SAN ANTONIO WATER SYSTEM PURCHASING DEPARTMENT

Issued By: D. Anthony Rubin **Date Issued: August 15, 2018**
BID NO.: 18-18106

FORMAL INVITATION FOR BIDS
CONTRACT FOR THE PURCHASE AND INSTALLATION OF WELL PUMPS AND MOTORS AT H2OAK BRACKISH GROUNDWATER DESALINATION PLANT
ADDENDUM NO. 1

Sealed bids addressed to the Purchasing Director, San Antonio Water System, 2800 US Hwy 281 North, Administration Bldg., 5th Floor, San Antonio, TX 78212 will be received until **3:00 p.m., August 24, 2018** and then publicly opened and read aloud for furnishing materials or services as described herein below,

The San Antonio Water System Purchasing Department is willing to assist any bidder(s) in the interpretation of bid provisions or explanation of how bid forms are to be completed. Assistance may be received by visiting the Purchasing Office in the SAWS Main Office, 2800 US Hwy 281 North, San Antonio, TX 78212, or by calling (210) 233-3819.

(Contractor's Insurance Requirements Attached)

This invitation includes the following:

Invitation for Bids
Terms and Conditions of Invitation for Bids
Specifications and General Requirements
Price Schedule

The undersigned, by his/her signature, represents that he/she is authorized to bind the Bidder to fully comply with the Specifications and General Requirements for the amount(s) shown on the accompanying bid sheet(s). By signing below, Bidder has read the entire document and agreed to the terms therein.

Signer's Name: _____ Firm Name: _____
(Please Print or Type)

Address: _____

_____
Signature of Person Authorized to Sign Bid

City, State, Zip Code: _____

Email Address: _____ Telephone No.: _____

Fax No.: _____

Please complete the following:
Prompt Payment Discount: _____% _____days. (If no discount is offered, Net 30 will apply.)

Please check the following blanks which apply to your company:
Ownership of firm (51% or more):
___Non-minority ____Hispanic ___African-American ____Other Minority (specify) _____
___Female Owned ___Handicapped Owned ___Small Business (less than $1 million annual receipts or 100 employees)
Indicate Status: ___Partnership ___Corporation ____Sole Proprietorship ____Other (specify) _____
Tax Identification Number:_____

To report suspected ethics violations impacting the San Antonio Water System, please call 1-800-687-1918.

This **Addendum no. 1** is being issued to revise the bid opening date from Thursday, August 23, 2018; 3:00 PM to **Friday, August 24, 2018; 3:00 PM.** Additionally, the scope and price schedule are being revised

IT IS NECESSARY TO RETURN THIS ADDENDUM TOGETHER WITH YOUR ORIGINAL BID DOCUMENT.

Addendum 1 is issued to perform the following:

- **REPLACE** the first two paragraphs of the SCOPE with the following paragraphs:

  The San Antonio Water System (SAWS) is soliciting bids for the replacement, and lowering of seven (7) line shaft turbine well pumps for production wells 5, 6, 7, 8, 9, 11, and 12 at the H_2Oaks Brackish Groundwater Desalination plant. Replacement of the pumps includes the purchase, delivery, installation, and field testing of seven (7) vertical turbine, line shaft well pumping units. **The pumping units include, but are not limited to, column piping, line shafts, pumps, motors, and all fittings and ancillaries, required for a complete pumping unit that meets the field testing requirements. The new pumps will be installed at a lower elevation in the wells. The existing column pipe and well discharge head are to be reused. Additional column pipe, all new line shaft, lineshaft couplings, bearing retainers, and line shaft bearings will be required. Existing column pipe information is provided in the specifications. The existing 250 HP motors may also be used if they meet the requirements for the replacement pumps, existing motor information is provided in the specifications.** The CONTRACTOR is also responsible for removal of the existing pumps and complete installation of the new pumps and motors, connecting to the existing discharge piping, and connecting the existing lubrication system. SAWS will be responsible for disconnecting the existing electrical supply and reconnecting the electrical supply to the new equipment.

  Delivery date for all pumps and electric motors, additional pump column, shafting, bearings, and other required appurtenances shall be no more than 12 weeks after receipt of the SAWS Purchase Order, and installation shall be completed within **30 days of delivery.** Failure to deliver and install all components specified herein to the production wells 5, 6, 7, 8, 9, 11, and 12 at the H_2Oaks Brackish Groundwater Desalination plant at 4588 Hardy Road, Elmendorf, TX, 78112, by the established date will result in a deduction of $100.00 per day past the established completion date from the total bid price. Performance level shall meet specifications contained herein. All shipping, delivery, installation, and testing costs shall be included in the bid.

- **REPLACE** the paragraph provided in Section VI.2 of the 'Specification' with the following paragraph:

  "The proposed pumps need to be operated in 'preferred operating regions' for primary design point, secondary design point 1, secondary design point 2, and secondary design point 3. The proposed pumps need to be operated in 'allowable operating regions' for secondary design point 4, and secondary design point 5."

