

**Pixley Irrigation District  
Recharge Basin Metering System  
Tulare County, CA**

**Application Submitted to  
United States Bureau of Reclamation**

(Funding Opportunity Announcement No. BOR-DO-20-F006  
Section C.3.1)

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**February 26, 2020**

# Pixley Irrigation District

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# Pixley Irrigation District

## Recharge Basin Metering System

### Technical Proposal and Evaluation Criteria

#### I. Executive Summary

##### A. General Project Information

<b>Project Name</b>	Recharge Basin Metering System
<b>Date:</b>	February 26, 2020
<b>Applicant Name:</b>	Pixley Irrigation District
<b>City, County, State:</b>	Tipton, Tulare County, California

##### B. Project Description

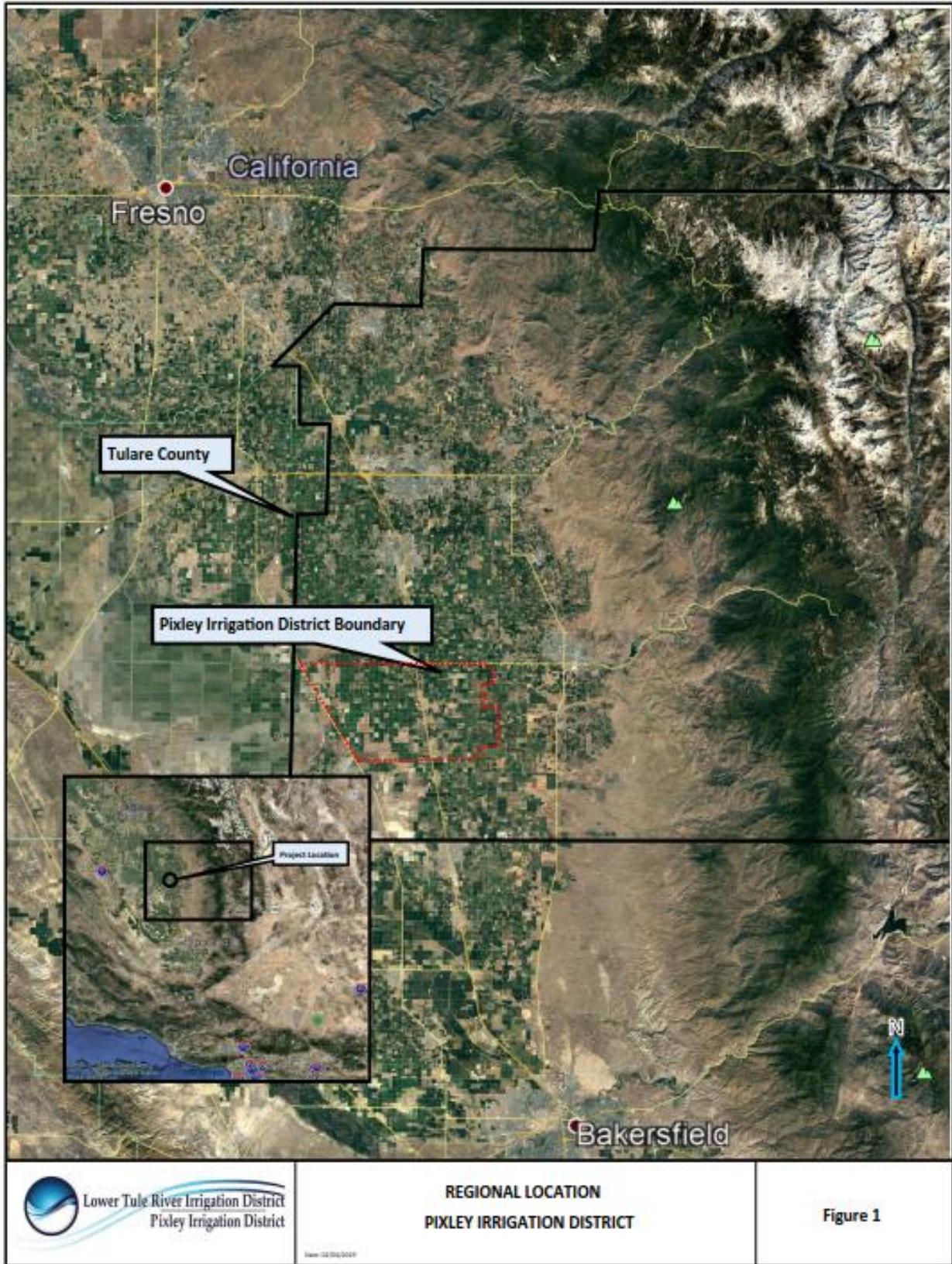
The Pixley Irrigation District (PID of District) has authored this grant application to seek funding assistance for the Recharge Basin Metering System Project. The project would include installation and furnishing twenty (20) area velocity flow meter (AVFM). The AVFM is equipped with digital encoders and transmitters that will transmit flow readings to a data collector. Currently, the District is using manual flow measurements to measure the water flowing into the recharge basins. The AVFM installation project will result in improved water management through an increased in water measurement accuracy, and efficiency. The grant fund would be used to purchase and install the meters with existing District staff. The installation of AVFM, which is capable of continuous measurements of velocity and water level in half pipe flow, is part of the District long term plan to provide accurate and dependable data for Sustainable Groundwater Management Act (SGMA) purposes in the future. The AVFM will provide reliable data to manage surface water for the District's stakeholders. This grant application is submitted pursuant to Funding Opportunity Announcement NO. BOR-DO-20-F006, Section C.3.1 Irrigation Flow Measurement.

