

**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: CDWWTP Chlorination Facilities
Consent Decree Project 2:17

**RESUBMITTAL
12/15/15**

Contract No.: S-890

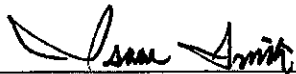
Estimate Amount: \$ 14,202,415.30 (See Breakdown below)

[\$12,550,810.00 Construction + \$ 1,255,081.00 Contingency + \$ 396,524.30 Dedicated Allowance]

Funding Source: EW 658, WASD Revenue Bonds Sold

Small Business Enterprise – Construction – 5.00%

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 2-8.1.12 of the Code, entitled Miami-Dade Water and Sewer Department Consent Decree and Capital Improvement Programs Accelerate Ordinance.

The scope of work consist of furnishing all materials, labor and equipment necessary for the construction of the Consent Decree Project 2.17, Chlorination Facilities 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 facilities will be a new construction and will replace the existing chlorine gas facilities used for disinfection throughout the plant. The purpose of the facilities will be to provide storage of concentrated liquid sodium hypochlorite and to provide the metering pumps to serve the necessary discharge points throughout the plant.

This project includes the construction of three (3) new buildings, on auger cast pile foundation: two buildings at site 1 and one (1) at Site 2. The Site 1 bulk storage building will not have any roof or walls above elevation 20.3. The Site 1 mechanical electrical building will be completely roofed and will be a split elevation building. Site 2 satellite facilities is smaller and will be open-sided on the tank storage area, and will be roofed and on the mechanical/electrical room. The entire extent of the satellite building will be roofed and will have a monorail system for tank to allow tank removal. The project includes sixteen (16) 20,000 FRP tanks, four (4) 2,500 gallon HDPE tanks, motor operated diaphragm metering pumps, spill containment troughs, spill containment pumps, magnetic drive pumps, installation of variable frequency drives, motor control centers, transformers, low voltage control panels, electrical switchboards, breakers, starters, lighting, grounding and lightning protection.

QUALIFICATIONS OF BIDDERS:

Bidders shall demonstrate relevant minimum experience by submitting proof with their bid contract experience as required below:

- a. Bidder shall be experienced in chemical storage and metering facilities, specifically for sodium hypochlorite applications.
- b. Bidders must have successfully completed the construction and/or rehabilitation of a minimum of three (3) chemical storage and metering facilities within the last ten (10) years.
- c. The Bidder or Bidder's Electrical Subcontractor shall have successfully completed a minimum of three (3) projects demonstrating experience with installation of electrical equipment rated for 480V power supply.

LICENSES: The types of licenses required are: State General Contractor, General Engineering 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, as Project is not in a DTA

Contract S-890 - ANALYSIS FOR SBE - CONSTRUCTION					
RECOMMENDATION 5% SBE - CONSTRUCTION					
Item	Description	Estimated Cost	% of Item to Base Bid	REVISED SBE - %	SBE-Contr.
A)	GENERAL SITEWORK				
1)	Fencing				
	Fence Removal, Chain Link Fence, Silt Fence	7,800.00	0.06%	0.06%	SBE
2)	Asphaltic Concrete Paving	43,740.00	0.36%	0.32%	SBE
3)	Concrete Sidewalk	17,460.00	0.14%	0.13%	SBE
4)	Yard Chemical Piping				
	Chemical Vaults, HDPE Piping & Fittings	908,320.00			
5)	Yard Chemical Instrumentation				
	Instrumentation, Calibration & Programming	174,250.00			
B)	SITE 1 BUILDINGS				
1)	Piling System - Large Chemical Facility				
	Constr. 192 - 16" Dia. Auger Cast Piles & appurt.	488,860.00			
2)	Piling System - Small Chemical Facility				
	Constr. 48 - 16" Dia. Auger Cast Piles & appurt.	146,890.00			
3)	Sanitary Sewer	10,040.00	0.08%	0.07%	SBE
4)	Potable Water	28,610.00	0.23%	0.21%	SBE
5)	Chlorination Bldg Instrumentation & Controls	635,990.00			
6)	Architectural - Large Bldg				
	a) Trough Grating	5,030.00			
	b) Silicone Sprayed Waterproofing	7,970.00	0.06%	0.06%	SBE
	c) Painting	43,170.00	0.35%	0.31%	SBE
7)	Architectural - Small Bldg				
	a) Precast Roof Beams	111,790.00			
	b) Silicone Sprayed Waterproofing	5,710.00	0.05%	0.04%	SBE
	c) Painting	12,280.00	0.10%	0.09%	SBE
	d) Interior Partition Wall (CMU Block)	16,150.00	0.13%	0.12%	SBE
	e) Trough Grating	3,360.00			
	f) Membrane Roofing System	29,160.00	0.24%	0.21%	SBE
	g) Louvers	2,260.00			
	h) Doors (Frames, Doors & Panic Hardware)	10,650.00	0.09%	0.08%	SBE

8)	Structural - Large Bldg.					
	a)	Continuous Footing, Spread Footing & Appurt.	452,380.00			
	b)	Loading Dock	25,320.00			
	c)	Trough Walls	7,520.00			
	d)	Perimeter Walls w/ Pileasters	259,580.00			
	e)	Aluminum Floor Grating - 1.5" & 2"	28,750.00			
	f)	Metal Platform	178,980.00			
	g)	Exterior Aluminum Stairs	21,830.00			
9)	Structural - Small Bldg.					
	a)	Spread Footing & Appurtenances	156,450.00			
	b)	Equipment Pads	26,890.00	0.22%	0.19%	SBE
	c)	Structural Beams	196,950.00			
	d)	Trough Walls	33,860.00			
	e)	CIP Exterior Concrete Walls	175,270.00			
	f)	Roof Deck (Suspended Slab)	94,240.00			
	g)	Aluminum Stairs	24,690.00			
	h)	Aluminum Floor Grating - 1.5"	12,750.00			
10)	Process Mechanical					
	a)	FRP Chemical Tanks (20,000 gal tanks)	1,547,290.00			
	b)	CPVC Pipe & Fittings w/ Viton O-Rings	110,470.00			
	c)	Mechanical Processing Equipment	285,285.00			
	d)	Spill Sump Pump	24,620.00			
	e)	3 Ton - Bride Crane w/ Trolley & Hoist - 30' Span	64,900.00			
	f)	7.5 Ton - Bride Crane w/ (2) Trolley & Hoist-62' Span	122,750.00			
	g)	Chemical Metering Pump Skid	334,120.00			
11)	HVAC					
	a)	2 - Air Conditioning Units, Water Cooled, 72.1 MBH, 2300 CFM (louvers, dampers & NACIO Room Fans)	135,470.00			
	b)	Cooling Tower	24,480.00			
	c)	FRP Ductowrk	544,590.00			
12)	Electrical					
	a)	General Electric & Lighting	48,660.00	0.40%	0.35%	SBE
	b)	600V Breakers, MCC, Panelboard, Heavy Duty Safety Switch, Variable Frequency Drives	610,660.00			
13)	Plumbing					
	a)	Potable Water & Emergency Shower	52,890.00	0.43%	0.38%	SBE
	b)	Floor Drain	18,070.00	0.15%	0.13%	SBE
14)	Fire Protection System		86,916.00			
C)	SITE 2					
1)	Sitework					

