

## SBD - CM Review Form

<b>To:</b>	Project Review & Analysis - Construction	<b>Contact:</b>	Issac Smith
<b>From:</b>	SBD Engineer - Eric Perez	<b>Resubmittal:</b>	
<b>Department:</b>	Miami Dade Water & Sewer Department		
<b>Date:</b>	3/9/2021		

<b>PROJECT NUMBER:</b>	RPQ No. P0226RR
<b>PROJECT TITLE:</b>	CD 1.11 – Emergency Generators 1 through 4 Rehab South District Wastewater Treatment Plant
<b>PROJECT LOCATION:</b>	23300 SW 88 Ave., Miami, FL 33190

**SCOPE OF WORK/DESCRIPTION:** The scope of work includes, but is not limited to, furnishing all materials, labor, and equipment necessary to rehabilitate four (4) existing generator enclosures and connect existing Generators 1, 2, 3 and 4 to remove radiator systems; modification work; demolition work; removal of radiators and modify enclosure frame, roof, floor, walls, floor beams; removal of stack metal covers; removal of mufflers from Generator 3 and 4; removal of existing day tank and replacement with proposed double walled fuel oil day tank; furnish and install new louvers and exhaust fans; mechanical work; electrical work, including electrical systems, motor control centers, cables, raceways, conduits, disconnect switches and grounding systems; all piping (including fuel, oil and water), valves and fittings; painting; roofing; site restoration; testing and cleanup.

The work also includes installation of Department furnished radiator assembly including installing expansion tank, isolation valves and concrete base slab; connecting eight (8) proposed radiator fans (2 per radiator unit); pulling wire from junction box to two starter disconnect switches for Fans #1 and #2; furnish and install electrical conduits, cables, raceways, disconnect switches and grounding systems; modification of existing electrical conduits and electrical systems; cooling water pipe connection between existing engine and proposed radiator units; furnish and installing piping, valves and fittings; providing the services of a systems integration, provide site restoration; cleaning, and testing; submittal of O&M Documents, Record Documents (As-Builts), warranties, and punch list items; spare parts and all appurtenant and miscellaneous items and work for a complete, satisfactory, and functional installation.

- SPECIAL REQUIREMENTS:** TBidders shall submit proof that his/her firm has at least the minimum successful contract experience as requested below:
- A. With his bid, the successful Bidder shall submit proof that his/her firm has at least the minimum successful contract experience as required below for this Contract being bid. Such proof shall consist of a list of projects, completed prior to the bid date, with the names and telephone numbers of the owners or representatives the Department can call and confirm the listed experience.**
  - B. In addition to submittal requirements stated elsewhere, to qualify for work on this Contract the Bidder or Bidder's Electrical Subcontractor shall be experienced with Generator installations, including medium voltage electrical power systems, and standby diesel generators. The Bidder Subcontractor shall also be experienced in construction of metal structures and steel framing welding. The welding Contractor shall be certified by the AWS with a minimum of five years of experience.**
  - C. The Bidder or Bidder's Electrical Subcontractor shall have successfully completed a minimum of three (3) projects demonstrating experience with low and medium voltage power supply and standby diesel generators within the last ten (10) years meeting the following requirements:**
    - 1. Low Voltage: Minimum generator size 150 kW**

**2. Medium Voltage: Minimum generator size 1,000 kW**

**D. The experience of key senior personnel with other firms may be counted toward the experience requirement, if acceptable to the ENGINEER. Should such evidence not be satisfactory to the ENGINEER, whose decision shall be final.**

**E. In the event a firm is established by executives, supervisors and other senior field staff (key employees) that would have met these minimum experience requirements with a prior firm, the Department reserves the right to qualify the firm based on WASD's sole determination and evaluation of the knowledge and prior experience of these key employees employed by the new firm.**

**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.

TRADES/SUBTRADES	AMOUNT	COMMENTS
General Building Contractor/General Engineering		
Mobilization / Demobilization	\$353,000.00	
Site Restoration	\$105,900.00	*Opportunities for Small Businesses due to requirements
Excavation, Backfill and Compaction - Radiator Base	\$35,000.00	*Opportunities for Small Businesses due to requirements
Construction of Radiator Base Pad	\$105,000.00	
New Radiator Installation	\$52,000.00	
New Roof Sections	\$121,520.00	*Opportunities for Small Businesses due to requirements
New Wall, Floor and Exhaust End Sections	\$297,000.00	*Opportunities for Small Businesses due to requirements
New Exhaust Fan Hood & Guard	\$44,000.00	
New Air Intake Hoods & Metal Pieces	\$529,000.00	
Intake, Stack & Muffler	\$194,032.00	
Roof Replacement	\$58,000.00	*Opportunities for Small Businesses due to requirements
Structural Work, Intake Hoods and Screens	\$186,080.00	
Door Replacement (including overhead doors)	\$280,000.00	
Paining - Generator enclosure	\$140,000.00	*Opportunities for Small Businesses due to requirements
Mechanical		
Demolition & Disposal	\$145,000.00	*Opportunities for Small Businesses due to requirements
Black steel piping & fittings	\$224,168.00	
Gate Valves	\$74,600.00	
Supply Fans	\$130,000.00	
Fuel Day Tank	\$52,000.00	

TRADES/SUBTRADES	AMOUNT		COMMENTS
Miscellaneous Items	\$37,000.00		
Electrical			
Demolition & Disposal	\$10,000.00		*Opportunities for Small Businesses due to requirements
Neutral Grounding Resistors	\$120,000.00		
Feeder, 400A	\$35,000.00		
Supply Wiring for 480V Motors	\$36,000.00		*Opportunities for Small Businesses due to requirements
Electrical Equipment	\$144,600.00		
Grounding of Radiator and Resistor	\$20,000.00		*Opportunities for Small Businesses due to requirements
Control & Signal Wiring	\$20,000.00		
Radiator & Fan Control Upgrades	\$168,000.00		
Fuel System Alarm & Control Upgrades	\$136,000.00		
Systems Integration	\$136,000.00		
<b>BASE TOTAL</b>	\$3,988,900.00	90.91%	
Contingency Allowance (10% of Base Estimate)	\$398,890.00	9.09%	
<b>TOTAL AMOUNT</b>	\$4,387,790.00	100.00%	

Small Business Development Signature: Eric Perez Date: 3/9/2021

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

**WASD is recommending 16.49%**