

**BID DOCUMENTS
AND
TECHNICAL SPECIFICATIONS**

**REQUEST FOR BIDS
FOR THE**

**SVGMD MAGNETIC FLOW METER PURCHASE
AS PART OF THE
FLOW METER REPLACEMENT PROJECT**

RELEASE DATE:

DECEMBER 21, 2021

DUE DATE:

JANUARY 4, 2022

PREPARED FOR:

SIERRA VALLEY GROUNDWATER MANAGEMENT DISTRICT (SVGMD)

SIERRAVALLEYGMD@SBCGLOBAL.NET

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NOTICE INVITING BIDS

Notice is hereby given that bids will be received by the Sierra Valley Groundwater Management District (SVGMD) at sierravalleygmd@sbcglobal.net

For the
**Purchase of twenty (20) magnetic flow meters
for agricultural applications**

All bids are DUE prior to
5:00 P.M., PST on **Tuesday January 4th, 2022**

Bids will only be accepted from vendors who have received a set of the technical specifications and unit bid schedule. Only electronic bids will be accepted via email (address below), provided they are completed on copies of the prescribed forms in this bid document, and original copies are delivered to SVGMD upon request.

Questions regarding the project shall be addressed *in writing via email* prior to December 28, 2021 at 5:00 p.m. PST to:

SVGMD
Attention: Jenny Grant, Board Clerk
Email: sierravalleygmd@sbcglobal.net

The District will provide answers and clarifications in writing by posting an addendum or addenda to the bid documents on the District's website at <https://www.sierravalleygmd.org/>.

SVGMD Purchasing Policy Bid Procedures

The bid procedure applies to goods and consists of:

1. Obtaining not less than three (3) written quotations from three (3) independent vendors.
2. If the subject purchase is made, the lowest cost quotation shall be selected unless the SVGMD Board approves a higher quotation upon specific findings.
3. All quotations may be rejected.

To qualify as a valid quotation, the vendor submitting the quotation must be ready, willing, and able to supply the object of the quotation (i.e., goods) according to the terms and conditions of the quotation and in a commercially reasonable manner. A purchase authorized following the required informal competitive bid may not be consummated unless it is made on the price, terms, and conditions set forth in the quotation and so approved by the SVGMD Board.

SVGMD reserves the right to issue an addendum or addenda to clarify, correct, or change the bid document solicitations as deemed necessary and waive any informality in a bid and to make awards in the interest of the SVGMD. The modification or withdrawal of any bid documents submittal by a contractor for construction contracts prior to the required submission date and time for formal competitive bid openings must be made in writing and must be signed by the contractor. No bidder shall withdraw the bid for a period of sixty (60) Calendar Days after the bid due date.

Bid Form/Bid Schedule
for
Purchase of Twenty (20) Magnetic Flow Meters

To: Sierra Valley Groundwater Management District
P.O. Box 88
Chilcoot, CA 96105
SIERRAVALLEYGMD@SBCGLOBAL.NET

Project Title: SVGMD MAGNETIC FLOW METER PURCHASE AS PART OF THE
FLOW METER REPLACEMENT PROJECT

Bidder: _____

Bidder's Address: _____

Telephone No.: _____

Email Address: _____

Unit Bid Schedule

Item No.	Item Description/Model Number	Unit	Quantity	Unit Price	Total
1	6-inch Nominal ID Flanged Magnetic Flow Meter (Part # DM06-B-AFT-GPM-G)	LS	2		
2	8-inch Nominal ID Flanged Magnetic Flow Meter (Part # DM08-B-AFT-GPM-G)	LS	6		
3	10-inch Nominal ID Flanged Magnetic Flow Meter (Part # DM10-B-AFT-GPM-G)	LS	9		
4	12-inch Nominal ID Flanged Magnetic Flow Meter (Part # DM12-B-AFT-GPM-G)	LS	3		
7	Applicable Sales Tax on All Items	LS	1		
8	Applicable Shipping on All Items	LS	1		
				Grand Total:	

**Bid Form/Bid Schedule
for
Purchase of Twenty (20) Magnetic Flow Meters**

GRAND

BID TOTAL: \$ _____ (in numbers)

GRAND

BID TOTAL: _____ **Dollars**

and _____ **Cents** (in words).

