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July 24, 2018

ADDENDUM #1 to the University of Florida ITN19KO-102, Waste Wastewater Reclamation Facility Headworks Mechanical Screen and Related Services, scheduled to be opened on **August 3, 2018 at 3:00 PM** at the University of Florida, Elmore Hall Conference Room, Radio Road, Gainesville, Florida.

This addendum shall be considered part of the Contract Documents for the above mentioned **ITN19KO-102** as though it had been issued at the same time and incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original document, this addendum shall govern and take precedence. All other terms, conditions, and regulations will apply.

This addendum consists of:

- Responses to questions and inquires submitted prior to July 17, 2018 at 5:00PM.

Sincerely,

Karen Olitsky

Karen Olitsky, Procurement Agent III
Procurement Services

Please acknowledge receipt of Addendum #1 by signing below, and returning this addendum with your proposal. Failure to include addendum with your proposal may result in rejection.

_____ _____
Signature Company Name

_____ _____
Company Address City/State/Zip

Questions and Answers

Q1. The bid document says that installation of the new screening equipment is to be provided "by others", the included drawings show a number of other services that are required, including coatings, metal work, etc. Is this bid intended to be purely for the purchase of the equipment only with no additional services, or are there other elements to the project as shown on the drawings?

A1. The drawings are being included so as to provide the prospective bidder additional information related to the layout, approximate dimensions, etc. The ITN is only for the mechanical screen system, washer compactor unit, and associated equipment that is listed within the Section 11331 and Section 11332 specifications.

Q2. Please confirm that manufacture is to provide only two ultrasonic level transmitters per 11332 2.04.F for screen operation. Specification calls out both ultrasonic level transmitters and float switches. Dwg M1.01 and Specification (11332 2.04.F) calls out Ultrasonic level Transmitter LIT-100 and LIT-101. Dwg M1.02 calls out Float Level Switch LS-100 and LS-101. This should be changed to Ultrasonic level Transmitter LIT-100 and LIT-101. Spec 11332 2.04.B.1 references a float switch. This should be revised from "float switch senses high water level to" to "upstream level sensor senses high water level…"

A2. The equipment manufacturer shall provide both two level transmitters (one upstream and one downstream of the mechanical screen) and two level float switches (one upstream and one downstream of the mechanical screen). Drawing M1.01 already calls out LIT-100 and LIT-101. Drawing M1.02 shows the two level float switches LS-100 and LS-101. The level transmitters are not called out on M1.02 for clarity, see Note 1 on Drawing M1.02. The mechanical screen shall be controlled by the level transmitters (as primary control), while the float switches shall serve as backup should the level transmitters fail.

CHANGE Section 11332, 2.04, B., 1. to read as follows:

"1. In AUTO, the controls of the mechanical screen shall be wired such that the level transmitter shall act as the primary controls. If either level transmitter(s) should fail, the level float switches shall initiate the cleaning cycle of the mechanical screen (without any operator intervention). In AUTO, the mechanical screen shall be controlled by the water level transmitters. Screen operation shall be started when the water level transmitters monitor a certain water level difference (primary), or when the upstream float switch senses high water level (secondary), or when a certain time has passed since the last operation of the screen. Screen operation shall be stopped when the water difference is below a certain value, or when the float switch does not indicate high water alarm, or when a certain run time has expired (if operation was started by timer)."

Q3. Please provide a list of who will participate in the selection committee.

A3. It is anticipated the evaluation committee will be made up of the following:
- Assistant Director, Facilities Operations, Facilities Services (Water & Waste Water Distribution)
- Assistant Director, Facilities Operations, Facilities Services (Chiller Water & Steam Distribution)
- Maintenance Superintendent, Waste Water, Facilities Services (Water & Waste Water Distribution)

– Technical/subject matter experts

Q4. Drawing M1.01 shows the main control panel is located outdoors. The main control panel requires a VFD, UPS battery backup, PLC, and other temperature sensitive components. We recommend adding a requirement to the specifications for the manufacturer to supply an air conditioner and sunshield for the control panel.