#### II. Background Information

##### A. Geographical Location

Pixley Irrigation District, located in Tulare County, California was formed in 1957 in order to provide reliable and high-quality supplemental surface water supply to its landowners who had previously met their water needs solely by groundwater pumping. The District provides services to 67,643 acres within Tulare County and is located in the central San Joaquin Valley. The community of Pixley lies near the middle of the irrigation district and is the largest community within the PID. Adjacent agricultural water agencies include Angiola Water District, Corcoran Irrigation District, Lower Tule River Irrigation District, Delano-Earlimart Irrigation District and Saucelito Irrigation District. **Figure 1: Regional Location** provides the project location and surrounding areas.

**Figure 1: Pixley Irrigation District Regional Location**



## B. Water Supply Source

The water supply in the District is derived from riparian surface water rights from the natural flow of the Deer Creek, federal Central Valley Project water imported from the Friant-Kern Canal and transfers through the Cross-Valley Canal. **Table 1: Average Surface Water Supply** shows the average annual surface water from each source. The District's entire water distribution system is unlined earth canals with reinforced concrete control structures and road crossings. The project area is currently severely underserved by the existing distribution system, leaving growers to rely largely on groundwater to supplement crop irrigation demands.

Water demands in the District are almost entirely agricultural. Crop water demands have averaged from 160,000 to 190,000 acre-feet per year (AF/ Year) between 1985 to 2018.

**Table 1: Average Surface Water Supply**

Water Source	Average Annual (AF)
<b>Deer Creek Run-Off</b>	4,645
<b>Cross Valley Canal Supply</b>	33,000
<b>Total</b>	<b>37,645</b>

## III. Existing Water Delivery System.

### A. Conveyance System

The District's entire distribution system is unlined earthen canals with reinforced concrete control structures and road crossings. Improvement districts were formed to provide local financing for the construction of the distribution systems. After completion, the facilities were turned over to the District for operations and maintenance. Collectively, the District owns or controls approximately 50 miles of canal originating at Deer Creek with capacity ranging from 25 cubic-feet per second (cfs) to 100 cfs. The main canals from South to North with the fall of the Valley floor in the area. The capacity of the sub-laterals branching out from the main canals and heading East to West range from 5 cfs to 100 cfs. Water delivery measurements are performed by means of calibrated slide gate (meter gates). The District does not have groundwater extraction facilities. Each individual landowner provides his own well(s) to sustain irrigation during periods when the District does not have surface water available.

The on-farm irrigation efficiency is not regularly calculated by the District, but in the region, efficiency has been estimated to range from 75-85%. Seepage losses to the earthen canal system are regularly estimated to range in this area is 0.375 acre-feet per acre per day (AF/Ac/D).

