

SBD - CM Review Form

To:	Project Review & Analysis - Construction		
From:	SBD Engineer - Eric Perez		
Department:	Miami-Dade Water and Sewer Department	Contact:	Paul Adams
Date:	6/2/2022	Resubmittal:	

PROJECT NUMBER:	S-961
PROJECT TITLE:	New Regional Fats, Oils, and Grease (FOG) Facility at the South District Wastewater Treatment Plant
PROJECT LOCATION:	23300 SW 88th Avenue, Miami, FL 33190

SCOPE OF WORK/DESCRIPTION: The work includes, but is not limited to: expanding and raising the finish elevation of the site for the facility; modifying the access roads as shown for the new facility; construction of four truck unloading FOG bays with screening equipment; construction of a pre-cast concrete FOG building including a heat exchanger room with 5 gas heat exchangers, HVAC, and appurtenances, an electrical room including MCCs, switchgear and related appurtenances, and an operator room with office containing SCADA and equipment for operating the facility; hot water system for cleaning screens and flushing of FOG force mains; seven 25,000-gallon insulated stainless steel FOG storage tanks with individual mixing systems; two 2,000-foot 3-inch insulated glass lined DIP force mains with appurtenances; demolition of electrical gear in electrical substation 31A/32A; replacement of transformers and electrical gear in electrical substation 31A/32A and all related appurtenances including HVAC; electrical and site electrical; instrumentation and control; extension of the plant portable water system; and connection to the WWTP in-plant sewer system and stormwater system.

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.

QUALIFICATIONS OF BIDDERS: Demonstrate qualifications for experience by submitting three (3) projects completed by Bidder, each project shall meet the experience requirements as follows (can include the experience of key supervisory employees that would man the project) :

- i. Experience with construction of water and wastewater treatment facilities in the past 10 years involving treatment process construction including modifications or new construction.
- ii. Experience with electrical power distribution improvements:
 - Electrical sub-contractor must have completed a minimum of three (3) projects demonstrating experience in procuring, installing, and commissioning arc flash resistant medium voltage switchgear and unit substation transformers within the past ten (10) years.
 - Electrical sub-contractor must have completed a minimum of three (3) projects demonstrating experience in procuring, installing, and commissioning arc-flash resistant low voltage switchgear, arc flash resistant low voltage motor control centers, low voltage motors and variable frequency drives within the past ten (10) years.

- Bidder / general contractor may fulfill these requirements with one or two electrical sub- contractors.
- iii. Experience with integration of controls into an existing System Control and Data Acquisition System (SCADA).
- iv. Contract value for each project submitted to be in excess of US\$15 million.
- v. Preferred experience:
 - Bidder to demonstrate experience with construction of FOG Facilities / FOG handling equipment installation in the USA.

TRADES/SUBTRADES	AMOUNT		COMMENTS
General Contractor			
General Conditions & General Requirements	\$2,509,481.00		
Site Civil (including paving)	\$3,540,777.00		*Possible opportunities for Small Businesses
FOG Facility (4 truck loading bays, concrete pads, dumpter, cleaning equip, etc.)	\$4,800,399.00		*Possible opportunities for Small Businesses
FOG Facility (Furnish and install all materials, equipment, and additional labor that is not included in mechanica, electrical scope)	\$498,601.00		
FOG Facility (Furnish and install two (2) 2000 linear feet 3-inch diameter insulated glass lined ductile iron pipe (DIP) force mains with all related appurtenances.)	\$511,055.00		*Possible opportunities for Small Businesses
Electrical Substation 31A/32A (Furnish and install a new precast concrete chemical treatment building)			
Electrical Substation 31A/32A (Furnish and install a new precast concrete chemical treatment building)	\$55,207.00		
FOG Facility (install foundation and precast concrete)	\$3,823,661.00		
General Mechanical			
FOG Facility (Furnish and install heat exchangers, boilers, hot water system, piping, heat exchanger pumps, valves, etc.)	\$1,472,869.00		
FOG Facility (Furnish and install all process mechanical elements)	\$705,885.00		
FOG Facility (Install OWNER FURNISHED RTU and control panels)	\$2,091.00		
Electrical Substation 31A/32A (Furnish and install all building mechanical for electrical substation 31A/32A)	\$391,924.00		
FOG Facility (Furnish and install seven 25,000-gallon insulated stainless steel FOG storage tanks with individual pump mixing systems, inclusive of all related piping, valves, etc)	\$3,054,483.00		
General Electrical			
FOG Facility (furnish and install building electrical equipment)	\$2,069,652.00		
Electrical Substation 31A/32A (Demolition of electrical gear)	\$21,505.00		

TRADES/SUBTRADES	AMOUNT		COMMENTS
Electrical Substation 31A/32A (Furnish and install building electrical components)	\$1,996,143.00		
FOG Facility (Furnish and install all site electrical elements and related appurtenances outside of the FOG facility)	\$1,027,351.00		
FOG Facility (Furnish and install all instrumentation and control items, inclusive of SCADA programming, and appurtenances)	\$245,861.00		
Furnish all testing, commissioning support, and training activities as noted in the specifications	\$364,247.00		
Electrical Substation 31A/32A (Dedicated electrical testing)	\$6,525.00		
Electrical Substation Upgrade (Furnish and install 15 kV feeder in existing duct bank)	\$827,870.00		
BASE TOTAL	\$27,925,587.00	90.91%	
Contingency Allowance (10% of Base Estimate)	\$2,792,558.70	9.09%	
TOTAL AMOUNT	\$30,718,145.70	100.00%	

Small Business Development Signature: Eric Perez Date: 6/6/2022

***Trades/Sub-Trades identified for possible subcontracting opportunities by SBD CM**

FIMD is recommending 5.05%