Control Systems (PICS) 40 90 11 – 8 2.02.D;
Control Circuit Switching Relay, Nonlatching
Control Circuit Switching Relay, Time Delay
Counters

Aqua's Exception/Clarification

Control Circuit Switching Relays shall be Allen Bradley model 700-HK.
Time Delay Relays shall be ATC model 319.
Counters/Timers shall be model ATC 365C.
Please confirm this is acceptable.

Response #20: It is accepted.

Question #21: Process Instrumentation and Control Systems (PICS) 40 90 11 – 9 2.02.D;
Internal Panel Lights

Aqua's Exception/Clarification

The existing control panels for Filters 3, 4 and 5 do not have internal panel lights. Please confirm if internal panel lights are required. Internal panel lights will not be field retrofitted in to the control panels for filters 6 and 7.

Response #21: It is accepted.

Question #22: Process Instrumentation and Control Systems (PICS) 40 90 11 – 10
2.03.B; Do not use a starter smaller than NEMA size 1.

Starters shall have a minimum of two NC and two NO auxiliary contacts in addition to the seal-in contact. Provide each combination starter unit with its own control power transformer with Class B insulation and 1220 volt secondary.

Aqua's Exception/Clarification

It is the intent to supply NEMA size 0 starters for the pumps. This is in accordance with the required amperage for the application. Auxiliary contacts are not typically supplied. Individual transformers are not typically supplied for individual starters.
Please confirm if this is acceptable.

Response #22: It is accepted.

Question #23: Process Instrumentation and Control Systems (PICS) 40 90 11 -
Supplement – 1 B.3; Lights: Long life LED style with push to test and integral
transformer for operation from 120V ac, unless otherwise specified.

Aqua's Exception/Clarification

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Lights are standardly supplied as incandescent, and are not push to test. Please confirm this is acceptable.

Response #23: It is accepted.

Question #24: Process Instrumentation and Control Systems (PICS) 40 90 11 -10 2.02.E; Factory Finishing Stainless Steel and Aluminum: Powder epoxy white

Aqua's Exception/Clarification

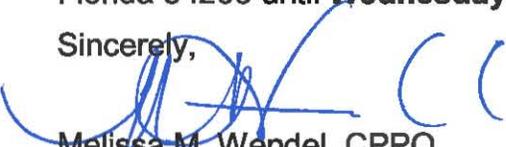
The existing control panels for Filters 3, 4 and 5 are not painted. Please confirm if the new control panels need to be painted white. The existing control panels for Filters 6 and 7 will not be painted in the field.

Response #24: It is accepted.

END OF ADDENDUM #1

Bids will be received at Manatee County Purchasing, 1112 Manatee Avenue West, Bradenton, Florida 34205 until **Wednesday, December 3, 2014 at 3:30 PM.**

Sincerely,



Melissa M. Wendel, CPPO
Purchasing Official

BID FORM

(Submit in Duplicate)

ABW FILTER REHABILITATION AT THE SOUTHWEST WATER RECLAMATION FACILITY Bid Based on Completion Time of 330 Calendar Days

ITEM NO.	DESCRIPTION	UNITS	QTY.	BID PRICE PER UNIT (\$)	TOTAL BID PRICE (\$)
1	Mobilization	LS	1	\$	\$
2	Demolition and Cleaning of Filters No. 3, 4, and 5 Underdrain Systems	LS	1	\$	\$
3	Furnish And Install Underdrain Systems, Filter Media, Control Panels, Skimmer Assemblies, Backwash Shoe Assemblies, Backwash Shoe Tensioning Assemblies, Bridge Drive Assemblies, Bridge Idler Assemblies, Festoon Cable Systems, Rails, Rail Caps, Limit Switches, Level Sensors, And Limit Switch Trip Peg Assemblies In Filters No. 3, 4, And 5.	LS	1	\$	\$
4	Furnish and Install A Control Panel, Limit Switch, Level Sensor, Limit Switch Trip Peg Assembly, Skimmer Assembly, Festoon Cable System, Rails, Rail Caps, and Wheels For Filter No. 2	LS	1	\$	\$
5	Furnish and Install Limit Switches, Festoon Cables, Limit Switch Trip Peg Assemblies and Skimmer Assemblies For Filters No. 6 and 7	LS	1	\$	\$
6	Structural Rehabilitation of Filters No. 2, 3, 4, And 5				
6.a	Repair Concrete Surface at Rail Anchorage Points (2ft x 2 ft x 3 inch repair at each location is measured as 4 sq. ft.)	SF	384	\$	\$
6.b	Repair Expansion Joints (whole length of each joint)	EA	4	\$	\$
7	Seal Bypass Channels of Filters No. 1, 2, 3, 4, 5, 6 and 7	LS	1	\$	\$
8	Cleanup and Demobilization	LS	1	\$	\$
	TOTAL BASE BID - Based on Completion Time of 330 Calendar Days				\$
9	CONTRACT CONTINGENCY WORK (USED ONLY WITH COUNTY APPROVAL)			10% OF TOTAL BASE BID	\$
	TOTAL OFFER with Contract Contingency - Based on Completion Time of 330 Calendar Days				\$

Bidder Name: _____

Authorized Signature: _____