

**BEAVER COUNTY CLERK
KELLY YEOMANS
P. O. BOX 338
BEAVER, OKLAHOMA 73932
PHONE 580 625-3151**

TO WHOM IT MAY CONCERN:

Bids will be received until **July 31, 2020 at 5:00 P.M.** in the Beaver County Clerk's Office of the Beaver County Courthouse, Beaver, Oklahoma.

Said bids will be publicly opened and considered by the Board of Beaver County Commissioners in the Commissioner's Office on the **3rd day of August, 2020 at 10:00 A.M.** with the right being reserved to reject any or all bids.

The following criteria should be met when submitting a bid:

1. The bid shall be made on the enclosed "Invitation to Bid" and the Affidavit of Non-Collusion must be signed and notarized.
2. All prices quoted shall be F.O.B. Beaver County.
3. Place your bid in a sealed envelope clearly marked, "**SEALED BID #1**". This ensures that the bid will not be voided due to accidental opening.
4. On all bids requiring services or contract labor, proof of liability insurance with at least \$1,000,000.00 liability and Workmen's Compensation is required. If you cannot furnish these you must furnish us with a Certificate of Non-Coverage.

NOTE: ALL BID PROPOSALS WILL BE DEEMED INVALID AND THEREFORE REJECTED WHICH DO NOT CONTAIN THE "INVITATION TO BID" AND THE SIGNED AND NOTARIZED "NON-COLLUSION AFFIDAVIT".

Thank you for your cooperation and participation in this bidding procedure. Should you have any questions, please feel free to contact the Beaver County Clerk's Office at (580) 625-3151.

Respectfully,

Kelly Yeomans
Beaver County Clerk

Kelly Yeomans, Beaver County Clerk
COUNTY PURCHASING OFFICE
P.O. Box 338
Beaver, Oklahoma
Phone: (580) 625-3151

INVITATION TO BID

7/20/2020
1 OF 7

PLEASE REVIEW TERMS AND CONDITIONS ON REVERSE SIDE RELATING TO SUBMISSION OF THIS BID.

Notarized Affidavit completions and signature required on reverse side.

BID NUMBER	BID CLOSING DATE AND HOUR	REQUIRED DELIVERY DATE
#1	July 31, 2020 @ 5:00 P.M.	

TERMS:	DATE OF DELIVERY:
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Item	Quantity	Unit of Issue	Description	Unit Price	Total
			The Board of County Commissioners will open sealed bids for New Water Meters and Radio Read System on behalf of Turpin Water Rural Dist. #1, as per the attached specifications Bids must be received in the County Clerk's Office by July 31, 2020 Bids will be opened on August 03, 2020 at 10:00 A.M. The Board reserves the right to reject any or all bids.		

TERMS AND CONDITIONS

1. Sealed bids will be opened in the Commissioner's Conference Room, Beaver County Courthouse, Beaver, Oklahoma, at the time and date shown on the invitation to bid form.
2. Late bids will not be considered. Bids must be received in sealed envelopes (one to an envelope) with bid number and closing date written on the outside of the envelope.
3. Unit prices will be guaranteed correct by the bidder.
4. Firm prices will be F.O.B. destination.
5. Purchases by Beaver County, Oklahoma, are not subject to state or federal taxes.
6. This bid is submitted as a legal offer and any bid when accepted by the County constitutes a firm contract.
7. Oklahoma laws require each bidder submitting a bid to a county for goods or services to furnish a notarized sworn statement of non-collusion. A form is supplied below.
8. Bids will be firm until _____
(Date)

AFFIDAVIT: I, the undersigned, of lawful age, being first duly sworn on oath say that he (she) is the agent authorized by the bidder to submit the above bid. Affiant further states that the bidder has not been a party to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding; or with any state official or employee as to quantity; quality or price in the prospective contract or any other terms of said prospective contract; or in any discussion between bidders and any state official concerning exchange of money or other thing of value for special consideration in the letting of a contract; that the bidder/contractor has not paid, given or donated or agreed to pay, give or donate to any officer or employee of the State of Oklahoma (or other entity) any money or other thing of value, either directly or indirectly in the procuring of the award of a contract pursuant to this bid.