A4. The equipment manufacturer shall be responsible for providing either a NEMA 4X air conditioner or NEMA 4X forced air ventilation, or other means of ventilation in order to maintain the proper temperature operating range for the equipment contained with the local control panel, while maintaining the NEMA 4X rating.

Q5. Specification 11332-2.04.D requires a NEMA 4X, Polycarbonate E-Stop. Please confirm this will be in a non-hazardous area.

A5. The E-stop shall be Class I Division I.

CHANGE Section 11332, 2.04, D. to read as follows:

"A Class I Division I polycarbonate emergency stop push button station shall be mounted on the frame of the unit with a ½" NPT conduit connection."

Q6. Section 11331, 1.09, A, 3 - Spare parts for guide bars need to match the quantities provided in approved designs to allow for 4 or 6 as applicable

A6. CHANGE Section 11331, 1.09, A., 3. to read as follows:

"3. Four (4) or Six (6) Guide Bars (as applicable)"

Q7. Section 11331, 1.09, A, 6 - Can the proximity switch spare have a designation of "as applicable"?

A7. CHANGE Section 11331, 1.09, A., 6. to read as follows:

"6. One (1) Proximity switch (as applicable)"

Q8. Section 11331, 2.01, B, 2 - The pickle and passivation method specified for the stainless steel assembly does not match what is allowable per specification section 11332 as industry standard which is to allow for "pickle and passivation with an acid wash per ASTM A380."

A8. Pickle/passivation with acid wash is considered acceptable.

CHANGE Section 11331, 2.01, B., 2. to read as follows:

"2. All stainless steel surfaces shall undergo a passivation treatment that includes a full submergence into nitric acid and hydrofluoric acid or treatment with an acid wash in accordance with ASTM A 380

using a pickling bath of nitric acid and hydrofluoric acid to remove any residues that may be present on the material as a result of forming, manufacturing, or handling."

Q9. Section 11331, 2.02, A, 4 – Can the screen washer body design be revised to a quantity of 4 or 6 wear guide bars as applicable?

A9. CHANGE Section 11331, 2.02, A., 4. to read as follows:

"4. The screenings washer body shall be equipped with not less than four (4) guide bars made of abrasion resistant carbon steel (CHT series 400) Hardox 400 Abrasion resistant plate. The guide bars shall be bolted from the outside of the tube for easy access and removal. The guide bars shall be nominally 12 inches length, 1" wide and 1/4" thick. Welded guide bars shall not be approved."

Q10. Section 11331, 2.02, B, 2 – Can the outside diameter be revise to allow 7.7" - 8.125" OD screw in the compactor?

A10. CHANGE Section 11331, 2.02, B., 2. to read as follows:

2. The screw flights shall have a minimum thickness of 3/16" to ½" in the trough area, a thickness of 13/32" in the perforated washing zone, and a thickness of 25/32" in the compression zone. The outside diameter of the screw shall range from 7.5" – 8.5" and shall include a 6" flight pitch in the trough area and washing zone, and a 4-3/4" pitch in the compaction zone.

Q11. Section 11331, 2.02, B, 4 - Is a "stainless steel backed brush with nylon bristles or leather seals" allowable?

A11. CHANGE Section 11331, 2.02, B., 4. to read as follows:

"4. A stainless steel backed brush with nylon bristles or leather seals shall be attached to the shafted screw with set screws for the full length of the perforated washing zone."

Q12. Section 11331, 2.02, C, 3 - Can the last sentence be revised to read "The second solenoid valve (if applicable)"?

A12. CHANGE Section 11331, 2.02, C., 3. to read as follows:

"3. The main wash water supply line to the washer compactor unit shall be installed by the Contractor as shown on the Drawings. Sufficient quantities of normally-closed solenoid valves with maximum operating pressure of 140 psi shall be furnished and installed. The solenoid valves shall be independently controlled by the PLC in the control panel. One solenoid valve shall supply wash water directed against the rotation of the screw flights in the inlet hopper and into the compaction zone of the washer compactor. If applicable, the second solenoid valve shall direct wash water to the drain pan beneath the screenings washer body."

