

## SBD - CM Review Form

<b>To:</b>	Project Review & Analysis - Construction		
<b>From:</b>	SBD Engineer - Eric Perez		
<b>Department:</b>	Miami Dade Water & Sewer Department	<b>Contact:</b>	Paul Adams
<b>Date:</b>	1/9/2023	<b>Resubmittal:</b>	

<b>PROJECT NUMBER:</b>	S-949A
<b>PROJECT TITLE:</b>	Ocean Outfall Legislation Program, Construction Package CT-3C-A, Electrical Distribution Building 2 (EDB-2)
<b>PROJECT LOCATION:</b>	3989 Rickenbacker Causeway Miami, Florida, 33149.

<b>SCOPE OF WORK/DESCRIPTION:</b>	The work under this contract includes the construction of a new Electrical Distribution Building (EDB-2) located at the Northern portion of the CDWWTP. EDB-2 will provide power to most of the electrical substations in the northern part the CDWWTP by providing a new network of electrical duct banks. This project will offload the existing EDB-1 by transferring some the existing loads to the new EDB-2. The new facility will consist of a new electrical distribution building housing eight (8) tier-4 diesel engine-generators, all auxiliary equipment, a workshop, a safe room, a breakroom, and bathrooms/locker rooms. It will also include a fuel oil and bulk storage facility and an FPL Metering Vault. The project includes significant earthwork and installation of a retaining wall to raise the finish floor elevation above the projected flood elevations.
<b>LICENSES:</b>	1. At the time of Bid and pursuant to the requirements of Section 10-3 of the Code of Miami-Dade County, Florida and these Solicitation and Contract Documents, the Bidder must hold a valid, current, and active: State General Contractor, General Engineering Contractor and/or other categories as applicable by Chapter 489 of the Florida Statutes or County Code Chapter 10.

**SPECIAL REQUIREMENTS:**In addition to the license requirements, the Bidder must submit proof, along with their bid, that their firm has successfully completed comparable projects meeting the following criteria:

- The Bidder shall have successfully completed a minimum of one (1) project demonstrating experience with electrical distribution building construction projects having a total construction value of greater than \$75 million and three (3) projects demonstrating experience with large wastewater treatment upgrade projects having a total construction (for each project) of greater than \$25 million. These projects shall have been performed within the past ten (10) years from the date of the Invitation to Bid.
- The Bidder's proposed project manager shall have successfully completed a minimum of two (2) projects demonstrating project management experience with large wastewater treatment upgrade projects having a total construction value (for each project) of greater than \$50 million. These projects shall have been performed within the past ten (10) years from the date of the Invitation to Bid.
- The Bidder must have successfully completed the construction and/or rehabilitation of a minimum of two (2) electrical distribution rooms with at least 6 diesel engine type generators The Bidder shall be experienced in performing the work while maintaining operations of a wastewater treatment facility. These projects shall have been performed within the past ten (10) years from the date of the Invitation to Bid.
- The Bidder must have successfully completed the construction and/or rehabilitation of a minimum of two (2) fuel storage facilities with at least 3 storage tanks and accessories and construction of fuel pipe systems. The Bidder shall be experienced in performing the work while maintaining operations of a wastewater treatment facility. These projects shall have been performed within the past ten (10) years from the date of the Invitation to Bid.
- The Bidder or Bidder's Electrical Subcontractor shall have successfully completed a minimum of three (3) projects demonstrating experience procuring and installing main electrical equipment, medium or low voltage power supply systems, including transformers and switchgear. The Bidder shall be experienced in performing the work while maintaining operations of a wastewater treatment facility. These projects shall have been performed within the past ten (10) years from the date of the Invitation to Bid. The Bidder or Bidder's Electrical Subcontractor Lead Electrician shall have successfully completed a minimum of one (1) project demonstrating experience with medium and high voltage power supply systems, including transformers and switchgear. These projects shall have been performed within the past ten (10) years from the date of the Invitation to Bid. The Bidder shall be experienced in performing the work while maintaining operations of a wastewater treatment facility. These projects shall have been performed within the past ten (10) years from the date of the Invitation to Bid.
- The Bidder or Bidder's Instrumentation and Controls Subcontractor shall have successfully completed a minimum of one (1) project demonstrating experience with instrumentation and controls including connections into an existing SCADA. The experience may be demonstrated by the general contractor or a specialty subconsultant for their discipline of work. The Bidder shall be experienced in performing the work while maintaining operations of a wastewater treatment facility. These projects shall have been performed within the past ten (10) years from the date of the Invitation to Bid.
- The Bidder or Bidder's HVAC Subcontractor shall have successfully completed a minimum of one (1) project demonstrating experience with HVAC equipment including cooling towers. The experience may be demonstrated by the general contractor or a specialty subconsultant for their discipline of work. The Bidder shall be experienced in performing the work while maintaining operations of a wastewater treatment facility. These projects shall have been performed within the past ten (10) years from the date of the Invitation to Bid.

