

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-880**

*Reference corresponding project number when submitting a work order

Contract/Project Title: **CD 2.03 AND 2.04 PLANT 1 AND PLANT 2 HEADWORKS UPGRADES, 2.18(1) ODOR CONTROL SYSTEMS AND 2.25(2) VENTILATION IMPROVEMENTS**

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

Estimated Cost: **20942774** Funding Source: **Other (specify)**

Location of Project (street address or beginning and ending points) i.e. 12345 NE 23rd Ct or Starts at 135 St. ends at 145 St.
3989 Rickenbacker Causeway, Virginia Key, 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: Not Applicable. Project is not in a DTA.

PROJECT ANALYSIS FOR GOAL RECOMMENDATION (CSBE) See attachment

Sub-Trade	Est. Cost	% of Item to Base Bid	Availability
0	\$	0%	
0	\$	0%	
0	\$	0%	

RECOMMENDATION

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

Basis for Recommendation: Availability among SBE subcontractors.

Date submitted to DBD: 04/21/2016

Contact Person: Isaac Smith

Telephone No.: 786-552-8255

**DEPARTMENTAL INPUT
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

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

From: Isaac Smith, Manager
Construction Contracts Section

Department: Miami-Dade Water and Sewer Department

Contract Title: CD 2.03 AND 2.04 PLANT 1 AND PLANT 2 HEADWORKS UPGRADES, 2.18(1)
ODOR CONTROL SYSTEMS AND 2.25(2) VENTILATION IMPROVEMENTS

Contract No.: S-880

Estimate Amount: \$20,942,774.60 [\$19,038,886.00 Construction + \$1,903,888.60 Contingency]

Funding Source: EW 621, Renewal and Replacement Fund

Small Business Enterprise – Construction – 10.85%
Analysis for Recommendation (Attached)



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 1 and Plant 2 Headworks 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 Headworks for the plant is the first of several treatment processes. It includes screening, primary sludge dewatering, transfer of waste activated sludge and odor control.

The scope of work includes, but is not limited to, performing structural modifications within the bypass channel and grit chamber at headworks for both plants; installation of owner furnished equipment to include eight (8) perforated plate screens, four (4) sluice conveyance systems, four (4) washer compactors and two (2) remote terminal units (RTU's); furnishing and installation of six (6) blowers, sixteen (16) stop gates, six (6) slide gates, four (4) rectangular butterfly valves, two (2) booster pumping system for screens, watermain extensions at both plants with back flow, flowmeter and bypass assembly to supply water to screens; constructing new electrical building and apurtenances; odor control equipment, tanks, ductwork, rollup door replacement, refurbishment of chemical unloading stations within existing air scrubber building area at headworks for plants, performing piping modifications and providing knife gate valves with motor operators at Plant 2 Oxygenation Tank area for each of the four trains; performing RAS line replacement and installing new RAS piping, plug valves with motor operators, flowmeters at Plant 2; installing gas detectors at existing air scrubber and headworks buildings; and making ventilation improvements at the existing air scrubber buildings.

QUALIFICATIONS OF BIDDERS:

Bidders shall submit proof that his/her firm has at least the minimum successful contract experience as requested below for this Contract being bid. Such proof shall consist of a list of projects, completed prior to the bid date, with the name and telephone numbers of the owners or representatives that can confirm the listed experience. In order for the list to be considered complete, information must be included to demonstrate that the listed projects comply with the following:

- a. Bidders shall have completed the construction and/or rehabilitation of a minimum of three (3) screening systems within the last ten (10) years with a minimum total construction cost of \$5,000,000 for each project. This could include up to two (2) projects that are currently active and at least 50% complete prior to Bid date of this solicitation.
- b. Bidders shall have a minimum of two (2) installations demonstrating experience in retrofitting preliminary treatment equipment installing screens and compacting equipment in an operating wastewater treatment facility without taking the facility out of service.
- b. One (1) of the listed projects shall demonstrate experience working in a confined space, hazardous areas such as performing structural modifications to an operational raw sewage channel.
- c. One (1) of the listed projects shall include doing work in NFPA 820 Class 1, Division 2 areas.

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.

