

**DEPARTMENTAL INPUT
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

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: Clarifiers and HLD (ST-2B) South District Wastewater Treatment Plant

Contract No.: S-933

Estimate \$38,537,750 (Construction \$33,175,000 + Allowances & Contingency \$5,362,750)

Funding Source: EW 101

Small Business Enterprise – Construction – 1.5%
Analysis for Recommendation (Below)



Department Head or Authorized Agent

DESCRIPTION OF PROJECT:

This is an Ocean Outfall project that consists of furnishing all labor, materials and equipment necessary for the construction of a new chlorine contact chamber (CCC 10); construction of wellheads for 3 new injection wells (drilled by others); construction of a 72-inch pipeline to serve as an interconnect between the north and south sides of the effluent loop including a concrete vault for a flowmeter; construction of a 108-inch prestressed concrete cylinder pipe from the filter effluent flume to the CCCs influent pipe near CCC 9; associated yard piping; and overall site civil grading and drainage improvements at the South District Wastewater Treatment Plant owned by the Miami Dade Water and Sewer Department (WASD) and located at 23300 SW 88th Avenue Miami, FL 33032.

LICENSES REQUIRED:

Below are the types of Licenses that may be required for the execution of this Work. The trades authorized by each individual license may overlap with other licenses listed. Therefore, not all the licenses may be required as long the scope of work is covered by the licenses presented by the General Engineering Contractor and/or his subcontractors.

- a. General Engineering Contractor
- b. Plant Construction Engineer Contractor
- c. Pipeline Engineering Contractor
- d. Structural Engineering Contractor
- e. Pile Driving and Foundation Engineering Contractor
- f. Paving Engineering Contractor
- g. Excavating and Grading Engineering Contractor
- h. Electrical Contractor
- i. Soil Compaction and Tamping Engineering
- j. Demolition Contractor
- k. And/or other categories as applicable by Chapter 489 of the Florida Statutes or Chapter 10 of Miami-Dade County Code

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MINIMUM EXPERIENCE REQUIRED:

The Bidder must have successfully completed the construction and/or rehabilitation of a minimum of three (3) projects in construction at wastewater treatment facilities with capacities of 10-MGD or larger with secondary treatment process within the last ten (10) years. The projects must have included installation of process equipment including wellhead equipment, construction of chlorine contact chambers, and installation of stainless steel and cast-iron sluice gates (with dimensions of 48"x48" opening or larger). In addition, experience is required with the installation of 48-inch through 108-inch diameter prestressed concrete cylinder pipe. The Bidder shall be experienced in performing work while maintaining operations of a wastewater facility.

The bidder or bidder's electrical subcontractor shall have successfully completed a minimum of three (3) projects demonstrating experience with installation of medium and low voltage electrical power systems.

In the event a firm is established by executives, supervisors, and other senior field staff (key employees) that would have met these minimum experience requirements with a prior firm, OWNER reserves the right to qualify the firm based on OWNER's sole determination and evaluation of the knowledge and prior experience of these key employees employed by the new firm. The experience of key senior personnel with other firms may be counted towards the experience requirement, if acceptable to the ENGINEER. Should such evidence not be satisfactory to the ENGINEER, whose decision shall be final, the bid will be considered non-responsive, and the second lowest bidder will be considered for award. The qualifying proof shall be submitted in a separate sealed envelope with the bid.

CONSIDERATIONS FOR ANALYSIS OF PROPOSED CONSTRUCTION GOALS:

1. The Department has evaluated the project for possible opportunities for SBE – Construction participation. Based on the scope and nature of the work, we have concluded that there are limited opportunities for participation on this project.
 - The relatively small distribution of SBE is due to the specialized nature and complexity of wastewater treatment equipment and structures that are included in this project, and the large diameter pipelines that will be installed
 - The expected construction items available for the SBEs are limited compared to other conventional projects.
 - The trades/services recommended for SBE Construction availability included the following: demolition, hauling of excavated material, earthwork and site preparation, small diameter PVC piping, metal railings and grates, HVAC systems without cooling towers, erosion control measures, grading, and asphalt pavement, among others.
 - The Scope of Work of the project consist mainly in the construction of a chlorine contact tank. The chlorine contact tank is a specialized wastewater treatment structure which construction is not recommended to be performed by SBEs.
 - Most to the pipelines to be installed range between 72-inch and 108-inch diameter. This work is not recommended for SBEs.
2. The project site shall be within an existing treatment facility.