TRADES/SUBTRADES	AMOUNT		COMMENTS
General Contractor/ General Engineering Contractor			
Mobilization & Demobilization: For performing preparatory work and operations in mobilizing and demobilization to and from the Project site	\$13,735,610.00		
Staging Area: For modification of existing sludge drying bed No. 6, inclusive of labor, equipment and materials, any other modification required for the area to be used for staging including but not limited to dewatering and filling, temporary drainage modification, temporary utility connections	\$4,921,072.00		*Possible opportunities for Small Businesses
EDB-2 Structural & Architectural: For providing all structural and architectural work, inclusive of labor, equipment, and materials required for construction of all structures and structural and architectural details	\$22,612,429.00		*Possible opportunities for Small Businesses
EDB-2 Fuel Oil and Emissions Fluid Bulk Storage and FPL Metering Vault Structural & Architectural: For providing all structural and architectural work	\$2,469,127.00		
EDB-2 Fuel Oil and Emissions Fluid Storage Tanks, Pumps and other Ancillary Equipment: For furnishing and installing four (4) fuel transfer tanks, one (1) DEF tank, one (1) Lube Oil Tank, one (1) Waste Oil Tank	\$2,717,344.00		
Civil			
Projectwide Civil: For providing all general site civil related to the construction of the new electrical building EDB-2, the Fuel Oil and Emissions Fluid Bulk Storage and the FPL Metering Vault	\$5,622,498.00		*Possible opportunities for Small Businesses
General Mechanical (Temporary By-pass pumping)			
EDB-2 Building Mechanical: For supply and installation of the HVAC system inclusive of labor, equipment, materials, and testing	\$4,415,747.00		*Possible opportunities for Small Businesses

TRADES/SUBTRADES	AMOUNT		COMMENTS
General Electrical			
Projectwide Ductbank: For providing all duct bank work, inclusive of labor, equipment, and materials required for construction of all duct banks	\$14,772,157.00		*Possible opportunities for Small Businesses
EDB-2 Instrumentation & Control: For furnishing and installing of all instrumentation work, inclusive of labor, equipment, and materials	\$6,288,323.00		
Projectwide Electrical: For providing all electrical work, inclusive of labor, equipment, materials and testing	\$42,778,966.00		*Possible opportunities for Small Businesses
EDB-2 Generators and Ancillary Equipment: For receiving, inspecting, handling, storing, installing and testing eight (8) generators	\$7,196,298.00		
<b>BASE TOTAL</b>	\$127,529,571.00	86.49%	
Contingency Allowance (10% of Base Estimate)	\$12,752,957.10	8.65%	
Dedicated Allowance			
Permit: This item establishes a fund for reimbursement of the cost of required construction permits, fees, inspections,	\$3,825,887.00		
Maintenance of Plant Operations: This item establishes a fund for reimbursement of any required maintenance for the plant process	\$300,000.00		
Lead Paint and Asbestos Abatement: This item establishes a fund for the demolition, handling, and removal of materials containing lead paint and asbestos	\$50,000.00		
Geotechnical/Foundation Issues: This item establishes a fund for completing work exclusively related to addressing geotechnical/foundation issues	\$150,000.00		
Utility Conflicts: This item establishes a fund for completing Work exclusively related to addressing underground utility conflicts	\$250,000.00		
Workshop Equipment: Fund for the purchase and installation of the tools, equipment	\$300,000.00		
Diesel Fuel and Lube Oil: This item establishes a fund for the purchase of diesel fuel and lube oil	\$1,000,000.00		
Sludge Drying Bed Drainage By-Pass Pipe: This item establishes a fund for completing Work exclusively related to the construction of a by-pass pipe	\$900,000.00		
Temporary Truck Scale: This item establishes a fund for providing a temporary truck scale	\$400,000.00		

TRADES/SUBTRADES	AMOUNT		COMMENTS
<b>TOTAL AMOUNT</b>	\$147,458,415.10	100.00%	

Small Business Development Signature: Eric Perez Date: 1/9/2023

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

**WASD** is recommending **7.35%**