Subscribed and sworn before this _____ day
of _____ 20_____.

My commission expires _____

NOTARY PUBLIC (CLERK OR JUDGE)

(SEAL)
 Firm: _____
 Signed by: _____ Title: _____
 Print Name: _____
 Address: _____ Phone: _____
 City: _____ State: _____
 Zip: _____

NOTE: Other terms and conditions can be added at the discretion of the county officer.

Request for Bid

Specifications are as Follows:

Turpin RWD #1 hereafter referred to as the District, is seeking Request for Bids to supply the District with new water meters and radio read system. We desire to have installed a drive-by read system.

General Specifications

- A. All equipment bid shall be new, the best of its respective kind and free from corrosion, scratches and other defects.
- B. All bid prices are to be delivered in a sealed envelope plainly marked: Turpin RWD #1.
- C. District reserves the right to accept or reject all or any bids.

Technical Specifications

Water meters (for sizes up to 2")

- A. Water meters shall be solid state, battery operated electromagnetic flow measurement system with a hermetically sealed, glass covered, and electronic register with a programmable 9-digit display and must conform to AWWA Standard C-700 and C-710 or the latest revision thereof. All water meters shall be equipped with an absolute encoder Electronic Communications Register (ECR) and using a TR/PL connection between the meter and the endpoint. All meters shall be of the same manufacturer.
- B. Cases:
 - A. The register and measuring element will be an integrated unit housed within a thermal plastic external casing. The integrated unit shall not be removable from the external housing.
 - B. All meters shall have cast on them the size and direction of water flow through the meter.

C. Sealed Register:

- A. The register must be an electronic device encapsulated in glass with 9 programmable digits utilizing a liquid crystal display (LCD).
- B. The register shall have indicators for flow direction, empty pipe, battery life and unit of measurement.
- C. Registration shall be in gallon.
- D. Residential Register must pass AMR reading resolution down to $.1(1/10^{\text{th}})$ of a US gallon.
- E. The register shall not be removable from the measuring chamber.
- F. The register shall utilize a magnetic coupling technology to connect to a touch read, radio read or fixed base meter reading system in either an inside or pit set installation.

D. Measuring Chamber

- A. The measuring chamber shall be made of a non-corrosive, lead-free fiber reinforced, PPS (polyphenylene sulfide) based resin.
- B. A battery powered magnetic flow sensor utilizing silver/silver chloride electrodes will be utilized to measure the velocity of the water which is linear proportional to the volume.
- C. The measuring element will have no moving parts.
- D. The flow-tube must utilize remnant field technology to ensure continuous sampling can be conducted not impacting battery life.
- E. The magnetic field must be reversed each time a pulse of energy is emitted to magnetize the material, thereby inducing voltages of opposite polarity on each field flip and eliminating the effects of electrode offset which can interfere with measurement accuracy. Front end amplifier design and sigma-delta analog to digital conversion contribute to improved low flow measurement accuracy.

Warranty

- A. As a minimum, the meters accuracy shall be warranted for Twenty (20) years from the date of shipment for defects in materials and workmanship. Meter must maintain New Meter Accuracy standards for twenty (20) years from date of factory shipment. Battery warranty for twenty (20) years from date of shipment (15 years Full replacement and 5 years prorated).