**Table 2: Pixley Irrigation District Existing Facilities**

	Diversion Source	Description
<b>1</b>	Friant-Kern Canal	Deer Creek turnout
<b>2</b>	Deer Creek	East Main Canal
<b>3</b>	Deer Creek	Harris Ditch

	Deer Creek		West Main Canal
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**Table 3: Recharge Basin Facilities**

Recharge Basin		Acreage (AC)
1	Avenue 116 Basin	17
2	Brenda Mesa Pit	15
3	County Basin	6
4	Harris Basin	10
5	Hesse Basin	37
6	Micheilli 1 Basin	14
7	Micheilli 3 Basin	34
8	Pixley NWR Basin	527
9	School Basin	16
10	Shop Basin	9
11	South Basin	20
12	Townsend Basin	62
13	Valov Basin	33
<b>Total</b>		<b>766</b>

#### IV. Working Relationship with Reclamation

The District has maintained a good working relationship with Reclamation while implementing projects, on schedule, which were funded by grants received by the Reclamation.

##### **Canal Flow Measurement & Management Project**

In 2018, the District was awarded \$50,000 from the Bureau of Reclamation for the Canal Flow Measurement and Management Project. The project includes the acquisition of River Surveyor M9, which is a monitoring solution for various medium to large size canal, and Flow Tracker 2, which is a monitoring solution for small canals. The project was completed in early 2019 and the District is been using this measurement devices to better manage the limited water supply.

##### **Water, Energy and Efficiency Grant for Avenue 116 Lateral Project**

In 2012, the District was awarded a \$1.5 Million grant from the Bureau of Reclamation for the Avenue 116 Lateral Project. The project includes construction of a new surface water delivery system to an 8,000-acre area that previously did not receive surface water. Construction on this \$4.8 million project began in 2013 and water completed in March 2015.

##### **Water, Energy and Efficiency Grant for System Optimization Review System**

In 2011, the District completed a \$300,000 System Optimization Review study that was partially funded by the Bureau of Reclamation. The study evaluated the District's operations and facilities, made recommendations on how to optimize available resources, and ranked potential projects to improve water reliability.