Q13. Section 11331, 2.02, D, 2 - Can the drain connection be revised to list a minimum 3.5" drain both to accommodate standard pipe sizes?

A13. CHANGE Section 11331, 2.02, D., 2. to read as follows:

"2. The drain pan shall include one (1) 3/4" threaded inlet connection for wash water from the manifold to flush the trough for cleaning purposes. A minimum 3-1/2" diameter drain connection shall be provided to discharge the drained water back into the channel on the downstream side of the screen."

Q14. Section 11331, 2.02, F, 1 – Can the motor horsepower be revised to a minimum of 2 HP?

A14. CHANGE Section 11331, 2.02, F., 1. to read as follows:

"1. The drive unit shall be a gear motor rated for continuous duty and shall be selected to match the requirements of the equipment provided. The drive motor shall be a maximum of 5 HP, totally enclosed fan cooled (TEFC) unit designed for application in a Class 1, Division 2 area. The motor shall be a constant speed unit rotating at 1760 rpm, and shall be powered by 230/460 VAC, 60 Hz, 3 phase power.

Q15. Section 11332, 2.02, B, 7 - Does the owner want to allow sprockets made of "polyamide" plastic material instead of high strength carbon steel as a minimum which would provide much longer life expectancy on a high torque component?

A15. The intent of the specification is to specify minimum requirements. Since each equipment manufacturer may fabricate its equipment with different materials, if a polyamide material is standard, then the polyamide material shall be provided. If the polyamide material is an "optional/upgrade" item, the equipment manufacturer shall designate this as part of the ITN response and provide the additional cost as a separate line item.

Q16. Section 11332, 2.02, B, 8 - Does the owner want to allow for a cast iron lower sprocket drive shaft that will be subject to direct wastewater flows on a regular basis?

A16. The intent of the specification is to specify minimum requirements. Since each equipment manufacturer may fabricate its equipment with different materials, if a stainless steel drive shaft is standard, then stainless steel shall be provided. If stainless steel is an "optional/upgrade" item, the equipment manufacturer shall designate this as part of the ITN response and provide the additional cost as a separate line item.

Q17. Section 11332, 2.02, C and C, 1 - Method of brush adjustment needs to be firmly specified because the self-adjusting brush is an option as a cost adder from some manufacturers. All manufacturers should be required to provide manual adjusting brush on base bid and self-adjusting brushes considered as an adder after selection. Also the option to provide just a spray bar needs to be removed with the phrase and/or changed to and. If provision for just a spray bar is allowable

removal rates will greatly decrease from the stapling effect of screenings that can only be removed by a mechanical brush.

A17. We understand that depending on the equipment manufacturer, the mechanical screen may be equipped with a manually adjusted brush with spray bar, a self-adjusting brush with spray bar, or a spray bar only. The intent of the specification is to allow whichever is the manufacturer's standard means to clean the screenings from screen. If a self-adjusting brush is considered an "optional/upgrade" item, the equipment manufacturer shall designate this as part of the ITN response and provide the additional cost as a separate line item. However, in all cases, a spray bar is required.

Q18. Section 11332, 3.01 - We would recommend that the owner/engineer specify a minimum of 1 trip, 3 full days onsite for the factory startup technician per screen installation to ensure proper mechanical/structural checks of the installation are complete as well as normal startup procedures.

A18. CHANGE Section 11332, 3.01, A., 1. thru 3. to read as follows:

"1. One (1) day for installation supervision, inspection, and certification of installation.

2. One (1) day for functional testing upon startup.

3. One (1) day for the training of operating personnel."

Q19. We would like to request a bid extension of 1 week for the bid date, if possible.

A19. The proposal due date will remain August 3, 2018 at 3:00 PM.