	a)	16" Dia. Auger Cast Piles & appurt.	55,490.00			
	b)	Spread Footing & Appurtenances	15,750.00			
	c)	Potable Water	6,010.00	0.05%	0.04%	SBE
2)	Instrumentation & Controls					
		Instrumentation, Calibration & Programming	174,250.00			
3)	Architectural					
	a)	Precast Roof Beams	40,060.00			
	b)	Silicone Sprayed Waterproofing	4,080.00	0.03%	0.03%	SBE
	c)	Paint - Concrete Surfaces	7,480.00	0.06%	0.05%	SBE
	d)	Interior Partition Wall (CMU)	13,620.00	0.11%	0.10%	SBE
	e)	Metal Grating	2,140.00			
	f)	Membrane Roofing	16,210.00	0.13%	0.12%	SBE
	g)	Doors (Frames, Doors & Panic Hardware)	10,300.00	0.08%	0.07%	SBE
	h)	OH Doors Electric Operated	56,660.00			
	i)	Louvers	2,260.00			
4)	Structural					
	a)	Sidewalk	2,500.00	0.02%	0.02%	SBE
	b)	Structural Beams & Spread Footings	120,160.00			
	c)	Equipment Pads	18,440.00	0.15%	0.13%	SBE
	d)	Short Perimeter CIP Walls	76,130.00			
	e)	Trough Walls	56,530.00			
	f)	Sump Walls	1,160.00			
	g)	CIP Exterior Walls	67,890.00			
	h)	Roof Deck	39,670.00			
	i)	Metal Grating	10,050.00			
	j)	Aluminum Stairs	115,340.00			
5)	Process Mechanical					
	a)	FRP - Chemical Tanks (2,500 Gal. Tanks)	40,280.00			
	b)	Mechanical Processing Equipment	33,230.00			
	c)	Tank - Feed Pump	12,450.00			
	d)	Chemical Metering Pump Skid	133,650.00			
	e)	Monorail Sys. w/ Trolley & Hoist (2 Ton)	27,250.00			
6)	HVAC					
		Ductless Split Sys. (21.5 MBH, 645 cfm) - 2	14,440.00	0.12%	0.10%	SBE
7)	Electrical					
	a)	480V Transformer, Local Control Panel, VFD & MCCs	149,580.00			
	b)	Gen. Electric & Lighting	4,760.00	0.04%	0.03%	SBE
8)	Plumbing					

		Potable Water	16,500.00	0.13%	0.12%	SBE
9)	Fire Protection					
		Fire Protection System	59,530.00			
D)	SITE 3					
1)	Sitework					
	a)	Constr. - 16" Dia. Auger Cast Piles System	45,280.00			
	b)	Spread Footing & Appurtenances	37,580.00			
	c)	Potable Water	5,650.00	0.05%	0.04%	SBE
2)	Instrumentation & Controls					
		Instrumentation, Calibration & Programming	65,350.00			
3)	Architectural					
	a)	Precast Roof Beams	75,620.00			
	b)	Silicone Sprayed Waterproofing	3,620.00	0.03%	0.03%	SBE
	c)	Paint - Concrete Surfaces	7,480.00	0.06%	0.05%	SBE
	d)	Interior Partition Wall (CMU)	13,620.00	0.11%	0.10%	SBE
	e)	Metal Grating	4,110.00			
	f)	Membrane Roofing	18,890.00	0.15%	0.14%	SBE
	g)	Doors (Frames, Doors & Panic Hardware)	10,310.00	0.08%	0.07%	SBE
	h)	OH Doors Electric Operated	56,660.00			
	i)	Louvers	2,260.00			
4)	Structural					
	a)	Spread Footing & Appurt.	147,710.00			
	b)	Equipment Pads	25,900.00	0.21%	0.19%	SBE
	c)	Short Containment CIP Walls	89,240.00			
	d)	Trough Walls	41,290.00			
	e)	Roof Deck	59,550.00			
	f)	CIP Exterior Walls	91,950.00			
	g)	Metal Grating	17,300.00			
	h)	Aluminum Stairs	13,900.00			
5)	PROCESS MECHANICAL					
	a)	FRP - Chemical Tanks (2,500 Gal. Tanks)	40,280.00			
	b)	Truck Fill	5,090.00			
	c)	Mechanical Process Equipment	44,990.00			
	d)	Tank - Feed Pump	22,640.00			
	e)	Chemical Metering Pump Skid	133,649.00			
	f)	Monorail Sys. w/ Trolley & Hoist (2 Ton)	27,250.00			
6)	HVAC					
		Ductless Split Sys. (36.0 MBH, 770 cfm) - 2	16,540.00	0.13%	0.12%	SBE

	7)	Electrical				
		a)	Local Control Panel, Variable Frequency Drives & MCCs	123,600.00		
		b)	Gen. Electric & Lighting	14,300.00	0.12%	0.10% SBE
	8)	Plumbing				
		a)	Potable Water	16,610.00	0.14%	0.12% SBE
		b)	Floor Drain	6,830.00	0.06%	0.05% SBE
	9)	Fire Protection				
			Fire Protection System	59,540.00		
E)	FIELD TRAILER					
	1)	Quad Trailer (60'x 48')				
			Includes trailer design, delivery, permitting, HVAC, installation, interior furnishings & set-up and connection	330,000.00		
	2)	Site Preparation				
			Includes Backfill, compaction, gravel & preparation of parking area	40,000.00		0.29% SBE
	3)	ADA Ramp Construction		8,000.00		0.06% SBE
	4)	Janitorial Services (for approx. 20 mos.)		30,000.00		
F)	MOBILIZATION			919,250.00		
			SUBTOTAL	12,550,810.00	5.16%	4.94%
			CONTINGENCY (10%)	1,255,081.00	Initial Goal	Revised Goal
			SBE - TOTAL	13,805,891.00		
			DEDICATED ALLOWANCE	376,524.30		
			PROJECT GRAND TOTAL	14,202,415.30		

