

SBD - CM Review Form

To: Project Review & Analysis - Construction
From: SBD CM - Eddy V. Etienne Jr.
Department: Miami Dade County Water & Sewer Department
Date: 1/30/2017
Contact: Isaac Smith
Resubmittal: No

PROJECT NUMBER: S-882
PROJECT TITLE: CD 1.02 OXYGEN PRODUCTION UPGRADES
PROJECT LOCATION: South District Waste Water Treatment Plant at 8590 SW 232 Street

SCOPE OF WORK/DESCRIPTION: This project is one in a series of projects that are being processed under County Code Section 2-8.2.12, entitled Miami-Dade Water and Sewer Department Consent Decree and Capital Improvement Programs Acceleration Ordinance. In general, the project consists of furnishing all materials, labor, and equipment necessary for the Oxygen Production Upgrades at the South District Wastewater Treatment Plant (SDWWTP), located at 8590 S.W. 232nd Street, Section 21, Township 56, Range 40, Miami-Dade, Florida 33190.

The scope of work includes, but is not limited to, upgrading the existing oxygen production facilities which shall include construction of a new electrical building, installation of an owner furnished centrifugal compressor, and overhaul of the existing centrifugal compressor. The purpose of the upgrade will be to increase the oxygen production capacity at the plant and to provide for redundancy of equipment.

SPECIAL REQUIREMENTS: 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.
SPECIAL PROJECT CONSIDERATIONS:

Bidders shall demonstrate relevant minimum experience by submitting proof with their bid contract experience as required below:
a. The project involves specialized work with large expensive specialized equipment. Portions of the work will be performed in an enriched oxygen environment, requiring special safety and health procedures are implemented and used prior construction, during construction and startup.

b. Bidders are advised that the project will be constructed while maintaining operations of an existing wastewater treatment plant.

c. Due to the specialized nature of the work, a detailed breakdown is provided to facilitate your review.

The scope of work consist of furnishing all material, except as furnished by the Department, labor and equipment necessary for the following items:

1. Upgrade/overhaul of Compressor No. 3 from 100-tons to 125-tons, furnished by the Department.
2. Installation of new 125 Ton Compressor No. 4, furnished by the Department.
3. Installation of Local Control Panel for Compressor Nos. 3 & 4, furnished by the Department.
4. Installation of all new compressor ancillary components including but not limited to the inlet filter for each compressor.
5. Piping modifications and additions to connect Compressor No. 4 to the existing Cryogenic Oxygen Plants.
6. Construction of a new Electrical Building to power Compressor Nos. 3 and 4, complete, including:
 - a. Two (2) 5000 kVA Transformers
 - b. Two (2) 5 kV and Two (2) 15 kV Switchgears
 - c. 25 Ton HVAC system.
7. Installation of a new Motor Control Center.
8. Electrical wiring modifications to feed power to the new and upgraded compressors to include installation of the following:

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- a. Two (4) New 15 kV feeders from existing Switchgear Building 1 to the new Electrical Building with two (2) feeder jumpers at the new 15 kV switchgear.
- b. New electrical duct bank to accommodate the new 15 kV feeders.
- c. New 15 kV feeder from existing Switchgear Building No.1 to existing Substation No.17.
- 9. Decommissioning in place of the following components and equipment:
 - a. Compressor Nos. 1 & 2
 - c. Starters for Compressor No. 1 and No. 2
 - d. Substation Nos. 3, 4 and 20
- 10. Demolition of the following components:
 - a. Air and Cooling Water Piping for Compressor Nos. 1 & 2.
 - b. Compressor No. 3 inlet air piping, valves and filter components.
 - c. Compressor No. 3 discharge silencer and blow-off valve.
 - d. 15 kV feeders to Compressor No. 1 and Compressor No. 2.
 - e. 15 kV feeder jumper between Substation 1 and Substation 17.
- 11. Site Civil and Stormwater work.
- 12. Relocation of existing utilities.

TRADES/SUBTRADES	AMOUNT	PERCENTAGE	COMMENTS
Prime			
Mobilization/Demo and Preparatory Work	\$3,723,791.99		Must meet Project Special Requirements
Compressor Piping & Electrical Feeder Demolition	\$14,722.00		
Decommissioning of Compressor & Substations	\$8,709.00		
Process Mechanical	\$75,445.00		
Installation of Compressor No. 4	\$42,496.00		
Installation of Compressor No. 3	\$92,682.00		
Process Electrical	\$296,273.00		
Installation of Local Control Panel & Instrumentation	\$1,203,937.98		
BASE TOTAL			
Architectural and Structural	\$760,973.25		*Possible subcontracting opportunities
Building Mechanical	\$130,125.60		
Electrical	\$185,306.18		
General Site Civil	\$385,612.00		
BASE TOTAL		\$6,920,074.00	90.91%
Contingency Allowance (10% of Base Estimate)	\$692,007.40	9.09%	
TOTAL AMOUNT		\$7,612,081.40	100.00%

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***Trades/Sub-Trades identified for possible subcontracting opportunities by SBD CM**
WASD is recommending 19.21% SBE/Cons and 4.80% SBE/GS

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