United States Department of the Interior

BUREAU OF RECLAMATION
Upper Colorado Regional Office

IN REPLY REFER TO:

PRE-SOLICTATION NOTICE
Please respond to Valerie_jiron@ios.doi.gov
Reference: 140R4025R00017

Brackish Groundwater National Desalination Research Facility Yard Piping and Flow Measurement Upgrade

The Bureau of Reclamation, Upper Colorado Region, has a requirement for a Two-Phase Design-Build project to provide upgrades to site source water, potable water and concentrate water piping and flow measurement infrastructure at the Brackish Groundwater National Desalination Research Facility (BGNDRF).

BGNDRF is proposing to upgrade the existing source water (SW), potable water (PW), and concentrate water (CW) piping and flow measurement infrastructure of the outdoor test area known as Pad 10. The project will design, then construct new piping to support three supply and waste manifolds and provide a new piping system for a future supply tank.

The project is to be designed and constructed in two phases, using a traditional design-build delivery method. In this contract, traditional design-build refers to construction delivery methods that provide owners with a single point of contact for both the design and construction phases of a project.

- Design Phase: Collect design data and investigations as needed, prepare designs for all required project infrastructure targeted to the stipulated construction budget, and develop a final price proposal, targeted to the project budget, in consultation with Reclamation to complete designs, specifications and construct the yard piping and flow measurement upgrade.

- Construction Phase: Complete construction tasks, including yard piping and flow measurement upgrades, four (4) magnetic flow meters in the CW vault, install new conduit from all new flow meter locations to the existing plant SCADA system, temperature-controlled heat trace and insulation for all pressure piping, and all testing, training, and commissioning.

Background

Reclamation was created in 1902 to develop water projects that would store and transport water to the arid lands of the Western United States. Reclamation now spans 17 western states, divided into 5 regions. Within the Upper Colorado Basin Region, the Albuquerque Area Office (AAO) is one of the largest in Reclamation, reaching from the Alamosa area of southern Colorado through most of New Mexico and into west Texas. The AAO manages water delivery on the Rio Grande, Rio Chama, Pecos and Canadian rivers.

The 2001 Desalination Act, directed Reclamation, in cooperation with Sandia National Laboratories, to plan for a desalination research and development facility in the Tularosa Basin of New Mexico. BGNDRF is integrated into Reclamation's existing desalination research and development program. It fills a unique role and draws upon the expertise and research activities already established.

Objectives

The Project shall provide upgrades to site SW, PW and CW piping and flow measurement infrastructure.

Design and Construct:

1. Yard piping and flow measurement upgrades:
   a. OPTIONAL CLIN: Locate leak and replace 50-500 ft (50-ft sections) of damaged Source Water Storage Tank 2 (SWST2) pipeline.
   b. TP10 Flow Measurement Vault (Point C) including below grade vault, access hatch(es), power and controls, valves, piping, accessories, and three magnetic flow meters:
      1) Three (3) for the existing SW piping from SWST1, SWST2, and SWST3 to the TP10 Manifolds (Point E).
      2) Provide, controls, and integration with SCADA, electrical power to flow meters and heat trace, including duct bank and conduit. The flow meters shall provide local readout and remote readout to the existing plant SCADA system.
   c. Replace existing 4" TP10 return line to SWST2 (Point B) using similar route as existing temporary (shallow) line. This requires replacement of sun-damaged piping and valves at the test pad.
   d. Removal of the existing partially buried TP10 manifold, which contains existing piping from SWST1 (SW 1), SWST2 (SW 2), SWST3 (SW 3), and PW source, and rerouting buried piping to the TP10 Flow Measurement Vault (Points C, D).
   e. Buried piping for SW 1, SW 2, SW 3, and PW from TP10 Flow Measurement Vault (Point C, D) to three above grade piping manifolds at TP10 (Point E).
   f. Three TP10 Piping Manifolds (Point E) that each provide above grade connection to SW 1, SW 2, SW 3, and PW sources and a connection to CW pressure drain piping.
   g. Separate pressure CW drain piping (three pipelines) from each of the three TP10 manifolds (Point E) to the CW Vault (Point L). The pressure drain piping shall be buried between the TP10 manifolds and the CW Vault.
   h. A valving manifold within the CW Vault (Point L) which allows any of the three TP10 Piping Manifolds to deliver CW water to any of the three Evaporation Ponds (Point M, Point N, or Point O).
   i. Install a magnetic flow meter on the 6" SW line at TP7 (Point I). Provide, controls, and integration with SCADA, electrical power to flow meters and heat trace, including duct

bank and conduit. The flow meters shall provide local readout and remote readout to the existing plant SCADA system.

j. Install a magnetic flow meter on the 4" Well 2/4 bypass line west of Pond 1. Provide, controls, and integration with SCADA, electrical power to flow meters and heat trace, including duct bank and conduit. The flow meters shall provide local readout and remote readout to the existing plant SCADA system.

l. Modify SW piping from acid room (Point A) valve manifold to TP 7, 8, and 9 (Points I, J, and K, respectively). Cap and abandon in place unused portions of the three pipelines that connect the acid room valve manifold to the outdoor test pads and replace with a single line that connects to the associated line from the acid room. Unused piping can be removed to facilitate new design.