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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: CDWWTP Chlorination Facilities
Consent Decree Project 2.17

**RESUBMITTAL
12/15/15**

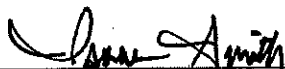
Contract No.: S-890

Estimate Amount: \$ 14,202,415.30 (See Breakdown below)

[\$12,550,810.00 Construction + \$ 1,255,081.00 Contingency + \$ 396,524.30 Dedicated Allowance]

Funding Source: EW 658, WASD Revenue Bonds Sold

Small Business Enterprise – Goods & Services – 1.75%
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 2-8.1.12 of the Code, entitled Miami-Dade Water and Sewer Department Consent Decree and Capital Improvement Programs Accelerate Ordinance.

The scope of work consist of furnishing all materials, labor and equipment necessary for the construction of the Consent Decree Project 2.17, Chlorination Facilities 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 facilities will be a new construction and will replace the existing chlorine gas facilities used for disinfection throughout the plant. The purpose of the facilities will be to provide storage of concentrated liquid sodium hypochlorite and to provide the metering pumps to serve the necessary discharge points throughout the plant.

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 in the area of Piling Systems, Structural, Electrical, Instrumentation, Roofing, Coating & Waterproofing, Sidewalk Construction and Paving. Our recommendation is in the area of Goods: for Doors and Fencing; and Services: for Cleaning/Janitorial, Concrete Sidewalk, Paving, Roofing, Painting, Waterproofing and HVAC for the project.

Analysis for Small Business Enterprise – Goods and Services Recommendation				
Item	Goods & Services	Prime Contractor	Sub-Contractor	SBE Availability
1.	GOODS: Precast Structural Members Mechanical Process Equipment Electrical Switchgear Instrumentation & Controls Doors Chain Link Fence	X X X	 X X X	 X X
2.	SERVICES Auger Cast Piling Structural Electrical Instrumentation Roofing Concrete Sidewalk Paving Painting Waterproofing HVAC & Plumbing Fire Protection Janitorial	 X	X X X X X X X X X X X	 X X

White Jr., Tyrone (ISD)

From: Smith, Isaac (WASD)
Sent: Tuesday, December 15, 2015 12:31 PM
To: Rodriguez, Jean-Marie (WASD)
Subject: FW: Sample Contingent Item for WASD Contract W-890

Jean-Marie,

Please place in contract file.

Thanks,

Isaac Smith, Manager, Construction Contracts
Miami-Dade Water and Sewer Department
3071 SW 38 Ave, Suite 560B, Miami, Florida 33146
Tel. (786) 552-8255 Fax (786) 268-5186
www.miamidade.gov/water

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WWW.MIAMIDADE.GOV/WATER



From: Arturo Burbano [mailto:Arturo.A.Burbano@mwhglobal.com]
Sent: Tuesday, December 15, 2015 10:17 AM
To: Smith, Isaac (WASD)
Cc: Antonio Inojal
Subject: RE: Sample Contingent Item for WASD Contract W-890

Good morning Isaac,

Per our discussion this morning, please note the following:

1. We concur with your approach regarding the change to establish a fund and a dedicated allowance for trailer utilities. Please let us know if we need to make any related changes to the bid items from the Spec.
2. Based on a more recent quote from the vendor, the cost of the trailer has increased from \$141,000 to \$220,000. This is the only change to the breakdown sent to you earlier. Considering this information, the total costs associated with the trailer should increase by approximately \$80k (i.e., from \$408k to \$488k). Please include this modification in the final estimate.

Thank you for your help,

Arturo A. Burbano, Ph.D., PMP, BCEE
Principal Engineer
MWH
(626) 226-7641
arturo.burbano@mwhglobal.com

From: Smith, Isaac (WASD) [mailto:ISMIT01@miamidade.gov]
Sent: Tuesday, December 15, 2015 9:30 AM
To: Arturo Burbano
Cc: Antonio Inojal
Subject: RE: Sample Contingent Item for WASD Contract W-890

Morning Arturo,

Per our discussion, I would like to propose a minor change to the breakdown below related to how we will pay for **phone, internet, water, sewer and garbage** (for 20 months). Currently, the bid form has a single line item to cover all items listed below. I suggest we establish a fund to pay for these utilities as a dedicated allowance, doing so will make these bills a pass-through, without any contractor markup.

Base Construction Estimate (biddable items)	12,481,810.00
Allowance Account (for Unforeseen items 10%):	1,248,181.00
Dedicated Allowance (for Permit fees, etc. @ 3%):	374,454.30
Dedicated Allowance (for Trailer Utility Cost):	20,000.00
GRAND TOTAL	\$14,124,445.30

Note the prior base construction estimate of \$12,491,810 included a single item in the amount of \$408,000 for all items associated with the trailer.

Per our discussion, you may have more updated cost for the trailer. We have a brief moment where we can make final changes in cost. Therefore, please provide your concurrence to create a dedicated allowance for trailer utilities and feel free to provide any adjustments at this time.

Thanks,

Isaac Smith, Manager, Construction Contracts
Miami-Dade Water and Sewer Department
3071 SW 38 Ave, Suite 560B, Miami, Florida 33146
Tel. (786) 552-8255 Fax (786) 268-5186
www.miamidade.gov/water
Connect With Us on [Twitter](#) | [Facebook](#)



From: Arturo Burbano [mailto:Arturo.A.Burbano@mwhglobal.com]
Sent: Tuesday, December 08, 2015 1:06 PM
To: Smith, Isaac (WASD); Antonio Inojal
Cc: House, Jane (Consultant); Champlin, Tory (Consultant)
Subject: RE: Sample Contingent Item for WASD Contract W-890

Isaac,

Please see the following detail for the trailer and the items that are included:

*Trailer Cost (Quad Trailer 60'x48'):	\$141,000 (from vendor quote – includes delivery and set up from vendor, HVAC is included)
*Design and Permitting:	\$25,000
*Site Preparation :	\$40,000 (includes backfill, compaction, gravel and preparation of parking area)
*Installation:	\$20,000 (additional to installation from trailer provider)
*ADA Ramp Installation:	\$8,000
*Utility Connection:	\$15,000
*Interior Furnishings:	\$109,000 (per description provided)
*Janitorial services:	\$30,000 (for 20 months)
*Utility payments:	\$20,000 (phone, internet, water, sewer, garbage over 20 months)
Total:	\$408,000

Please let us know if we need to clarify further on any item.