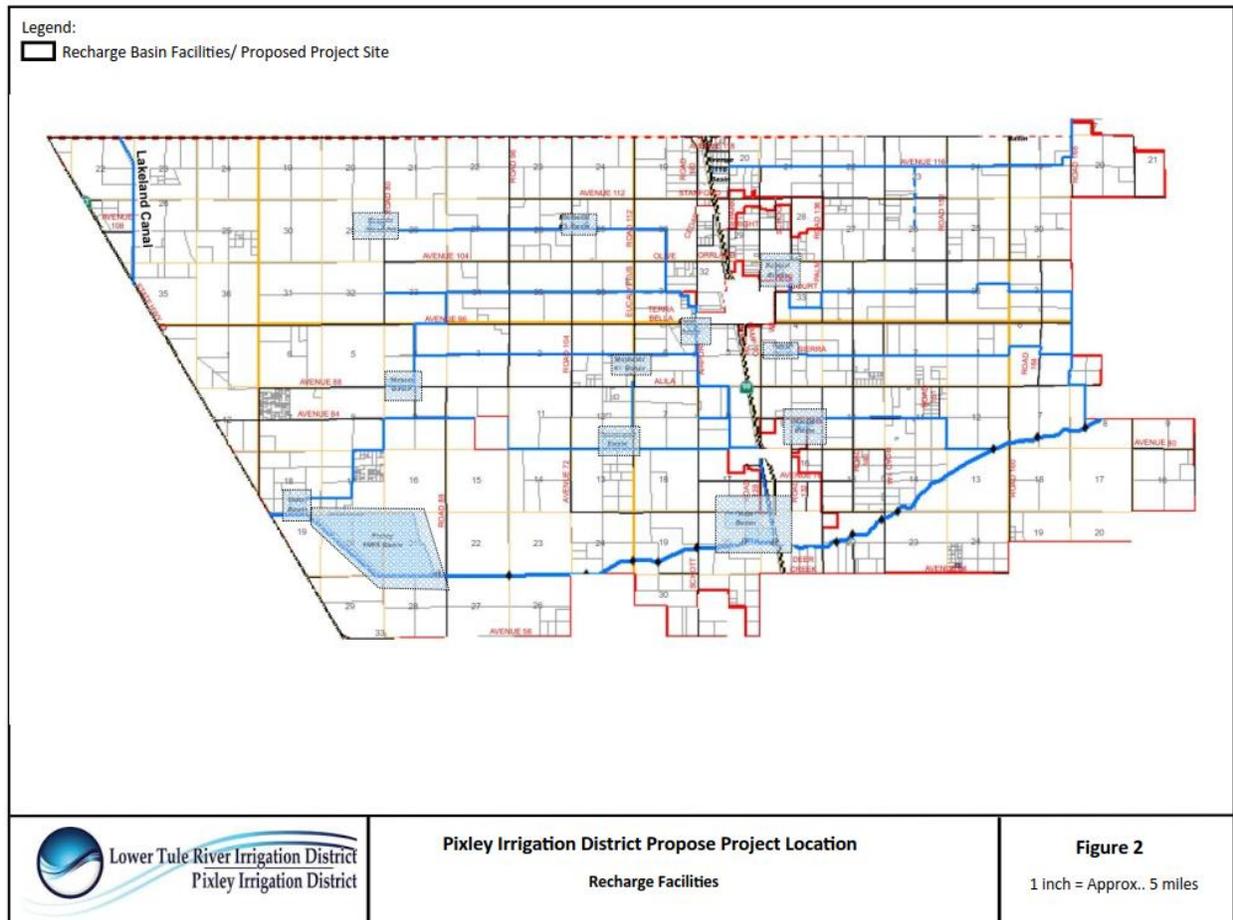
## V. Technical Proposal

### Project Description

The District has identified that upgrading the practice to measure water flowing in to the recharge basin is necessary and a priority. The manual measurement of water flowing into the recharge basin has the potential of inaccuracy, either under, or over-estimating the delivery and thus inaccuracy in accounting for the water. With the current operation, District staff manually measures the water flowing into the recharge basin and most of the time, water flowing into the recharge basin are half-pipe flow, thus making it difficult to get an accurate accounting of the water.

The District plans to acquire twenty (20) Greyline Instruments AVFM 6.0 Ultrasonic Flow Meters to accurately account for the water being percolated. AFVM 6.0 gives the District the ability to read the meter remotely. Using a data collector, a District employee can strategically measure and account for water being recharged. The AVFM 6.0 Area-Velocity Flow Meter measures both level and velocity to calculate flows in an open channel or pipe. Calibration is simple, District staff can input the pipe diameter and it can compute and display flow volume. The AVFM 6.0 sensor mounts inside the pipe with stainless steel mounting brackets and a simple screw into the bottom of the pipe.

**Figure 2: Project Site**



### Task 1: Project Design and Permitting

During this task, Pixley Irrigation District will prepare necessary permits. Such as preparation of California Environmental Quality Act (CEQA) study. The District will also work with the Bureau of Reclamation to perform National Environmental Policy Act (NEPA), as required by statute. The District will also prepare local permits as necessary from various regulatory agencies, as needed. Finally, the District will amass all necessary project components, materials and equipment, needed for this project.

### Task 2: Construction

Task 2 of the proposed project will include meter installation. The meter installations will be performed by District staff. This task will be completed once task 1 objectives are complete.

The need for better water accounting at the project locations has been identified by District staff and confirmed by professional engineers, to better plan for the future and account for water. While the Sustainable Groundwater Management Act (SGMA) implementation is upon us, data gathering, better accounting, and a more reliable data source for groundwater accounting is paramount. While this project is relatively small in scope, it will address an important concern in the Pixley Irrigation District recharge facilities; for continuous, uninterrupted, and accurate water accountability to its recharge basins. Protection of the integrity of the water accounting in the recharge basins is a key component of over all irrigation system management and SGMA implementation and is a worthy investment of resources.