m. Remove buried interconnections between TP 7, 8, and 9 piping and provide new isolation valves above grade on the vertical section of each test pad's piping manifold. Cap and abandon in place or remove piping taken out of service as necessary to ensure each test pad is fed by a single pipeline that matches what is coming from the building. Provide, controls, and integration with SCADA, electrical power to flow meters, heat trace, and insulation, including duct bank and conduit as required.

n. Three (3) magnetic flow meters in the CW Vault which measure instantaneous and total CW flow to the three Evaporation Ponds (Point M, Point N, or Point O). One magnetic flow meter on the 4" Well 2/4 bypass line west of Pond 1 (Point Q). The flow meters shall provide local readout and remote readout to the existing plant SCADA system. Provide, controls, and integration with SCADA, electrical power to flow meters and heat trace, including duct bank and conduit..

2. Installation of four concrete vaults at or near the four existing valve vaults (Pond 1, Pond 2, Pond 3, and Agriculture) to provide access to the existing flow meters which measure flow to Ponds 1-3 and Agriculture magnetic flow meters (Point P). This may include relocation of the flow meters and installing gravel at Pond 2 and the Agriculture supply vaults.

3. The contractor will install new conduit from all new flow meter locations to the existing plant SCADA system. Controls cabling from flow meters to interface with existing SCADA system. The Contractor will be responsible for installing and terminating controls cabling through new terminal blocks to the existing SCADA PLC within the existing Research Facility building. The contractor will also be responsible for providing surge/transient suppression on these new cables. The Owner will be responsible for programming the new signals into the existing SCADA system.

4. Temperature controlled heat trace and insulation for all pressure piping above frostline and as required for below grade or vaulted infrastructure.

5. Utilities as needed and as described herein.

6. All other components required to provide a fully functional system that meets the intent of this solicitation.

7. Testing, training, and commissioning.

1. Cost: Minimize life-cycle cost. The total available budget for the design and construction of this project is in the range of $500,000.00 - $1,000,000.00.

2. Schedule: Achieve the scheduled completion date of 122 days after contract award for review of 90% design and 305 days for construction, commissioning, and performance testing of the Project.

3. Risk: Achieve an optimal balance of risk allocation between the Owner and the Design-Builder.

4. Safety: Implement an effective safety program incorporating best industry practices that meet or exceed all relevant Reclamation Safety and Health Standards.

   Minimum bonding capacity: $280,000,000.00

Location: BGNDRF located at 500 Lavelle Road in Alamogordo, New Mexico in Otero County.

NAICS and Size Standard: The applicable North American Industry Classification System (NAICS) Code is **237110 - Water and Sewer Line and Related Structures Construction** and the related small business size standard is $45 million.

Competition: Solicitation 140R4025R0017 is anticipated to be conducted as a Small Business Set-Aside. The project specifications and project location will be defined in the solicitation document. Offerors must have sufficient bonding capacity.

Solicitation Release Date: All responsible sources may submit a proposal which shall be considered by the agency. A free, electronic copy of the solicitation will be available on APPROXIMATELY **August 17, 2026**, at https://www.sam.gov/. Once logged in, type in the Solicitation Number "140R4025R0017" in the Keyword / Solicitation # field. This project will use a best value process in accordance with Federal Acquisition Regulation (FAR) Part 15 and Part 36.3. All questions and comments must be submitted in writing via e-mail to Valerie Jiron at valerie_jiron@ios.doi.gov.

System for Award Management (SAM, www.sam.gov): The System for Award Management (SAM) is a recently implemented Federal Government owned-and-operated FREE web site that consolidates the capabilities in Central Contractor Registration (CCR)/Federal Register (FedReg), Online Representations and Certifications Application (ORCA), and Excluded Parties List System (EPLS). Offerors must be successfully registered in SAM in order to be considered for a Government contract award. If you had an active record in CCR, you have an active record in SAM.

Site Visit: The Government intends to conduct a pre-award site visit for highly interested vendors. Information regarding the site visit will be in Section L of the solicitation.

Point-of-Contact for Questions: The Contracting Officer for this solicitation is Mary Maestas, email: mary_maestas@ios.doi.gov and the Contract Specialist is Valerie Jiron, email: Valerie_jiron@ios.doi.gov Any communication regarding this procurement must be made in

writing and forwarded via email and must identify the solicitation number, company name, address, email address, phone number including area code, and point of contact. Emails shall be addressed to the Contract Specialist and cc the Contracting Officer.

Note: THIS IS NOT A REQUEST FOR PROPOSAL (SOLICITATION), AN INVITATION FOR BID (IFB), NOR IS IT A REQUEST FOR QUOTATION (RFQ). It is not to be construed as a commitment by the requesting party to issue a solicitation or ultimately award a contract. Responses will not be considered as proposals, bids, or quotes. No award will be made because of this Notice. The Government will NOT be responsible for any costs incurred by interested parties in responding to this Notice. This Notice is strictly for compliance with FAR Subpart 5.2. As a result of this Notice, the Government may issue a competitive solicitation; however, should such requirements materialize, no basis for claims against the Government shall arise as a result of a response to the Notice (e.g. use of such information as either part of its evaluation process or in developing specifications for any subsequent requirement).