Thank you,

Arturo A. Burbano, Ph.D., PMP, BCEE
Principal Engineer
MWH
(626) 226-7641
arturo.burbano@mwhglobal.com

Old

**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: CDWWTP Chlorination Facilities
Consent Decree Project 2.17

**RESUBMITTAL
12/9/15**

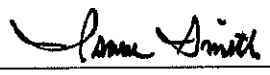
Contract No.: S-890

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Department Head or Authorized Agent

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Old

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- b. Bidders must have successfully completed the construction and/or rehabilitation of a minimum of three (3) chemical storage and metering facilities within the last ten (10) years.
- c. The Bidder or Bidder's Electrical Subcontractor shall have successfully completed a minimum of three (3) projects demonstrating experience with installation of electrical equipment rated for 480V power supply.

LICENSES: The types of licenses required are: State General Contractor, General Engineering 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, as Project is not in a DTA

old

Contract No.: S-871

Contract S-890 - ANALYSIS FOR SBE - CONSTRUCTION					
RECOMMENDATION 5% SBE - CONSTRUCTION					
Item	Description	Estimated Cost	% of Item to Base Bid	REVISED SBE - %	SBE-Contr.
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5)	Chlorination Bldg Instrumentation & Controls	635,990.00			
6)	Architectural - Large Bldg				
	a) Trough Grating	5,030.00			
	b) Silicone Sprayed Waterproofing	7,970.00	0.06%	0.06%	SBE
	c) Painting	43,170.00	0.35%	0.31%	SBE
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	a) Precast Roof Beams	111,790.00			
	b) Silicone Sprayed Waterproofing	5,710.00	0.05%	0.04%	SBE
	c) Painting	12,280.00	0.10%	0.09%	SBE
	d) Interior Partition Wall (CMU Block)	16,150.00	0.13%	0.12%	SBE
	e) Trough Grating	3,360.00			
	f) Membrane Roofing System	29,160.00	0.24%	0.21%	SBE
	g) Louvers	2,260.00			
	h) Doors (Frames, Doors & Panic Hardware)	10,650.00	0.09%	0.08%	SBE

Old

8)	Structural - Large Bldg.					
	a)	Continuous Footing, Spread Footing & Appurt.	452,380.00			
	b)	Loading Dock	25,320.00			
	c)	Trough Walls	7,520.00			
	d)	Perimeter Walls w/ Pileasters	259,580.00			
	e)	Aluminum Floor Grating - 1.5" & 2"	28,750.00			
	f)	Metal Platform	178,980.00			
	g)	Exterior Aluminum Stairs	21,830.00			
9)	Structural - Small Bldg.					
	a)	Spread Footing & Appurtenances	156,450.00			
	b)	Equipment Pads	26,890.00	0.22%	0.20%	SBE
	c)	Structural Beams	196,950.00			
	d)	Trough Walls	33,860.00			
	e)	CIP Exterior Concrete Walls	175,270.00			
	f)	Roof Deck (Suspended Slab)	94,240.00			
	g)	Aluminum Stairs	24,690.00			
	h)	Aluminum Floor Grating - 1.5"	12,750.00			
10)	Process Mechanical					
	a)	FRP Chemical Tanks (20,000 gal tanks)	1,547,290.00			
	b)	CPVC Pipe & Fittings w/ Viton O-Rings	110,470.00			
	c)	Mechanical Processing Equipment	285,285.00			
	d)	Spill Sump Pump	24,620.00			
	e)	3 Ton - Bride Crane w/ Trolley & Hoist - 30' Span	64,900.00			
	f)	7.5 Ton - Bride Crane w/ (2) Trolley & Hoist-62' Span	122,750.00			
	g)	Chemical Metering Pump Skid	334,120.00			
11)	HVAC					
	a)	2 - Air Conditioning Units, Water Cooled, 72.1 MBH, 2300 CFM (louvers, dampers & NACIO Room Fans)	135,470.00			
	b)	Cooling Tower	24,480.00			
	c)	FRP Ductowrk	544,590.00			
12)	Electrical					
	a)	General Electric & Lighting	48,660.00	0.40%	0.35%	SBE
	b)	600V Breakers, MCC, Panelboard, Heavy Duty Safety Switch, Variable Frequency Drives	610,660.00			
13)	Plumbing					
	a)	Potable Water & Emergency Shower	52,890.00	0.43%	0.38%	SBE
	b)	Floor Drain	18,070.00	0.15%	0.13%	SBE
14)	Fire Protection System		86,916.00			
C)	SITE 2					
1)	Sitework					

Old

	a)	16" Dia. Auger Cast Piles & appurt.	55,490.00			
	b)	Spread Footing & Appurtenances	15,750.00			
	c)	Potable Water	6,010.00	0.05%	0.04%	SBE
2)	Instrumentation & Controls					
		Instrumentation, Calibration & Programming	174,250.00			
3)	Architectural					
	a)	Precast Roof Beams	40,060.00			
	b)	Silicone Sprayed Waterproofing	4,080.00	0.03%	0.03%	SBE
	c)	Paint - Concrete Surfaces	7,480.00	0.06%	0.05%	SBE
	d)	Interior Partition Wall (CMU)	13,620.00	0.11%	0.10%	SBE
	e)	Metal Grating	2,140.00			
	f)	Membrane Roofing	16,210.00	0.13%	0.12%	SBE
	g)	Doors (Frames, Doors & Panic Hardware)	10,300.00	0.08%	0.07%	SBE
	h)	OH Doors Electric Operated	56,660.00			
	i)	Louvers	2,260.00			
4)	Structural					
	a)	Sidewalk	2,500.00	0.02%	0.02%	SBE
	b)	Structural Beams & Spread Footings	120,160.00			
	c)	Equipment Pads	18,440.00	0.15%	0.13%	SBE
	d)	Short Perimeter CIP Walls	76,130.00			
	e)	Trough Walls	56,530.00			
	f)	Sump Walls	1,160.00			
	g)	CIP Exterior Walls	67,890.00			
	h)	Roof Deck	39,670.00			
	i)	Metal Grating	10,050.00			
	j)	Aluminum Stairs	115,340.00			
5)	Process Mechanical					
	a)	FRP - Chemical Tanks (2,500 Gal. Tanks)	40,280.00			
	b)	Mechanical Processing Equipment	33,230.00			
	c)	Tank - Feed Pump	12,450.00			
	d)	Chemical Metering Pump Skid	133,650.00			
	e)	Monorail Sys. w/ Trolley & Hoist (2 Ton)	27,250.00			
6)	HVAC					
		Ductless Split Sys. (21.5 MBH, 645 cfm) - 2	14,440.00	0.12%	0.11%	SBE
7)	Electrical					
	a)	480V Transformer, Local Control Panel, VFD & MCCs	149,580.00			
	b)	Gen. Electric & Lighting	4,760.00	0.04%	0.03%	SBE
8)	Plumbing					

