

**DEPARTMENTAL INPUT
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

Date: July 20, 2022

To: Gary T. Hartfield, Division Director
Internal Services Department
Small Business Development Division

From: Paul Adams, Manager
Construction Contracts Division

Department: Miami-Dade Water and Sewer Department

Contract Title: JOHN E PRESTON WATER TREATMENT PLANT HIGH SERVICE PUMP STATION
ELECTRICAL UPGRADES

Contract No.: W-949

Estimate \$11,817,038.16 (Construction \$10,435,432.00 + Allowances & Contingency
\$1,381,606.16)

Funding Source: Water Connection Charges, WASD Revenue Bonds Sold and Future WASD Revenue Bonds

Small Business Enterprises -Construction 3.60%



Department Head or Authorized Agent

DESCRIPTION OF PROJECT:

The project consists of implementing electrical improvements to the existing Preston High Service Pump Station (HSPS). The existing facility was initially placed into operations in 1968 and has received multiple upgrades over the years. The electrical upgrades under this project will include the following components:

- i. New medium voltage GIS switchgear to replace the existing switchgear at the HSPS room.
- ii. Demolition of the existing switchgear.
- iii. Demolition of two existing high service pumps (Pumps #1 and #2).
- iv. New induction motors to replace the existing synchronous motors for each of the six existing pumping units (From Pump #3 to Pump #6).
- v. Addition of new VFDs to selected pumps.
- vi. Motors without a VFD shall be equipped with a soft-starter to limit initial inrush of current during motor start up.
- vii. New electrical room to house the new electrical equipment located at the Generator Building #2 mezzanine.
- viii. Associated supporting infrastructure improvements to support the electrical modifications.
- ix. Automated pump control system with redundant PLCs integrated with the Plant SCADA system for installation in conjunction with the new VFDs.
- x. New priming system for the existing high-pressure pumps located at the HSPS room.

LICENSES REQUIRED:

One of the following licenses is required: State General Contractor, General Engineering Contractor and/or other categories as applicable by Chapter 489 of the Florida Statutes or County Code Chapter 10.

MINIMUM EXPERIENCE REQUIRED:

The Bidder shall submit, among other things, detailed information identifying all personnel to be utilized on this project and evidence with respect to the following:

- (a) Bidder has a well-trained and competent organization that has done work of similar character and value;
- (b) Bidder will need to show that they have done at least three similar electrical upgrade projects in the last five years;
- (c) Bidder will have available to do the work at the proper time or times, adequate equipment and facilities, listing such equipment and facilities in such detail that the information can be quickly and accurately checked;
- (d) Bidder has ample repair parts and supplies to maintain all equipment and facilities properly and with a minimum of delay;
- (e) If the Bidder is a corporation, the names of all corporate officers and the name of the executive who will give his personal attention to this work;
- (f) Detailed financial information relating to the resources of the Bidder.

The prior experience of Bidder's key personnel will be considered in evaluating a Bidder's qualifications for this project in accordance with Miami- Dade County Resolution No. R-1122-21.

BASIS OF RECOMMENDATION: Attached

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Small Business Enterprise – Goods & Services – 2.02%

Analysis for Recommendation (Attached)



Department Head or Authorized Agent

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The project consists of implementing electrical improvements to the existing Preston High Service Pump Station (HSPS). The existing facility was initially placed into operations in 1968 and has received multiple upgrades over the years. The electrical upgrades under this project will include the following components:

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- viii. Associated supporting infrastructure improvements to support the electrical modifications.
- ix. Automated pump control system with redundant PLCs integrated with the Plant SCADA system for installation in conjunction with the new VFDs.

- x. New priming system for the existing high-pressure pumps located at the HSPS room.

CONSIDERATIONS FOR ANALYSIS:

This project consists mainly of acquiring and installing electrical equipment and small business opportunities are dictated by the supply chain for the equipment.

BASIS OF RECOMMENDATION: Attached