

**DEPARTMENT INPUT**  
**CONSTRUCTION CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

Check applicable Ordinance(s): ☒ 90-143 Responsible Wage and Benefits ☐ 03-237 (formerly 03-1) Community Workforce Program

**PROJECT INFORMATION**    See attachment ☒

**Contract/Project/\*Work Order No.: S-892**

\*Reference corresponding project number when submitting a work order

**Contract/Project Title: CD 2.08 SECONDARY CLARIFIERS PLANT 2, CD 2.10 RETURN SLUDGE PS PLANT 2, AND CD 2.01(3) ELECTRICAL IMPROVEMENTS**

**Description/Scope of Work: See Attached**

**Estimated Cost: 23471382          Funding Source: Other (specify)**

**Location of Project** (street address or beginning and ending points) i.e. 12345 NE 23<sup>rd</sup> Ct or Starts at 135 St. ends at 145 St.  
**Central District Wastewater Treatment Plant (CDWWTP), located in Virginia Key, 3989 Rickenbacker Causeway, Section 16, Township 54, Range 42, Miami-Dade County, Florida 33149.**

**PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CWP)**    See attachment ☐

Engineer/Department or Agency's estimated required workforce for Project ☐ Work Order ☐:

Trade/Skills Required	Est. # of workforce required per trade	Est. # of total days to complete job
N/A		
N/A		
N/A		

Comments:Specialized mechanical work involving sophisticated variable Frequency Drive units and controls. The project is required under the USEPA Consent Decree and must be in service by May 8, 2018.

**PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE)**    See attachment ☒

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
<b>Construction</b>	\$2,032,245	8.66%	
<b>G &amp; S</b>	\$337,100	1.44%	
	\$	0%	

**RECOMMENDATION**

**Set-Aside:** Level 1 ☐ Level 2 ☐ Level 3 ☐ Trade Set-Aside ☐ Sub-Contractor Goal ☒ Workforce Goal ☐ No Measure ☐

**Basis for Recommendation: This project involves the construction of 2 electrical substations, 5 electrical buildings and 5 sludge pumping stations, land many large expensive mechanical process and electrical equipment necessary for the proper functioning of the secondary clarifiers as required by the USEPA Consent Decree.**

**Date submitted to DBD: 01/31/2018**

**Contact Person: Isaac Smith**

**Telephone No.: (786)552-8989**

**DEPARTMENTAL INPUT**  
**CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

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

From: Isaac Smith, Sr. Program Manager  
Construction Contracts Section

Department: Miami-Dade Water and Sewer Department

Contract Title: CD 2.08 SECONDARY CLARIFIERS PLANT 2, CD 2.10 RETURN SLUDGE PS PLANT 2, AND CD 2.01(3) ELECTRICAL IMPROVEMENTS

Contract No.: S-892

Estimate Amount: \$ \$23,471,382 [\$21,337,620 Construction + \$2,133,762 Contingency]

Funding Source: EW 660, WASD Revenue Bonds Sold

<b>Small Business Enterprise – Construction – 8.66%</b> <b>Analysis for Recommendation (Attached)</b>
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Department Head or Authorized Agent

**DESCRIPTION OF PROJECT:**

This project is one in a series of projects that are being processed under Section 2-8.2.12 of the Code, entitled Miami-Dade Water and Sewer Department Consent Decree and Capital Improvement Programs Accelerate Ordinance.

In general, the project consists of furnishing all materials, labor, and equipment necessary for Plant 2 Return Activated Sludge (RAS) Pump Stations and Secondary Clarifiers Improvements at the Central District Wastewater Treatment Plant (CDWWTP), located in Virginia Key, 3989 Rickenbacker Causeway, Section 16, Township 54, Range 42, Miami-Dade County, Florida 33149.