01d

		Potable Water	16,500.00	0.13%	0.12%	SBE
9)	Fire Protection					
		Fire Protection System	59,530.00			
D)	SITE 3					
1)	Sitework					
	a)	Constr. - 16" Dia. Auger Cast Piles System	45,280.00			
	b)	Spread Footing & Appurtenances	37,580.00			
	c)	Potable Water	5,650.00	0.05%	0.04%	SBE
2)	Instrumentation & Controls					
		Instrumentation, Calibration & Programming	65,350.00			
3)	Architectural					
	a)	Precast Roof Beams	75,620.00			
	b)	Silicone Sprayed Waterproofing	3,620.00	0.03%	0.03%	SBE
	c)	Paint - Concrete Surfaces	7,480.00	0.06%	0.05%	SBE
	d)	Interior Partition Wall (CMU)	13,620.00	0.11%	0.10%	SBE
	e)	Metal Grating	4,110.00			
	f)	Membrane Roofing	18,890.00	0.15%	0.14%	SBE
	g)	Doors (Frames, Doors & Panic Hardware)	10,310.00	0.08%	0.08%	SBE
	h)	OH Doors Electric Operated	56,660.00			
	i)	Louvers	2,260.00			
4)	Structural					
	a)	Spread Footing & Appurt.	147,710.00			
	b)	Equipment Pads	25,900.00	0.21%	0.19%	SBE
	c)	Short Containment CIP Walls	89,240.00			
	d)	Trough Walls	41,290.00			
	e)	Roof Deck	59,550.00			
	f)	CIP Exterior Walls	91,950.00			
	g)	Metal Grating	17,300.00			
	h)	Aluminum Stairs	13,900.00			
5)	PROCESS MECHANICAL					
	a)	FRP - Chemical Tanks (2,500 Gal. Tanks)	40,280.00			
	b)	Truck Fill	5,090.00			
	c)	Mechanical Process Equipment	44,990.00			
	d)	Tank - Feed Pump	22,640.00			
	e)	Chemical Metering Pump Skid	133,649.00			
	f)	Monorail Sys. w/ Trolley & Hoist (2 Ton)	27,250.00			
6)	HVAC					
		Ductless Split Sys. (36.0 MBH, 770 cfm) - 2	16,540.00	0.13%	0.12%	SBE

Old

	7)	Electrical				
		a)	Local Control Panel, Variable Frequency Drives & MCCs	123,600.00		
		b)	Gen. Electric & Lighting	14,300.00	0.12%	0.10% SBE
	8)	Plumbing				
		a)	Potable Water	16,610.00	0.14%	0.12% SBE
		b)	Floor Drain	6,830.00	0.06%	0.05% SBE
	9)	Fire Protection				
			Fire Protection System	59,540.00		
E)	FIELD TRAILER					
	1)	Quad Trailer (60'x 48')				
			Includes trailer design, delivery, permitting, HVAC, installation, interior furnishings & set-up and connection	330,000.00		
	2)	Site Preparation				
			Includes Backfill, compaction, gravel & preparation of parking area	40,000.00		0.29% SBE
	3)	ADA Ramp Construction		8,000.00		0.06% SBE
	4)	Janitorial Services (for approx. 20 mos.)		30,000.00		
F)	MOBILIZATION			919,250.00		
			SUBTOTAL	12,491,810.00	5.16%	4.96%
			CONTINGENCY (10%)	1,249,181.00	Initial Goal	Revised Goal
			SBE - TOTAL	13,740,991.00		
			DEDICATED ALLOWANCE	374,759.30		
			PROJECT GRAND TOTAL	14,115,745.30		

Old

**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: CDWWTP Chlorination Facilities
Consent Decree Project 2.17

**RESUBMITTAL
12/9/15**

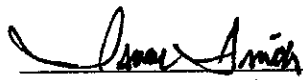
Contract No.: S-890

Estimate Amount: \$ 14,115,745.30 (See Breakdown below)

[\$12,491,810.00 Construction + \$ 1,249,181.00 Contingency + \$ 374,754.30 Dedicated Allowance]

Funding Source: EW 658, WASD Revenue Bonds Sold

Small Business Enterprise – Goods & Services – 1.75%
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 2-8.1.12 of the Code, entitled Miami-Dade Water and Sewer Department Consent Decree and Capital Improvement Programs Accelerate Ordinance.

The scope of work consist of furnishing all materials, labor and equipment necessary for the construction of the Consent Decree Project 2.17, Chlorination Facilities 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 facilities will be a new construction and will replace the existing chlorine gas facilities used for disinfection throughout the plant. The purpose of the facilities will be to provide storage of concentrated liquid sodium hypochlorite and to provide the metering pumps to serve the necessary discharge points throughout the plant.

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 in the area of Piling Systems, Structural, Electrical, Instrumentation, Roofing, Coating & Waterproofing, Sidewalk Construction and Paving. Our recommendation is in the area of Goods: for Doors and Fencing; and Services: for Cleaning/Janitorial, Concrete Sidewalk, Paving, Roofing, Painting, Waterproofing and HVAC for the project.