**Table 4: Project Schedule**

Items	Estimated Time to Complete
<b>Task 1: Project Design and Permitting</b>	
1.1 Permitting and Approvals	6 months
1.2 Material Purchase	2 months
<b>Task 2: Construction</b>	
2.1 Installation	2 months
<b>Total Duration of Project</b>	<b>8 Months</b>
<b>Estimated Start Date</b>	<b>September 2020</b>
<b>Estimated Completion Date</b>	<b>May 2021</b>

## VI. Evaluation Criteria

### A. Evaluation Criterion A – Project Benefits (35 Points)

*Up to 35pts may be awarded upon evaluation of the benefits that are expected to result from implementing the proposed project. This criterion considers a variety of project benefits, including the significance of the anticipated water management benefits and public benefits of the project. This criterion prioritizes projects that modernize existing infrastructure in order to address water reliability concerns, including making water available for multiple beneficial uses and resolving water related conflict in the region*

*Describe the expected benefits and outcomes of implementing the proposed project.*

- The proposed project will result in better water management through increased measurement accuracy. This is achieved in various ways, first by calibrating the set point to where readings can be made at every 15 minutes. This 15-minute interval reading will allow the District to gather more data, thus improving data points for evaluation. Secondly, the proposed project will give the District capability to measure half-pipe flow, which is difficult to achieve with regular propeller meter. Third, the proposed project has an accuracy of  $\pm 0.25\%$  for water level and  $\pm 2\%$  for the velocity. Currently, the District practice has an assumed mean standard deviation of 5-10%. The proposed project will also modernize the existing facilities by allowing the District to gather data from the AVFM any time of the day. This will provide the District with capabilities to determine the efficiencies or inefficiencies of the delivery system. This proposed project is also coupled with general public benefit, in that it provides a better accountability and data of water recharged in the District. The trustworthy data can be made available to the public, thus creating a collaborative effort with the general public.

*If other benefits are expected explain those as well. Consider the following:  
Extent to which the proposed project improves overall water supply reliability.*

- In the implementation of SGMA, with the accurate accounting of groundwater recharged, the District would be able to allocate groundwater to each landowner for their proportionate share of surface water imported and recharged. In order to do so, more accurate and reliable data needs to be established. In order for the District to meet sustainability goals, recharge water needs to be accurately accounted for.

*The expected geographic scope benefits from the proposed projects (e.g., local, sub-basin, basin)*

- The proposed project will help account for and eventually, alleviate the declining groundwater levels in the sub-basin. With SGMA implementation, the accountability of data source, such as, water recharged can be accounted for more accurately. Another benefit of this project and SGMA implementation, is that increase in groundwater levels will potentially help the public utility districts, private well owners, and the disadvantage community from losing their wells or wells drying up.

*Extent to which the proposed project will increase collaboration and information sharing among water managers in the region.*

- Once the proposed project is complete, better data can be gathered District wide. This information can be used to determine the inefficiencies and/or efficiencies of the system. This will allow the District to determine which recharge facilities have better recharge capabilities. All this information can be made available to other Groundwater Sustainability Agencies, Districts and water managers. This will allow the District to compare and contrast general operation procedures to determine which practices work best.

*Any anticipated positive impacts/benefits to local sectors and economics (e.g., agriculture, environment, recreation, tourism)*

- The proposed project would propose an increase in accounting accuracy, it would greatly impact the agriculture business in positive way. The District can develop data sources that help account for recharge water, which could be allocated for later use. The proposed project would generate trustworthy data for recharge water calculation, thus creating a concrete groundwater access for landowners.

*Extent to which the project will complement work done in coordination with NRCS in the area (e.g., with a direct connection to the district's water supply). Describe any on-farm efficiency work that is currently being completed or is anticipated to be completed in the future using NRCS assistance through EQIP or other programs.*

- Once the proposed project is installed, data collectors at radio relay sites can be added and implemented, which can be directly transmitted to the Districts existing SCADA server. The project does have the potential to increase collaboration and information sharing among water managers and landowners in this region. District managers can directly access the AVFM data to determine if the basin is capable of accepting more water from other agencies, using it as a recharge banking facility to take advantage of exchange policies within the Subbasin. There will be a significant impact for the agriculture sector, since most our stakeholder are agriculture base, installing AVFM will better account for water credited for their account and thus creating more reliable data for future extraction of those waters, which will help with landowner's on-farm water management and cropping decisions.

