

WATER CONSERVATION MAGMETER IMPLEMENTATION PROGRAM 2017

**YUMA IRRIGATION DISTRICT
YUMA, ARIZONA**

January 10, 2017
Notice of Funding Opportunity No. BOR-DO-17-F011

Yuma Irrigation District
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Executive Summary

The District would like to install a magmeter at the Districts' 18.2 lateral. This will allow for a more accurate reading of the water flowing into the lateral off the Gila Gravity Main, a Reclamation project. The magmeter equipment will increase the efficiency of the District by allowing us to better provide our customers with the water in which they have ordered.

Background Data

The District shares an entitlement of 250,000 acre feet to the Yuma Mesa Division of the Gila Project, Arizona from the Colorado River. The District is entitled to irrigation 11,600 acres and delivers 5,000 acre feet of domestic water. The District annually diverts approximately 65,000 acre feet of Colorado River water. In addition, the District supplies over 1,000 acre feet from other supply wells from within the district.

Evaluation Criteria

Project Benefits

The District wants to implement the use of the magmeter on the 18.2 lateral. Yuma Irrigation District is intending it to use the magmeter to increase the efficiency of the District by increasing our ability to monitor our water usage more accurately. With the ability to more accurately monitor our water usage onsite and remotely the District can deliver the water to our customers more efficiently. The information gathered by the magmeter will be accessible to the USGS for better use in the monitoring of the 18.2 lateral per our agreement in the Districts' water conservation plan Measure 3.

Planning Efforts

Installing the magmeter at the Districts 18.2 later would support planning efforts already outlined in the Districts 2015 Water Conservation plan. Specifically, water conservation Measure 3 on page 8 of the plan which outlines installation of new meters on laterals including the 18.2 lateral. The District hopes that with the installation of the magmeter that it will be better able to manage the water and deliver better service its water users. The new magmeter will take approximately 12 hours to install and calibrate.

Project Implementation

Yuma Irrigation plans to install a magmeter at our 18.2 lateral in the 2017-2018 fiscal year. The work to install the magmeter will be accomplished by 3 different contractors. The collar needed to attach the equipment will be purchased from Border Marketing, the wet tap needed to get the meter into position will be done by Pipeline Services Inc. and the installation and setup of the actual magmeter will be done by Control Design Inc. If the Reclamation was to award the full cost sharing amount requested by this proposal the District would be able to complete the project within 90 days of order date.

Nexus to Reclamation

The installation of the magmeter at the District's 18.2 lateral will allow for more accurate readings of the water flowing into the lateral off the Gila Gravity Main Canal. The Gila Gravity main is a Reclamation projects as it is owned and operated by Reclamation

Environmental and Regulatory Compliance

The magmeter which will be installed will comply with all regulatory laws and regulations. However, no major environmental impacts are foreseen since this project does not require new construction and is being performed on an existing structure. No threatened or endangered species will be disturbed will performing this project.

Funding Plan and Commitment Letters

District will have contractors install the magmeter. Funds for the project are available from District reserves on hand to cost share 50% or more of the total project costs. See attached Yuma Irrigation District Financial Report 2016-2017.

Budget Narrative

Yuma Irrigation plans to install a magmeter at our 18.2 lateral in the 2017-2018 fiscal year. The work to install the magmeter will be accomplished by 3 different contractors. The collar needed to attach the equipment will be purchased from Border Marketing, the wet tap needed to get the meter into position will be done by Pipeline Services Inc. and the installation and setup of the actual magmeter will be done by Control Design Inc. The work for all 3 portions of the project will not be done by District employees, therefore the District will not have to pay out Salaries and Fringe Benefits. Each company has included the price of the labor and materials required for their respective quotes. The travel necessary for each technician is computed into the costs that each company has set for their technicians so that there are no additional costs on the District or Reclamations behalves to have the equipment to be installed. The prices listed in the budget for the collar, wet tap and the magmeter are the most recent and up to date quotes for today's market. Quotes from Pipeline Services Inc., Control Design Inc. and Border Marketing will be attached as support to show the amount of the complete system.

Yuma Irrigation District plans to use reserve funds that are on hand to have a cost share of 50% with the Bureau of Reclamation if the full cost share amount is granted. Financial Reports will be attached in order to show the amount of reserves on hand to support our portion of the cost share. The District is adding a 10% contingency cost to the quoted price to cover any freight and or increase in price from the time of the quote to the order date. Any other unforeseen cost will be covered at the expense of Yuma Irrigation District, if any are to arise.

Indirect Costs

There will not be any indirect costs associated with this project. Installation of equipment is included in attached quotes where necessary.

Total Costs

The total cost of the magmeter and the wet tap will be approximately \$12,298.07 for which the District will and is able to contribute \$6,149.03.

Budget Information

Please see attached SF424C Budget Information - Construction Program



BUDGET ITEM DESCRIPTION	COMPUTATION			Reclamation	Recipient	TOTAL COST
	Value	Unit	Quantity			
SALARIES AND WAGES						
		hr		\$ -	\$ -	\$ -
		hr		\$ -	\$ -	\$ -
		hr		\$ -	\$ -	\$ -
		hr		\$ -	\$ -	\$ -
		hr		\$ -	\$ -	\$ -
		Subtotal		\$ -	\$ -	\$ -
FRINGE BENEFITS						
		percent		\$ -	\$ -	\$ -
		percent		\$ -	\$ -	\$ -
		percent		\$ -	\$ -	\$ -
		percent		\$ -	\$ -	\$ -
		percent		\$ -	\$ -	\$ -
		Subtotal		\$ -	\$ -	\$ -
SUPPLIES AND MATERIALS						
		each	1	\$ -	\$ -	\$ -
		each	1	\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -
				\$ -	\$ -	\$ -
		Subtotal		\$ -	\$ -	\$ -
EQUIPMENT						
Control Desgin	\$ 5,500.06	each	1	\$ 2,750.03	\$ 2,750.03	\$ 5,500.06
Border Marketing	\$ 4,000.00	each	1	\$ 2,000.00	\$ 2,000.00	\$ 4,000.00
				\$ -	\$ -	\$ -
		Subtotal		\$ 4,750.03	\$ 4,750.03	\$ 9,500.06
TRAVEL						
Mileage		mile	1	\$ -	\$ -	\$ -
Lodging				\$ -	\$ -	\$ -
Airfare				\$ -	\$ -	\$ -
M, IE				\$ -	\$ -	\$ -
		Subtotal		\$ -	\$ -	\$ -
CONTRACTUAL						
		lump sum	1	\$ -	\$ -	\$ -
Control Desgin	\$ 90.00	ls	12	\$ 540.00	\$ 540.00	\$ 1,080.00
Pipeline Services	\$ 600.00	ls	1	\$ 300.00	\$ 300.00	\$ 600.00
		ls		\$ -	\$ -	\$ -
		Subtotal		\$ 840.00	\$ 840.00	\$ 1,680.00
TOTAL DIRECT COSTS				\$ 5,590.03	\$ 5,590.03	\$ 11,180.06
INDIRECT COSTS						
Contengency	10.00%	percent		\$ 559.00	\$ 559.00	\$ 1,118.01
TOTAL PROJECT/ACTIVITY COSTS:				\$ 6,149.03	\$ 6,149.03	\$ 12,298.07