Old

Analysis for Small Business Enterprise – Goods and Services Recommendation				
Item	Goods & Services	Prime Contractor	Sub-Contractor	SBE Availability
1.	GOODS: Precast Structural Members Mechanical Process Equipment Electrical Switchgear Instrumentation & Controls Doors Chain Link Fence	X X X	X X X	X X
2.	SERVICES Auger Cast Piling Structural Electrical Instrumentation Roofing Concrete Sidewalk Paving Painting Waterproofing HVAC & Plumbing Fire Protection Janitorial	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 X X X X X X X X X

OK

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-890

*Reference corresponding project number when submitting a work order

Contract/Project Title: CDWWTP Chlorination Facilities Consent Decree Project 2.17

Description/Scope of Work: See Attached

Estimated Cost: 14115745 **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, FL

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 CSBE subcontractors.

Date submitted to DBD:12/9/2015

Contact Person:Isaac Smith

Telephone No.:786-552-8255

White Jr., Tyrone (ISD)

From: Smith, Isaac (WASD)
Sent: Thursday, December 10, 2015 11:04 AM
To: Etienne, Eddy (ISD)
Cc: White Jr., Tyrone (ISD)
Subject: FW: Sample Contingent Item for WASD Contract W-890

Morning Eddy,

Unfortunately, the 90% documents provided to the WASD by our design consultant did not include a spec for the trailer.

Please find below the breakdown from our design consultant.

Thanks,

Isaac Smith, Manager, Construction Contracts
Miami-Dade Water and Sewer Department
3071 SW 38 Ave, Suite 560B, Miami, Florida 33146
Tel. (786) 552-8255 Fax (786) 268-5186
www.miamidade.gov/water

Connect With Us on [Twitter](#) | [Facebook](#)



From: Arturo Burbano [mailto:Arturo.A.Burbano@mwhglobal.com]
Sent: Tuesday, December 08, 2015 1:06 PM
To: Smith, Isaac (WASD); Antonio Inojal
Cc: House, Jane (Consultant); Champlin, Tory (Consultant)
Subject: RE: Sample Contingent Item for WASD Contract W-890

Isaac,

Please see the following detail for the trailer and the items that are included:

*Trailer Cost (Quad Trailer 60'x48'):	\$141,000 (from vendor quote – includes delivery and set up from vendor, HVAC is included)
*Design and Permitting:	\$25,000
*Site Preparation :	\$40,000 (includes backfill, compaction, gravel and preparation of parking area)
*Installation:	\$20,000 (additional to installation from trailer provider)
*ADA Ramp Installation:	\$8,000
*Utility Connection:	\$15,000
*Interior Furnishings:	\$109,000 (per description provided)
*Janitorial services:	\$30,000 (for 20 months)
*Utility payments:	\$20,000 (phone, internet, water, sewer, garbage over 20 months)

Total: \$408,000

Please let us know if we need to clarify further on any item.

Thank you,

Arturo A. Burbano, Ph.D., PMP, BCEE
Principal Engineer
MWH
(626) 226-7641
arturo.burbano@mwhglobal.com

From: Smith, Isaac (WASD) [mailto:ISMIT01@miamidade.gov]
Sent: Monday, December 07, 2015 6:30 PM
To: Antonio Inojal
Cc: Arturo Burbano; House, Jane (Consultant); Champlin, Tory (Consultant); Smith, Isaac (WASD)
Subject: RE: Sample Contingent Item for WASD Contract W-890

Good Afternoon Arturo

I performed a general cursory review of the Proposal Form and Measurement & Payment spec and hereby submit the following for your consideration, as follows:

Proposal Form

- Please renumber Proposal Form. The WASD Proposal Forms always include letter pages after Page 1 of 9 and the last sheet being Page 9 of 9, (i.e. with the lettered pages inserted after page 1). So if a project had 3 pages of bid items, the proposal would be arranged as follows: 1 of 9, 1A of 9, 1B of 9, 1C of 9, 2 of 9, 3 of 9, ..., 9 of 9
- Please designate that Item 1 for Mobilization will be divided into 4 payments.
- Designate Item 20 as Dedicated Allowance not "Permitting Allowance"
- Designate Item 21 as Allowance Account not "Contingency Allowance"

Measurement & Payment

- I noticed that most of your bid items are Aggregate Sum items. Therefore, as previously suggested, please add the following paragraph after each (i.e. Items 1-18):
"Since this item is bid as an aggregate sum, payment will be in accordance with the cost breakdown (Schedule of Values) as approved by the Engineer and measured as required by and satisfactory to the Engineer."
- Item No. 3 – Include "tipping fees" at landfill
- Item No. 10 – Include "loading tanks"

Finally, in the morning please provide a breakdown for the full cost associated with the addition of this trailer in the project, such as

- **Trailer Cost (including delivery)**
- **Set-up of trailer**
- **Site Prep (backfill & compaction)**
- **Utility connection**
- **Janitorial Service**
- **Paving / sidewalk**
- **HVAC**
- **Does this item also include furnishing in the trailer?**

Old

**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: CDWWTP Chlorination Facilities
Consent Decree Project 2.17

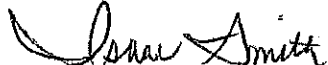
Contract No.: S-890

Estimate Amount: \$ 12,615,952.80 (See Breakdown below)

[\$11,164,560 Construction + \$ 1,116,456.00 Contingency + \$ 334,936.80 Dedicated Allowance]

Funding Source: EW 658, WASD Revenue Bonds Sold

Small Business Enterprise – Construction – 5.16%
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 2-8.1.12 of the Code, entitled Miami-Dade Water and Sewer Department Consent Decree and Capital Improvement Programs Accelerate Ordinance.

The scope of work consist of furnishing all materials, labor and equipment necessary for the construction of the Consent Decree Project 2.17, Chlorination Facilities 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 facilities will be a new construction and will replace the existing chlorine gas facilities used for disinfection throughout the plant. The purpose of the facilities will be to provide storage of concentrated liquid sodium hypochlorite and to provide the metering pumps to serve the necessary discharge points throughout the plant.

This project includes the construction of three (3) new buildings, on auger cast pile foundation: two buildings at site 1 and one (1) at Site 2. The Site 1 bulk storage building will not have any roof or walls above elevation 20.3. The Site 1 mechanical electrical building will be completely roofed and will be a split elevation building. Site 2 satellite facilities is smaller and will be open-sided on the tank storage area, and will be roofed and on the mechanical/electrical room. The entire extent of the satellite building will be roofed and will have a monorail system for tank to allow tank removal. The project includes sixteen (16) 20,000 FRP tanks, four (4) 2,500 gallon HDPE tanks, motor operated diaphragm metering pumps, spill containment troughs, spill containment pumps, magnetic drive pumps, installation of variable frequency drives, motor control centers, transformers, low voltage control panels, electrical switchboards, breakers, starters, lighting, grounding and lightning protection.