Please note any deviations from Technical Specifications:

Please note current deliver time from date of placing order: _____

Bid Prepared By:

Name

Title

Date

Technical Specifications for Magnetic Flow Meters

Flow meters provided by the vendor shall conform to the following technical specifications. Any deviations must be clearly described in the Bid Proposal form. Deviations may be grounds for not selecting a vendor, subject to SVGMD's sole discretion.

Summary

1. Twenty (20) McCrometer Dura Mag, or equal, flow meters ranging in size from 6 to 12 inch Nominal ID (see Unit Bid Schedule for model numbers)
2. Battery powered electromagnetic flow meter suitable for agricultural applications
3. Flanged connections to well discharge piping
4. Accuracy +/- 1%
5. Display readout of instantaneous flow rate in gallons per minute, and total discharged in units of acre-feet
6. No remote read capability and no additional output necessary
7. Maximum straight pipe length 2 times pipe diameter upstream, and 1 times pipe diameter downstream to maintain accuracy
8. Five-year battery life
9. Weather proof sufficient for year-round outdoor installations
10. 5-year manufacture's warrant

Details of Flow Meter Requirements

METER shall be a velocity sensing electromagnetic type tube meter of the following type:

Flanged tube meter, size 6" to 12" in diameter as per Table 1, with sealed housing for 150 PSI working pressure.

Each meter shall be of the diameters listed in Table 1, with a digital indicator having a range of 0 to 3000 gallons per minute, and shall be equipped with a 9-digit digital totalizer reading in units of acre-feet, and shall be accurate within $\pm 1\%$ of actual flow.

METER TUBE shall be fabricated stainless steel pipe and use flanges as follows:

6"-12" models: AWWA Class "D" flat face steel flanges

The internal and external of the meter tube shall be blasted and lined with a NSF approved fusion bonded epoxy coating, applied by the fluidized bed method. Meter tubes shall have a constant nominal inside diameter offering no obstruction to the flow. Electrodes shall be 316 stainless steel.

MAG SHIELD shall be welded to the tube providing a completely sealed environment for all coils, electrode connections and wiring harness capable of NEMA 6P/IP68 operation.

SIGNAL CONVERTER shall be as follows:

Converter shall be pulsed DC coil excitation type with auto zeroing. It shall indicate direction of flow and provide a flow rate indication and a totalization of flow volume. Totalizer shall be electronically resettable.

Converter shall be microprocessor based with a 2-line LCD display (no backlight), 16 characters per line, and shall display the following:

- Non-volatile memory
- Anti-reverse totalizer
- Total (to 9 digits of precision)
- Flow Rate and Velocity (to 5 digits of precision)
- Alarms: low battery

The converter display shall be non-configurable, with all sensor parameters set at the factory.

Calibration will be completed at the manufacturer's location in accordance with customer supplied application-based requirements.

GROUNDING RINGS shall be 316 stainless steel and shall be supplied with the meter tube. The meter shall have a grounding lug, to which a ground wire can be attached to establish connection to earth ground.

POWER AND SIGNAL ISOLATION: The power supplied between the converter and the meter tube (sensor) and signal between the meter tube and the converter shall be isolated.

SERVICE & SUPPORT: Supplier must have flow calibration laboratories and personnel to perform testing and certify calibration. Personnel must also provide instruction or training as required assuring meters are supported and maintained throughout the guarantee period.

VOLUMETRIC TESTING of all meters must be performed and approved prior to shipment. The complete meter assembly and signal converter must be wet accuracy tested and calibrated. The test facility must be rigorously traceable to an accuracy of $\pm 0.15\%$ with the National Institute of Standards and Technology. If desired, the test shall be witnessed by the customer or their selected agent. A copy of the certified accuracy test record must be furnished at no charge to the customer.

ONE MANUFACTURER shall make all meter sizes and styles required for this contract. The meters shall be manufactured and tested in the U.S.A.