## **B. Evaluation Criterion B – Planning Efforts Supporting the Project**

*Up to 35 pts may be awarded based on the extent to which the proposed on-the-ground is supported by an applicant's existing water management plan, water conservation plan, System Optimization Review, or identified as part of another planning effort led by the applicant. This criterion prioritizes projects that are identified through local planning efforts and meet local needs.*

*Describe how your project is supported by an existing planning effort.*

*Does the proposed project implement a goal or address a need or problem identified in the existing planning effort?*

- The proposed project implements and addresses a problem identified in the goals of the District. The proposed project meets the goals of the District's Groundwater Sustainability Plan for SGMA purposes. In the past, through a grant from the Bureau of Reclamation, as noted in Section IV of this application, the District did a System Optimization Review. Also, in 2017, Cal Poly, San Luis Obispo, Irrigation Training and Research Center performed a Rapid Appraisal Process study of the District water delivery system to identify efficiency improvements that could be made to the system.

*Explain how the proposed project has been determined as a priority in the existing planning effort as opposed to other potential projects/measures.*

- The proposed project is an optimization of current existing water measurement. The Groundwater Sustainability Plan (GSP), as required by SGMA, Section 5.1 Project and Management Plan and et al, describes the projects needed to attain sustainability. This project describes the need for an accounting system, and the proposed project is a key component to achieve those goals. The proposed project will be responsible for automatically measuring the water being recharged. Recently, the need for better management of groundwater as defined by SGMA made basin metering as a high priority project, to better account for water that is being recharge and create accurate groundwater budgets.

### **C. Evaluation Criterion C – Project Implementation**

*Up to 10 pts may be awarded based upon the extent to which applicants is capable of proceeding with the proposed project upon entering into a financial assistance agreement. Applicants that describe a detail plan (e.g., estimated project schedule that shows that stages and duration of the proposed work, including major tasks, milestones, and dates) will receive the most point under this criterion.*

*Describe the implementation plan for the proposed project. Please include an estimated project schedule that shows the stages and duration of the proposed work, including major tasks, milestones and dates.*

- The District is capable and prepared to perform the tasks as describe below. The project is broken up into two tasks: Task 1 – Project Design and Permitting and Task 2 – Installation. During Task 1, the District will work with meter suppliers for purchase of the meters and to prepare the technical drawings and designs. The District will secure all required permitting and approvals from various regulatory agencies. Finally, the District will amass all necessary project component materials, and equipment necessary for project installation. Task 2, of the proposed project will include meter installation. This task will be completed by the District staff once all Task 1 objectives are complete. A breakdown of the estimated project schedule is shown in **Table 4: Project Schedule**.

*Describe any permits that will be required, along with the process for obtaining such permits.*

- The District will work with consultants to obtain all the permits necessary, to perform this project, from the appropriate agencies. Once the grant is awarded for this project, the District will work with a third-party consultant or the Bureau of Reclamation to perform NEPA. The District will apply for categorical exemption for CEQA under, CCR Tit 13 Sec 15301 (a) [Existing Facilities] and Section 15306 [Information Collection].

*Identify and describe any engineering or design work performed specifically in support of the proposed project.*

- Once funding and agreements are secured, the District will contract with the vendor to develop the technical drawing. The installation of the proposed project will not require any special engineering work. The technical blueprint for such meters has already been developed by the manufacturer.

*Describe any new policies or administrative actions required to implement the project.*

- None. The District has Operating Rules and Regulation in place and will not change due to this proposed project.

*Describe how the environmental compliance estimate was developed. Have the compliance cost been discussed with the local Reclamation office?*

- Pixley Irrigation District is managed by the same staff of the Lower Tule River Irrigation District (LTRID). LTRID was awarded with the similar proposal. Under that project, the environmental compliance, such as NEPA is being performed by the Bureau of Reclamation, and it was determined that this cost will not exceed \$5,000. A similar process is to be assumed for this proposed project.

#### **D. Evaluation Criterion D – Nexus to Reclamation**

*Up to 10 pts may be awarded based on the extent that the proposal demonstrates a nexus between the proposed project and Reclamation project or activity. Describe the nexus between the proposed project and Reclamation project or activity, including:*

*Is this proposed project connected to a Reclamation of activity? If so, how? Please consider the following:*

*Does the applicant receive Reclamation project water?*

- Pixley Irrigation District has a long-term Cross Valley Canal contract with Reclamation and purchases Friant-Kern Canal water available from neighboring irrigation districts who have contracts, particularly during average to wet years.