Old

QUALIFICATIONS OF BIDDERS:

Bidders shall demonstrate relevant minimum experience by submitting proof with their bid contract experience as required below:

- a. Bidder shall be experienced in chemical storage and metering facilities, specifically for sodium hypochlorite applications.
- b. Bidders must have successfully completed the construction and/or rehabilitation of a minimum of three (3) chemical storage and metering facilities within the last ten (10) years.
- c. The Bidder or Bidder's Electrical Subcontractor shall have successfully completed a minimum of three (3) projects demonstrating experience with installation of electrical equipment rated for 480V power supply.

LICENSES: The types of licenses required are: State General Contractor, General Engineering 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, as Project is not in a DTA

Old

Contract No.: S-871

Contract S-890 - ANALYSIS FOR SBE - CONSTRUCTION					
RECOMMENDATION 4% SBE - CONSTRUCTION					
Item	Description	Estimated Cost	% of Item to Base Bid	SBE-Contr.	
A)	GENERAL SITEWORK				
1)	Fencing				
	Fence Removal, Chain Link Fence, Silt Fence	7,800.00	0.06%	SBE	
2)	Asphaltic Concrete Paving	43,740.00	0.36%	SBE	
3)	Concrete Sidewalk	17,460.00	0.14%	SBE	
4)	Yard Chemical Piping				
	Chemical Vaults, HDPE Piping & Fittings	908,320.00			
5)	Yard Chemical Instrumentation				
	Instrumentation, Calibration & Programming	174,250.00			
B)	SITE 1 BUILDINGS				
1)	Piling System - Large Chemical Facility				
	Constr. 192 - 16" Dia. Auger Cast Piles & appurt.	488,860.00			
2)	Piling System - Small Chemical Facility				
	Constr. 48 - 16" Dia. Auger Cast Piles & appurt.	146,890.00			
3)	Sanitary Sewer	10,040.00	0.08%	SBE	
4)	Potable Water	28,610.00	0.23%	SBE	
5)	Chlorination Bldg Instrumentation & Controls	635,990.00			
6)	Architectural - Large Bldg				
	a) Trough Grating	5,030.00			
	b) Silicone Sprayed Waterproofing	7,970.00	0.06%	SBE	
	c) Painting	43,170.00	0.35%	SBE	
7)	Architectural - Small Bldg				
	a) Precast Roof Beams	111,790.00			
	b) Silicone Sprayed Waterproofing	5,710.00	0.05%	SBE	
	c) Painting	12,280.00	0.10%	SBE	
	d) Interior Partition Wall (CMU Block)	16,150.00	0.13%	SBE	
	e) Trough Grating	3,360.00			
	f) Membrane Roofing System	29,160.00	0.24%	SBE	
	g) Louvers	2,260.00			
	h) Doors (Frames, Doors & Panic Hardware)	10,650.00	0.09%	SBE	

Old

8)	Structural - Large Bldg.				
	a)	Continuous Footing, Spread Footing & Appurt.	452,380.00		
	b)	Loading Dock	25,320.00		
	c)	Trough Walls	7,520.00		
	d)	Perimeter Walls w/ Pileasters	259,580.00		
	e)	Aluminum Floor Grating - 1.5" & 2"	28,750.00		
	f)	Metal Platform	178,980.00		
	g)	Exterior Aluminum Stairs	21,830.00		
9)	Structural - Small Bldg.				
	a)	Spread Footing & Appurtenances	156,450.00		
	b)	Equipment Pads	26,890.00	0.22%	SBE
	c)	Structural Beams	196,950.00		
	d)	Trough Walls	33,860.00		
	e)	CIP Exterior Concrete Walls	175,270.00		
	f)	Roof Deck (Suspended Slab)	94,240.00		
	g)	Aluminum Stairs	24,690.00		
	h)	Aluminum Floor Grating - 1.5"	12,750.00		
10)	Process Mechanical				
	a)	FRP Chemical Tanks (20,000 gal tanks)	1,547,290.00		
	b)	CPVC Pipe & Fittings w/ Viton O-Rings	110,470.00		
	c)	Mechanical Processing Equipment	285,285.00		
	d)	Spill Sump Pump	24,620.00		
	e)	3 Ton - Bride Crane w/ Trolley & Hoist - 30' Span	64,900.00		
	f)	7.5 Ton - Bride Crane w/ (2) Trolley & Hoist-62' Span	122,750.00		
	g)	Chemical Metering Pump Skid	334,120.00		
11)	HVAC				
	a)	2 - Air Conditioning Units, Water Cooled, 72.1 MBH, 2300 CFM (louvers, dampers & NACIO Room Fans)	135,470.00		
	b)	Cooling Tower	24,480.00		
	c)	FRP Ductowrk	544,590.00		
12)	Electrical				
	a)	General Electric & Lighting	48,660.00	0.40%	SBE
	b)	600V Breakers, MCC, Panelboard, Heavy Duty Safety Switch, Variable Frequency Drives	610,660.00		
13)	Plumbing				
	a)	Potable Water & Emergency Shower	52,890.00	0.43%	SBE
	b)	Floor Drain	18,070.00	0.15%	SBE
14)	Fire Protection System		86,916.00		
C)	SITE 2				
	1)	Sitework			
	a)	16" Dia. Auger Cast Piles & appurt.	55,490.00		
	b)	Spread Footing & Appurtenances	15,750.00		
	c)	Potable Water	6,010.00	0.05%	SBE