- **Replace** item 6 in Section VII.A of the specification in its entirety and **replace** with the following:

  5. The pump bowls for BGD 6, 7, 8, 9, 11, and 12, shall be Cast iron, ASTM A48, Class 30. **The pump bowls for BGD 5, shall be cast 316 stainless steel, ASTM A351 CF8M.** All bowl castings shall be free of blow holes, sand holes and other detrimental defects. They shall be accurately machined with register fit circles. All bowls should be of the flanged type construction (except 6-inch and 8-inch bowls, which may be of the threaded type).

- **REPLACE** item 8 in Section VII.A of the specification in its entirety with the following:

  8. **Pump supplier must also provide a type 304 stainless steel cone strainer and tail piece on the pump suction. The tail piece may be coated steel, same at the column pipe, but must provide a**

smooth waterway entrance to the impeller and has integral splitters to reduce inlet swirl and entrance losses.

- **ADD the following items 9 and 10** in Section VII.A of the specification:

  9. Pump bowl wear rings shall be constructed of 400 series stainless steel.

  10. Pump bowl bearings shall be constructed bronze backed rubber.

- **REPLACE** paragraph VII.B.1 of the specification with the following:

  1. **Impeller shall be constructed of bronze ASTM No. B584-C90300.**

- **REPLACE** paragraph VII.B.6 of the specification with the following:

  6. Bronze ASTM B271-C90300 impeller wear rings shall be provided.

- **ADD item 7** in Section VIII.A of the specification

  7. Pump supplier must also provide a type 304 stainless steel cone strainer and tail piece on the pump suction. The tail piece may be coated steel, same at the column pipe, but must provide a smooth waterway entrance to the impeller and has integral splitters to reduce inlet swirl and entrance losses.

- **REPLACE** the paragraph IX.E.1 of the specification with the following:

  1. An adapter plate must be provided, if required to adapt to the existing pump discharge head.

- **REPLACE Table 1-A (Design Points for the Proposed Pumps) with the attached Table 1-A**

- **In Table 1 –B (Information of Key Components at the Well Heads), REPLACE the term, 'Existing Well Casing ID (in)' with the term, 'Existing Well Casing OD (in)'.**

- **REPLACE line 1 in the Item 1 Price Schedule with the following:**

BGD-05 **(Type 316 Cast Stainless Bowls)**	1	LS	$	$

- **REPLACE Item 2 of the Price Schedule with the following:**

PRICE SCHEDULE

2	Additional Column Piping: Fabricate, deliver (includes coating), and install with existing column pipe in with specifications				
	Description	Total **Proposed Linear ft.**	Unit	Unit Price	Total
	~~BGD-05~~		LF	$	$
	~~BGD-06~~		LF	$	$
	~~BGD-07~~		LF	$	$
	~~BGD-08~~		LF	$	$
	~~BGD-09~~		LF	$	$
	~~BGD-11~~		LF	$	$
	~~BGD-12~~		LF	$	$
	*Price for Additional Coated 8" Column Pipe if required.	20	EA	$	$
	TOTAL for Item 2				$

*Quoted price is for additional required column pipe to replace any **existing** column pipe that may not be corroded and not useable. Cost for any additional required column must be approved in advance by SAWS and will be added to the total bid amount at the end of the project.

TABLE 1-A: DESIGN POINTS FOR THE PROPOSED PUMPS

Pump	Primary Design Point (Full Speed Continuous Flow)			Secondary Design Point 1 (Reduced Speed Continuous Flow) [See NOTE 1]			Secondary Design Point 2 (Reduced Speed Continuous Flow) [See NOTE 1]			Secondary Design Point 3 (Reduced Speed Continuous Flow) [See NOTE 1]			Secondary Design Point 4 (Reduced Speed Short Term Intermittent Flow) [See NOTE 2]		Secondary Design Point 5 (Reduced Speed Short Term Intermittent Flow) [See NOTE 2]	
	Flow GPM	TDH (ft)	Min Eff (%)	Flow GPM	TDH (ft)	Min Eff (%)	Flow GPM	TDH (ft)	Min Eff (%)	Flow GPM	TDH (ft)	Min Eff (%)	Flow GPM	TDH (ft)	Flow GPM	TDH (ft)
BGD-5	900	951	75	900	607	75	450	607	70	450	951	70	600	450	600	794
BGD-6	800	942	75	800	654	75	450	654	70	450	942	70	600	502	600	790
BGD-7	1000	860	75	1000	685	75	450	685	70	450	860	70	600	551	600	726
BGD-8	900	911	75	900	678	75	450	678	70	450	911	70	600	509	600	742
BGD-9	800	932	75	800	723	75	450	723	70	450	932	70	600	578	600	788
BGD-11	800	966	75	800	774	75	450	774	70	450	966	70	600	609	600	802
BGD-12	800	965	75	800	772	75	450	772	70	450	965	70	600	593	600	786

NOTES:

1. Pump Supplier must confirm pump can operate at reduced speed to meet the design conditions.
2. Pump will be required to run as needed basis (approximately once in every 72 hours) at specified intermittent flow conditions for approximately 1 hour. Pump Supplier to confirm pump can operate at reduced speed to meet the design conditions, without damaging the pump.