*Is the project on Reclamation project lands or involving Reclamation facilities?*

- No, the proposed project is not on Reclamation lands or facilities.

*Is the project in the same basin as Reclamation project or activity?*

- Yes, The project is located in the Tulare Lake Basin, which contains the Friant Kern Canal. The Friant Kern Canal runs along the eastside of the Tule Subbasin and carries approximately 20 miles through the Subbasin. The water is used as supplemental and irrigation supplies in the Tule Subbasin. Several neighboring irrigation districts in the Tule Subbasin hold Friant CVP water contracts with the Bureau of Reclamation.

*Will the proposed work contribute water to a basin where a Reclamation project is located?*

- Yes, the proposed project will contribute to better quantification of water in the Tule Subbasin.

*Will the project benefit any tribe(s)?*

- No, this project will not benefit any tribe in the area.

**E. Evaluation Criterion E – Department of the Interior and Bureau of Reclamation Priorities (10 points)**

*Up to 10 pts may be awarded based on the extent that the proposal demonstrates that the project supports Department and Reclamation priorities. Please address those priorities that are applicable to you project. It is not necessary to address priorities that are not applicable to your project. A project will not necessarily receive more points simply because multiple priorities are addressed. Points will be allocated based on the degree to which the project supports one or more of the Priorities listed, and whether the connection to the priority(ies) is well supported in the proposal.*

**Utilizing our Natural Resources** *(Ensure American Energy is available to meet our security and economic needs.)*

- The proposed project will generate reliable data that the District can manage. The reliable data insures the accountability of the amount of water recharge to the underground for water budget calculation under SGMA, in years of drought, this water will be able to be allocated and pumped by the landowner to ensure the crops are sustained. By sustaining the crops, it is ensured that there will be plenty of resources that will be available.

**Restoring trust with local communities** *(Be a better neighbor with those closest to our resources by improving dialogue and relationship with person and entities bordering our lands; expand lines of communication with Governors, state natural resources offices, Fish and Wildlife offices, water authorities, county commissioners, Tribes, and local communities.)*

- The proposed project will contribute to a better partnership and communication with other water agencies and local agencies in the area. The reliable data can open new avenues and partnership with other local agencies, such as disadvantaged communities and public utility districts which can then developed a recharge banking partnership project to ensure reliable supply of water, to the community. Other water district or irrigation district and the Pixley Wildlife Refuge, located within the District boundaries, can partner with Pixley Irrigation District to recharge water in the existing facility, in the wet years when water is available. This avenue of possible partnership can only be achieved if reliable data is available.

**Evaluation Criteria Scoring Summary**

Scoring	Points
<b>A. Project Benefits</b>	
<b>B. Planning Efforts Supporting the Projects</b>	
<b>C. Project Implementation</b>	
<b>D. Nexus to Reclamation</b>	
<b>E. Department of the interior Priorities</b>	
<b>Total</b>	

## VII. Environmental and Cultural Resource Considerations

*Will the proposed project impact the surrounding environment (e.g., soil [dust], air, water [quality and quantity], animal habitat)? Please briefly describe all earth-disturbing work and any work that will affect the air, water, or animal habitat in the project area. Please also explain the impacts of such work on the surrounding environment and any steps that could be taken to minimize the impacts.*

- The proposed project will not require any excavation and or soil disturbance. The proposed project consists of installation of electronic meters at existing facilities. The existing facilities consists of one or more open inlet, which gives an open access to the installation area.

*Are you aware of any species listed or proposed to be listed as Federal threatened or endangered species, or designated critical habitat in the project area? If so, would they be affected by any activities associated with the proposed project?*

- No endangered species or critical habitat will be affected by the proposed project. The meter installation will take place at an existing facilities.

*Are there wetlands or other surface water inside the project boundaries that potentially fall under CWA jurisdiction as “Waters of the United States”? If so, please describe and estimate any impacts the proposed project may have.*

- No, there are no effects of this project to wetlands or Waters of the United States.

*When was the delivery system constructed?*

- Pixley Irrigation District has owned, operated, and maintained the current water distribution system since its formation in 1958.