The scope of work includes, but is not limited to, furnishing all material, labor, and equipment necessary for the construction of RAS Pump Stations Nos. 1 through 5, Electrical Building RAS Nos. 1 & 2, Electrical Building RAS Nos. 3, 4, & 5, the Odorizing Control Building and Electrical Substations 9 and 10 at the Central District Wastewater Treatment Plant. The project also includes the rehabilitation of the RAS Pump Stations and generally includes the replacement and/or refurbishment of existing physical equipment to a condition approaching that of new, the construction of the new Electrical Buildings, and Substations 9 and 10 to house proposed motor control centers (MCCs), variable frequency drives (VFDs) and other electrical components; Installation of new air conditioning and air filtration units to Electrical Building RAS No. 1 & 2, and Electrical Building RAS No. 3, 4, & 5; Installation of new air ventilation supply, exhaust fans, and associated ductwork for Pump Stations Nos. 1 through 5 and the Odorizing Control Building; Installation of new pumping equipment, piping, valves, and appurtenances located in each of the five RAS Pump Stations, including replacement of the twenty (20) RAS pumps, the existing RAS pump seal water system, and all sump pumps; Installation of new pumping equipment, piping valves, and appurtenances in the Odorizing Control Building, including replacement of a potable water booster pump, four (4) filters, two (2) chemical injection pumps, and four (4) high pressure pumps; all major

electrical equipment for Electrical Building RAS No. 1 & 2, including two (2) Motor Control Centers (MCCs), each configured in a main-tie-tie-main set-up, and eight (8) 25 HP Variable Frequency Drives (VFDs); all major electrical equipment for Electrical Building RAS No. 3, 4, & 5, including three (3) MCCs and two (2) switchgears, each configured in a main-tie-tie-main set-up, twelve (12) 25 HP VFDs, and two (2) 1500 KVA substation transformers; Installation of Remote Terminal Units (RTUs) and Auxiliary Control Panels; Furnishing and installation of all flow meters, pressure gauges, pressure switches, level switches, and flow switches as required; along with all other miscellaneous and appurtenant items and work for a complete and satisfactory installation.

#### **QUALIFICATIONS OF BIDDERS:**

Bidders shall submit proof of experience as requested below:

- a. The Contractor or Contractor's Electrical Subcontractor shall have successfully completed a minimum of three (3) projects demonstrating experience with installation of electrical equipment rated for 13.2KV and 480V power supply.

**LICENSES:** The types of licenses required are: General Engineering, General Building Contractor and/or other categories as applicable by Chapter 489 of the Florida Statutes or Chapter 10 of Miami-Dade County Code.

#### **COMMUNITY WORKFORCE PROGRAM**

**CWP PARTICIPATION: Not Applicable, project is not located in a DTA.**

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**CONSIDERATIONS**

1. The work shall be executed while the wastewater plant is in operation. The contractor's activities shall not adversely affect the operations or impact the treatment capacity of the plant.
2. Portions of the work will be within facilities with electrical power and equipment rated for medium and high voltage (i.e. 13.2KV and 480V)
3. Portions of the work will be within the Chlorination Building and specialized training is required when performing construction in the vicinity of chlorine.
4. The Department has evaluated the project for possible opportunities for participation in the area of SBE-Goods and Services. The possible areas of subcontracting are summarized in the table below.

<b>Analysis for Small Business Enterprise – Goods and Services Recommendation</b>				
<b>Item</b>	<b>Goods &amp; Services</b>	<b>Prime Contractor</b>	<b>Sub-Contractor</b>	<b>SBE Availability</b>
<b>1.</b>	<b>GOODS:</b> Building Structural Mechanical Process Equipment Building Electrical Instrumentation & Controls HVAC Electrical Switchgear Instrumentation & Controls Piping, Valves & Fittings Metering pumps Doors, windows, etc	X X X X X  X X	X  X X X X X	X  X X X X X X
<b>2.</b>	<b>SERVICES</b> Structural Electrical Instrumentation Systems Integration Roofing Hauling Air Conditioning Chemical Pumping & Metering Civil Site work Utility Piping Finishing Painting Plumbing	X X X X X  X X X X	X X X X X X X X X X X	X X   X X X X X X X