

# MEPNN Supplier Scouting Opportunity Synopsis

## Section 1: General Information

Scouting Number	2026-281
Item to be Scouted	BABA: Domestic Booster Pump
Days to be scouted	14
Response Due By	06/24/2026
Description	Domestic Booster Pump similar in form, fit, and fashion to Water Control Corporation Model BPS150-3-45x1

## Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	BABA

Describe the manufacturing processes (elaborate to provide as much detail as possible)

Step 1: Component Manufacturing  
Pump and Hydraulic Components  
Casting  
Pump casings and impellers are cast (sand casting or investment casting)  
Machining  
CNC machining for tight tolerances on:  
Impeller geometry  
Shaft alignment  
Seal surfaces  
Surface treatment  
Epoxy coating or passivation (for corrosion resistance)  
Motors  
Stator winding  
Copper windings inserted into laminated steel stator  
Rotor fabrication  
Die-cast aluminum or copper rotor bars  
Assembly and balancing  
Precision balancing of rotating assemblies  
Valves and Manifolds  
Forging or casting (valve bodies)  
Machining and threading  
Pressure testing  
Step 2: Subassembly Fabrication  
Individual pump + motor units (3 pumps for triplex system) are assembled  
Mechanical seals and bearings installed  
Each pump undergoes:  
Hydrostatic pressure testing  
Performance testing (flow & head)  
Step 3: Skid Assembly  
Fabricated steel base (cutting, welding, coating)  
Pumps mounted onto skid  
Suction and discharge manifolds installed  
Piping connections welded, flanged, or grooved  
Step 4: Electrical & Controls Integration  
Installation of:  
Variable Frequency Drive (VFD)  
Control panel  
Wiring harnesses  
Integration of:  
Pressure sensors  
Control logic for staging pumps (lead/lag operation)  
Step 5: System Testing & Commissioning  
Factory Acceptance Testing (FAT):  
Flow validation (263 GPM target per your spec)  
Pressure verification (up to 85 PSI)  
Electrical testing:  
Voltage (208V, 3-phase)  
VFD functionality  
Leak checks and control calibration

<p>Provide dimensions / size / tolerances / performance specifications for the item</p>	<p>Technical Specifications:  - Pump Type: Triplex Booster System  - Manifold Size: 2 in  - Flow Rate: 263 GPM  - Inlet Pressure: 59 PSI  - Maximum Outlet Pressure: 85 PSI  - Voltage: 208V  - Phase: 3  - Control Type: Variable Frequency Drive (VFD)</p> <p>System Use: Building cold water pressure boosting</p> <p>NAICS Code: 333911  PSC Code: 4320  Country of Origin: Non-US components (assembly/manufacturing not fully BABA compliant)  Estimated Quantity: 1 System</p> <p>Approximate Skid Dimensions  roughly 6–8 ft long × 3 ft wide × 5 ft  Approximate Weight:  1,750 – 2,500 lbs</p>
<p>List required materials needed to make the product, including materials of product components</p>	<p>A. Pump Components  Pump casing / housing - Typically: Cast iron, ductile iron, or stainless steel (304/316)  Impellers - Stainless steel or engineered thermoplastics (for corrosion resistance)  Shafts - Stainless steel (precision-machined)  Mechanical seals - Carbon/ceramic or silicon carbide sealing faces  Bearings - Steel roller or ball bearings</p> <p>B. Motor Assembly  Motor frame: Cast aluminum or steel  Windings: Copper  Rotor/laminations: Electrical-grade silicon steel</p> <p>C. Manifold and Piping (2-inch manifold per spec)  Material:  Carbon steel (galvanized or epoxy-coated), or  Stainless steel (common for potable water)  Includes:  Suction header  Discharge header  Isolation valves  Check valves (brass or stainless steel)</p> <p>D. Valves and Fittings  Valve bodies: Brass, bronze, or stainless steel  Check valves: Spring-loaded stainless steel/brass  Flexible connectors: Reinforced rubber with steel braid</p> <p>E. Frame / Skid  Welded structural carbon steel, powder-coated or painted</p> <p>F. Controls (VFD System)  Enclosure: Powder-coated steel or NEMA-rated cabinet  VFD components:  Power electronics (IGBT modules)  Copper bus bars  Printed circuit boards  Sensors:  Pressure transducers (stainless steel wetted parts)</p>
<p>Are there applicable certification requirements?</p>	<p>Yes</p>

Certification(s) required	UL
Are there applicable regulations?	Yes
Details	Underwriters Laboratories 778 Underwriters Laboratories 508A National Fire Protection Association 70 American National Standards Institute / Hydraulic Institute Pump Standards National Sanitation Foundation / American National Standards Institute 61 National Sanitation Foundation / American National Standards Institute 372 International Organization for Standardization 9906 International Plumbing Code Minnesota Plumbing Code Department of Energy Energy Efficiency Rules National Electrical Manufacturers Association MG 1 International Electrotechnical Commission 61800
Are there any other standards, requirements, etc.?	Yes
Details	American Society of Mechanical Engineers B31.9 American Society of Mechanical Engineers Boiler and Pressure Vessel Code
Additional Technical Comments	

## Section 4: Business Information

Estimated potential business volume	1 Triplex Pump
Estimated target price / unit cost information (if unavailable explain)	Estimated \$55,000
When is it needed by?	Immediate
Describe packaging requirements	Palletized
Where will this item be shipped?	Minneapolis, MN

## Additional Comments

Is there other information you would like to include?	<p>The specified booster pump system was selected based on required flow, pressure, and redundancy needs for a multifamily residential building. The triplex configuration ensures reliability and consistent pressure across all floors while meeting system demand requirements.</p> <p>Funding: MHFA (Minnesota Housing Finance Agency) Contact: Nick Hoelscher; nick.h@noorcompanies.com</p>
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