*Will the proposed project result in any modification of or effect to, individual features of an irrigation system (e.g., headgates, canals, or flume? If so, state when those features were constructed and describe the nature and timing of any extensive alterations of modifications to those features completed previously.*

- No, the proposed project will not affect or modify the existing headgates, canal or flumes.

*Are any buildings, structures, features in the irrigation district listed or eligible for listing on the National Register of Historic Places? A cultural resources specialist at your local Reclamation office or the State Historic Preservation Office can assist in answering this question.*

- No historical places will be affected.

*Are there known archeological sites in the proposed project area.*

- There are no known archeological sites in the proposed project area.

*Will the proposed project have a disproportionately high and adverse effect on low income or minority populations?*

- No, the proposed project will not have an affect on low income or minority populations.

*Will the proposed project limit access to and ceremonial use of Indian sacred sites or results in other impacts on tribal lands?*

- No, the proposed project will not limit the access the ceremonial use of Indian sacred sites.

*Will the proposed project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?*

- No. There will be no excavation and no disturbance of the soil.

### **VIII. Required Permits or Approvals**

Any permits necessary to complete this project will be obtained prior to installation. The District will work with the Bureau of Reclamation or a third-party consultant to perform NEPA. The District will file a categorical exemption for CEQA. The District will also work with local agencies to obtain any other permits as may be required.

**VIX. Official Resolution****RESOLUTION No. 2020-02-02****APPLICANT'S NAME: PIXLEY IRRIGATION DISTRICT**

**WHEREAS**, the Board of Directors of the Pixley Irrigation District is in agreement that an application be made to the Department of the Interior, Bureau of Reclamation (Bureau) for Funding Opportunity Announcement. BOR-DO-20-F006, WaterSMART: Small-Scale Water Efficiency Grant for FY 2020, and enter into an agreement to receive a grant from this funding source if said application should be successful, the Bureau has available grant funds, and the District's contribution to the effort as described in the application be acceptable to the Bureau. The General Manager of the District is hereby authorized and directed to prepare the necessary date, conduct investigation, file such application and execute a grant agreement with the Bureau.

**NOW THEREFORE, BE IT RESOLVED** that the Board of Directors agreed and authorizes that:

- 1. The Board of Directors has reviewed and supports the proposal submitted;**
- 2. The District is capable of providing the amount of funding and in-kind contributions, specific in the funding plan; and**
- 3. If selected for the WaterSMART Grant, the applicant will work with Reclamation to meet established deadlines for entering into a cooperative agreement**

DATED: 2/13/2020  
\_\_\_\_\_  
Eric Limas,  
General Manager

**X. Project Budget**

**I. Funding Plan and Letters of Commitment**

**Letter of Commitment**

There will be no source of project funding other than the applicant. No letter of Commitment from third parties are required. The District’s Basic Financial Statements and Supplementary Information year Ended December 31, 2019 (Certified Financials) are available to the Bureau upon request. The District has a reserve account that is more than healthy enough to meet the needed contributions for their portion of the project.

**II. Budget Proposal**

**Table 5: 2020 Funding Request Summary**

Funding Source	Percentage of Total Project Costs	Funding Amount
Pixley Irrigation District	50%	\$66,000
Reclamation Funding	50%	\$66,000
Other Federal Funding	0%	\$0.00
<b>Total Project Funding</b>	<b>100%</b>	<b>\$132,000</b>

The funds that the District is seeking is to purchase the AVFM and data collector components and other pertinent components to bring the data inhouse. The budget item is developed through solicitation of proposal from three different manufacturers and suppliers. These companies are; Intermountain Environmental INC., SWIIM System, and Sontek.

BUDGET ITEM DESCRIPTION	COMPUTATION		QUANTITY TYPE	TOTAL COST
	UNIT PRICE	QUANTITY		
<b>THIRD PARTY CONTRACTOR</b>				
NEPA	\$5,000	1	each	\$5,000
CEQA	\$2,000	1	each	\$2,000
<b>SUPPLIES AND MATERIALS</b>				
Area- Velocity Flow Meter	\$3,225	20	each	\$64,500
Data Logger	\$1,605	20	each	\$32,100
Radio Transmitter	\$1,340	20	each	\$26,800
Computer Software	\$1,375	1	each	\$1,375
<b>TOTAL</b>				<b>\$131,775</b>