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ID	OPCC Item	OPCC Amount	% of Construction	SBE Construction-Availability (\$)	SBE Construction-Availability (%)	Description of SBE Construction Work
1	Mobilization	\$1,579,000.00	3%	\$0.00	0.00%	None
2	Chlorine Contact Chamber	\$4,803,000.00	14%	\$374,710.00	7.80%	Site demolition, Pavement, Restoration, Asphalt Milling, Minor Utilities and Sodding
				\$89,040.00		Sitework Demolition
				\$119,780.00		Sitework, grading and drainage
				\$56,180.00		Sodding
				\$93,810.00		Asphalt Pavement, Limerock Base and Subgrade Prep
				\$15,900.00		Asphalt Milling
				\$374,710.00		Subtotal
3	Injection Wells	\$1,737,000.00	5%	\$111,300.00	6.41%	Concrete Slab
				\$111,300.00		Form and Pour Concrete Slab
				\$111,300.00		Subtotal
4	72" PCCP	\$15,580,000.00	47%	\$0.00	0.00%	
5	108" PCCP	\$9,476,000.00	29%	\$0.00	0.00%	
	Total	\$33,175,000.00		\$486,010.00		
	% Total			1.5%		

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Small Business Enterprise – Goods & Services – 1.56%

Analysis for Recommendation (Below)



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CONSIDERATIONS FOR ANALYSIS:

1. The Department has evaluated the project for possible opportunities for SBE – Goods and Services participation. Based on the scope and nature of the work, we have concluded that there are limited opportunities for participation on this project.
 - The relatively small distribution of SBE is due to the specialized nature and complexity of wastewater treatment equipment and structures that are included in this project, and the large diameter pipelines that will be installed
 - The expected Goods and Services items available for the SBEs are limited compared to other conventional projects.
 - The trades/services recommended for SBE - G&S availability included the following: demolition, hauling of excavated material, earthwork and site preparation, small diameter PVC piping, metal railings and grates, HVAC systems without cooling towers, erosion control measures, grading, and asphalt pavement, among others.
 - The Scope of Work of the project consist mainly in the construction of a chlorine contact tank. The chlorine contact tank is a specialized wastewater treatment structure,

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the construction of which provides few G&S opportunities for SBEs.

- Most to the pipelines to be installed range between 72-inch and 108-inch diameter, providing few G&S opportunities for SBEs.

2. The project site shall be within an existing treatment facility.

Analysis for SBE – Goods and Services					
Recommendation - 1.56%					
ID	OPCC Item	OPCC Amount	SBE G&S - Availability (\$)	SBE G&S Availability (%)	Description of SBE Goods & Services Work
1	Mobilization	\$1,579,000.00	\$159,000.00	10.1%	Vacuum Truck and Driver
2	Chlorine Contact Chamber	\$4,803,000.00	\$225,356.00	4.7%	Furnish aggregates, metal railings, silt fence and filter fabric
			\$9,540.00		Filter Fabric furnish and install
			\$15,900.00		Furnish and Haul No. 57 Stone
			\$177,656.00		Metal Railing and Grates Fabrication and Installation
			\$22,260.00		Silt Fence
3	Injection Wells	\$1,737,000.00	\$0.00	0.0%	
4	72" PCCP	\$15,580,000.00	\$99,640.00	0.6%	Furnish Aggregates
			\$99,640.00		Furnish and Haul No. 57 Stone
					Subtotal
5	108" PCCP	\$9,476,000.00	\$34,980.00	0.4%	Furnish Aggregates
			\$34,980.00		Furnish and Haul No. 57 Stone
	Total	\$33,175,000.00	\$518,976.00		
	% Total		1.56%		