Old

	2)	Instrumentation & Controls			
		Instrumentation, Calibration & Programming		174,250.00	
	3)	Architectural			
		a)	Precast Roof Beams	40,060.00	
		b)	Silicone Sprayed Waterproofing	4,080.00	0.03% SBE
		c)	Paint - Concrete Surfaces	7,480.00	0.06% SBE
		d)	Interior Partition Wall (CMU)	13,620.00	0.11% SBE
		e)	Metal Grating	2,140.00	
		f)	Membrane Roofing	16,210.00	0.13% SBE
		g)	Doors (Frames, Doors & Panic Hardware)	10,300.00	0.08% SBE
		h)	OH Doors Electric Operated	56,660.00	
		i)	Louvers	2,260.00	
	4)	Structural			
		a)	Sidewalk	2,500.00	0.02% SBE
		b)	Structural Beams & Spread Footings	120,160.00	
		c)	Equipment Pads	18,440.00	0.15% SBE
		d)	Short Perimeter CIP Walls	76,130.00	
		e)	Trough Walls	56,530.00	
		f)	Sump Walls	1,160.00	
		g)	CIP Exterior Walls	67,890.00	
		h)	Roof Deck	39,670.00	
		i)	Metal Grating	10,050.00	
		j)	Aluminum Stairs	115,340.00	
	5)	Process Mechanical			
		a)	FRP - Chemical Tanks (2,500 Gal. Tanks)	40,280.00	
		b)	Mechanical Processing Equipment	33,230.00	
		c)	Tank - Feed Pump	12,450.00	
		d)	Chemical Metering Pump Skid	133,650.00	
		e)	Monorail Sys. w/ Trolley & Hoist (2 Ton)	27,250.00	
	6)	HVAC			
			Ductless Split Sys. (21.5 MBH, 645 cfm) - 2	14,440.00	0.12% SBE
	7)	Electrical			
		a)	480V Transformer, Local Control Panel, VFD & MCCs	149,580.00	
		b)	Gen. Electric & Lighting	4,760.00	0.04% SBE
	8)	Plumbing			
			Potable Water	16,500.00	0.13% SBE
	9)	Fire Protection			
			Fire Protection System	59,530.00	

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D)	SITE 3				
	1)	Sitework			
		a) Constr. - 16" Dia. Auger Cast Piles System	45,280.00		
		b) Spread Footing & Appurtenances	37,580.00		
		c) Potable Water	5,650.00	0.05%	SBE
	2)	Instrumentation & Controls			
		Instrumentation, Calibration & Programming	65,350.00		
	3)	Architectural			
		a) Precast Roof Beams	75,620.00		
		b) Silicone Sprayed Waterproofing	3,620.00	0.03%	SBE
		c) Paint - Concrete Surfaces	7,480.00	0.06%	SBE
		d) Interior Partition Wall (CMU)	13,620.00	0.11%	SBE
		e) Metal Grating	4,110.00		
		f) Membrane Roofing	18,890.00	0.15%	SBE
		g) Doors (Frames, Doors & Panic Hardware)	10,310.00	0.08%	SBE
		h) OH Doors Electric Operated	56,660.00		
		i) Louvers	2,260.00		
	4)	Structural			
		a) Spread Footing & Appurt.	147,710.00		
		b) Equipment Pads	25,900.00	0.21%	SBE
		c) Short Containment CIP Walls	89,240.00		
		d) Trough Walls	41,290.00		
		e) Roof Deck	59,550.00		
		f) CIP Exterior Walls	91,950.00		
		g) Metal Grating	17,300.00		
		h) Aluminum Stairs	13,900.00		
	5)	PROCESS MECHANICAL			
		a) FRP - Chemical Tanks (2,500 Gal. Tanks)	40,280.00		
		b) Truck Fill	5,090.00		
		c) Mechanical Process Equipment	44,990.00		
		d) Tank - Feed Pump	22,640.00		
		e) Chemical Metering Pump Skid	133,649.00		
		f) Monorail Sys. w/ Trolley & Hoist (2 Ton)	27,250.00		
	6)	HVAC			
		Ductless Split Sys. (36.0 MBH, 770 cfm) - 2	16,540.00	0.13%	SBE
	7)	Electrical			
		a) Local Control Panel, Variable Frequency Drives & MCCs	123,600.00		
		b) Gen. Electric & Lighting	14,300.00	0.12%	SBE

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	8)	Plumbing				
		a)	Potable Water	16,610.00	0.14%	SBE
		b)	Floor Drain	6,830.00	0.06%	SBE
	9)	Fire Protection				
			Fire Protection System	59,540.00		
			SUBTOTAL	11,164,560.00	5.16%	
			CONTINGENCY (10%)	1,116,456.00	Goal	
			SBE - TOTAL	12,281,016.00		
			DEDICATED ALLOWANCE	334,936.80		
			PROJECT GRAND TOTAL	12,615,952.80		

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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-890

*Reference corresponding project number when submitting a work order

Contract/Project Title: CDWWTP Chlorination Facilities Consent Decree Project 2.17

Description/Scope of Work: See Attached

Estimated Cost: 12615952 **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, FL

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 CSBE subcontractors.

Date submitted to DBD:12/1/2015

Contact Person:Isaac Smith

Telephone No.:786-552-8255

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**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: CDWWTP Chlorination Facilities
Consent Decree Project 2.17

Contract No.: S-890

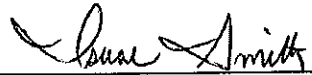
Estimate Amount: \$ 12,615,952.80 (See Breakdown below)

[\$11,164,560 Construction + \$ 1,116,456.00 Contingency + \$ 334,936.80 Dedicated Allowance]

Funding Source: EW 658, WASD Revenue Bonds Sold

Small Business Enterprise – Goods & Services – 1.5%

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 2-8.1.12 of the Code, entitled Miami-Dade Water and Sewer Department Consent Decree and Capital Improvement Programs Accelerate Ordinance.

The scope of work consist of furnishing all materials, labor and equipment necessary for the construction of the Consent Decree Project 2.17, Chlorination Facilities 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 facilities will be a new construction and will replace the existing chlorine gas facilities used for disinfection throughout the plant. The purpose of the facilities will be to provide storage of concentrated liquid sodium hypochlorite and to provide the metering pumps to serve the necessary discharge points throughout the plant.

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 in the area of Piling Systems, Structural, Electrical, Instrumentation, Roofing, Coating & Waterproofing, Sidewalk Construction and Paving. Our recommendation is in the area of Goods: for Doors and Fencing; and Services: for Concrete Sidewalk, Paving, Roofing, Painting, Waterproofing and HVAC for the project.

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Analysis for Small Business Enterprise – Goods and Services Recommendation				
Item	Goods & Services	Prime Contractor	Sub-Contractor	SBE Availability
1.	GOODS: Precast Structural Members Mechanical Process Equipment Electrical Switchgear Instrumentation & Controls Doors Chain Link Fence	X X X	X X X	X X
2.	SERVICES Auger Cast Piling Structural Electrical Instrumentation Roofing Concrete Sidewalk Paving Painting Waterproofing HVAC & Plumbing Fire Protection	X X	X X X X X X X	X X X X