Analysis for SBE - Construction					
Recommendation - 10.85% SBE Construction					
Item	Description	Estimated Cost	% of Item to SBE Total	SBE Constr % per Item	SBE Constr Dollars
A)	Mobilization & Demobilization	\$ 2,797,152.00	13.36%		
B)	Plant 1 Headworks Modifications	\$ 2,606,550.00	12.45%	1.70%	\$ 356,040.00
C)	Plant 2 Headworks Modifications	\$ 2,513,061.00	12.00%	1.31%	\$ 275,150.00
D)	Plant 1/2 Electrical Building Construction	\$ 3,169,365.00	15.13%	4.44%	\$ 930,150.00
E)	Plant 1/2 Scrubber Building Improvements	\$ 3,353,701.00	16.01%	1.89%	\$ 396,190.00
F)	Plant 1/2 LEL Detector and Hydrogren Sulfide System	\$ 224,020.00	1.07%		
G)	Exhaust Fans - Plant 1/2 Scrubber Building	\$ 4,859.00	0.02%	0.02%	\$ 4,859.00
H)	Plant 2 - Oxygenation Train Improvements	\$ 3,713,127.00	17.73%	1.01%	\$ 212,390.00
I)	24" Dia. Piping Connection to 84" Bypass Line at Plant 2	\$ 572,051.00	2.73%	0.46%	\$ 96,680.00
J)	Mitlgaion of Contaminated Soils	\$ 85,000.00	0.41%		
	Subtotal	\$ 19,038,886.00		SBE-Value	\$ 2,271,459.00
	10% Allowance Account	\$ 1,903,888.60	9.09%	SBE-Contr	10.85%
	SBE - Total	\$ 20,942,774.60	100.00%		
	Dedicated Allowance Items	\$ 1,671,166.58			
	Project Total	\$ 22,613,941.18	Note: See Exhibit "A", attached for recommended SBE participation.		

EXHIBIT A
AREAS OF PARTICIPATION FOR SBE CONSTR
CONTRACT W-880

B Plant 1 Headworks Modifications:	Selective Structural Demo	\$	68,180
	Metals: Alum. Railing & Checkered Plate	\$	25,590
	General Electrical	\$	49,850
	Import Bedding	\$	2,110
	Import Structural Fill	\$	7,430
	Hauling Spoils	\$	25,330
	Utility Piping	\$	43,550
	Patch/Repair Concrete Surface	\$	60,000
	Sidewalk	\$	12,000
	Backflow Preventer & Water Meter	\$	62,000
	Subtotal	\$	356,040
C Plant 2 Headworks Modifications	Selective Structural Demo	\$	70,200
	Metals: Alum. Railing & Checkered Plate	\$	26,400
	General Electrical	\$	26,990
	Import Bedding	\$	2,110
	Import Structural Fill	\$	7,430
	Hauling Spoils	\$	25,330
	Utility Piping	\$	41,690
	Patch/Repair Concrete Surface	\$	75,000
Subtotal	\$	275,150	
D Plant 1/2 Electrical Building	General Sitework	\$	10,600
	Hauling	\$	5,540
	Demo AC Paving	\$	27,850
	Silt Fencing	\$	5,350
	8" CMU & Masonry.	\$	146,200
	Metals - Alum Ladder, Railing, etc.	\$	28,800
	Roof Deck Insulation & Membrane Roofing	\$	30,400
	S.S. Parapet Flash & Downspouts	\$	27,000
	Finishes - Stucco	\$	190,450
	Finishes - Painting	\$	18,600
	HVAC & Aluminum Ductwork	\$	29,900
	Louvers	\$	6,400
	Plumbing: Backflow Preventer	\$	3,000
	Plumbing: HVAC Drain & Water Piping	\$	14,100
	General Electrical	\$	251,900
	Structural Excavation	\$	11,100
	Backfill	\$	8,220
Hauling	\$	8,840	

	Site Dev.: Grading/Compaction	\$	73,400
	Roadway Base	\$	20,400
	Asphaltic Concrete Paving	\$	12,100
		Subtotal	\$ 930,150
E Plant 1/2 Scrubber Building Improvements:			
	Equipment Demolition	\$	40,500
	Hauling Debris – Offsite	\$	8,200
	General Demo	\$	42,920
	Structural	\$	17,550
	Painting	\$	17,150
	Exhaust Fans	\$	15,630
	Scrubber Fans	\$	254,240
		Subtotal	\$ 396,190
G Exhaust Fans – Plant ½ Scrubber Bldg			
	HVAC: Fan Replacement	\$	4,859
		Subtotal	\$ 4,859
H Plant 2 Oxygenation Train Improvements			
	Concrete Work & Demo	\$	12,980
	Painting & Coating	\$	2,070
	General Earthwork	\$	7,470
	Import Bedding	\$	25,600
	Hauling Spoils – Disposal	\$	13,970
	Utility Piping	\$	119,500
	Paving	\$	19,300
	Sodding	\$	16,500
		Subtotal	\$ 212,390
I 24" Dia. Piping Connection to 84" Bypass Line at Plant 2			
	Paint Pipe	\$	1,380
	Bedding	\$	2,200
	Pipe Crew	\$	26,700
	Hauling Spoils – Disposal	\$	1,600
	24" Dia. Pipe & Fittings	\$	64,800
		Subtotal	\$ 96,680
		TOTAL VALUE – SBE CONSTR	\$ 2,271,459

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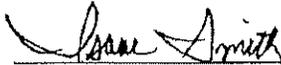
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