Radio Technical Specifications

- A. Radio Frequency Water Meter Transmitters will have the availability to read meters equipped with absolute encoder registers using a vehicle interrogation unit.
- B. Radio Read system must utilize a true two-way (interrogate and respond) communication protocol that enhances system integrity and reliability.
- C. Function:
 - a. The Transmitter will be the interface between the encoded register and the radio interrogation unit.
 - b. Transmitter will power up when a valid alert signal is received from the reading interrogation units.
 - c. Transmitter must have capability to utilize a reading cycle code.
 - d. Transmitter will have a fix factory set non-programmable identification number to ensure identity of the Transmitter in the Radio Read System.
 - e. Transmitter will have the capability to store a defined programmable class code, which can be used to separate different classes of meters.
 - f. Transmitter to have a single or dual port capability. Dual port would allow for two meters to utilize on Transmitter.
 - g. Transmitter must have the capability of migrating into a fixed base solution.
 - h. Transmitter must have the capability of offering leak detection/continuous consumption monitoring.
 - i. Transmitter must be able to indicate that there has been an occurrence of continuous low for a field programmable period of time (minimum 24 hours). Once communicated to the interrogation device, the leak detection indicator in the MXU must either reset if there is no leak/continuous low currently or continue to stay set if a leak/continuous low is still present. The Transmitter must offer hourly readings stored internally for a rolling 30 days.
 - j. Transmitter and Meter must be manufactured by one company. Partnered (radio/meter) solutions will not be accepted.
 - k. Transmitter types that will NOT be accepted. Any transmitter which counts or has a counter built into the design. These units can become "out-of-sync" with the register and must be synchronized if a break between the register and transmitter occurs.
 - l. Transmitter must transmit 2 WATTS of power.
 - m. Transmitter must utilize a protected Licensed Frequency.
- D. FCC Regulations
 - a. All equipment must comply with current FCC requirements, which includes proper labeling of the Transmitter. Equipment must utilize a Licensed FCC Frequency.

Vehicle Drive-by System

- A. Equipment:
 - a. System will collect and store meter readings automatically by utilizing a Radio Frequency by simply driving down the District's roads at a minimum of 40 MPH.
 - b. The Drive-by package will include the following:
 - i. Laptop with applicable software including mapping.
 - ii. Vehicle transceiver unit.
 - iii. Magnetic antenna
 - iv. Power cable
 - v. Connectors for all the above
 - vi. Carrying case
 - c. Drive-by system will provide the capability to read Transmitter's in either a geographic mode or blind mode.
 - d. Drive-by will/can be powered from any vehicle that has a 12 volt power system.
- B. Software
 - a. The software must operate on a Microsoft Windows Professional version 10.
 - b. Shall be menu driven using pull down menus or ribbon.
 - c. Must be able to integrate more than one type of meter reading system into one package.
 - d. Software shall be a basic package and require no special customization.
 - e. Must be able to split routes and combine split routes with other routes.
 - f. Software shall include management reports for all the meter reading systems. Reports must be selectable by the District. Required reports but not limited to:
 - i. Master Route
 - ii. Non-route
 - iii. Non-read
 - iv. Route notes
 - v. High/Low
 - vi. Consumption
 - vii. Register Malfunction
 - viii. Transmitter Status
 - g. Software must have a minimum of (1) year of technical support which can be renewable annually.
- C. Training:
 - a. The manufacturer shall provide the District training from an authorized representative. In addition to the distributor will be available to coordinate any additional on-site training needed, until the customer was comfortable with the solution. Distributor training will not be limited in time. Training is required until owner is comfortable with system.

Warranty

Complete details of applicable warranties for all meters and metering equipment bid shall be submitted by the vendor with the bid form.

Bid Schedule- Pricing to be Good for (6) Months

<u>Item</u>	<u>Description</u>	<u>Quantity</u>	<u>Installed Price Each</u>
1.	¾-inch meter	100	\$ _____ Each
2.	1-inch meter	25	\$ _____ Each
3.	1 1/2 -inch meter	12	\$ _____ Each
4.	Transmitter	137	\$ _____ Each
5.	Annual Software Support @ Maintenance		
6.	Vehicle Drive-by System to include:		
	a. Reading equipment		
	b. Programing equipment		
	c. Software		
	d. County Map		
	e. Installation Configuration		
	f. Training		
	Total for System		\$ _____ System Package
	TOTAL BID PRICE		\$ _____