

# MEPNN Supplier Scouting Opportunity Synopsis

## Section 1: General Information

Scouting Number	2024-324
Item to be Scouted	Automated Water Level Control Gate
Days to be scouted	30
Response Due By	11/15/2024
Description	This search is requested to support a BABA waiver to procure six automated LOPAC gates manufactured in Canada by Aqua System 2000, Inc. The self-contained automated control gates are to be installed in concrete control structure within an irrigation canal. Vertical gate leaves are required to allow full depth of flow to pass to avoid potential sediment buildup at the gate. Gate operation needs to be automated to maintain upstream water level and capable of integrating into SCADA system. Solar powered gate operation is required as there is no electrical service available at the sites. A total of six gates are required with varying widths and heights.
Notify Requester Immediately	
State item to be used in	California

## Section 2: Technical Information

Type of supplier being sought	Contract manufacturer
Reason	BABA
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Fabricated self-contained gate, stainless steel welding, mechanical gate actuator, electrical control panel assembly and programming.
Provide dimensions / size / tolerances / performance specifications for the item	Gate 1: 66" gate width / 66" leaf height / 102" frame height Gate 2: 66" gate width / 60" leaf height / 90" frame height Gates 3, 4, 5 & 6: 42" gate width / 54" leaf height / 102" frame height
List required materials needed to make the product, including materials of product components	304 stainless steel, self-lubricated submerged bearings, 24Vdc gate actuator with adequately sized solar power system (PV panel, battery and charger), telemetry radio and Yagi antenna, PLC and HMI, water level sensor, outdoor rated electrical control panel.
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Are there any other standards, requirements, etc.?	No
NAICS 1	221310 Water Supply and Irrigation Systems
NAICS 2	
Additional Technical Comments	Gate must be self-contained for installation between concrete walls. Gates must consist of vertical leaf gates to allow full depth of flow to prevent sediment buildup. Must be equivalent to Hydra LOPAC gates manufactured by Aqua Systems 2000, Inc. (see attached).

## Section 4: Business Information

Estimated potential business volume	One time purchase of 6 gates.
Estimated target price / unit cost information (if unavailable explain)	Total estimated price for 6 gates: \$450,000 - \$500,000, including fabrication, factory testing, delivery and on-site commissioning & training. Installation by others.

When is it needed by?	Purchase order issued by December 31, 2024 for delivery by August 2025. On-site commissioning and testing will occur in March - April 2026.
Describe packaging requirements	No specific requirements. Manufacturer responsible for damages during delivery. Manufacturer to provide recommended storage methods.
Where will this item be shipped?	Meridian, CA 95957

## Additional Comments

Is there other information you would like to include?	<p>Gate Manufacture must have an established local representative available for on-site testing and trouble shooting.</p> <p>Point of Contact information for questions including BABA/Buy American compliance:</p> <p>U.S. Bureau of Reclamation Kari Cachapero Grant Officer kcachapero@usbr.gov</p> <p>or</p> <p>Meridian Farms Water Company Andy Duffey aduffey@succeed.net</p> <p>Please copy scouting@nist.gov on all correspondence.</p>
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# Product Information



## Hydra LOPAC® Gate

The LOPAC gate was developed by Peter Langemann in the 1980's to assist tail end irrigators in managing widely fluctuating water supplies. A number of installations have operated successfully for the past couple of decades. Aqua Systems 2000 have combined the simplicity of the LOPAC with a hydraulic actuator to provide a flexible and economical solution to water control problems in small to medium sized canal.

### Application Suitability:

- Irrigation check structures
- Spillway structures
- Diversion structures
- Fish screening structures



### Features:

- 3CR12 Stainless Steel
- Hydraulic actuation
- Environment friendly oil
- Manual electric operation
- NEMA 4 electrical panel
- Motor starter, overload relay, limit switch
- Independent high-level emergency assist
- 24 Vdc battery operation for reliability
- Solar powered

### Advantages:

- Superior trash management
- Low power requirements
- Reliable, accurate control



- Ease of installation: LOPAC gates are fully assembled for shipping and are typically dropped into existing stop-log guides

### Options:

- 304 Stainless Steel components where aggressive water is encountered
- Operation modes:
  - Hydraulic
    - Automated
  - Screw Jack
    - Manual (cordless drill operated)
  - Manual electric
  - Automated

