


Memorandum



Date: March 5, 2021

To: Gary Hartfield, Assistant Director
Small Business Development

From: Josenrique Cueto, P.E., Interim Director
Miami-Dade Water and Sewer Department 

Subject: Review Item: - Engineering Services for Upgrades to Miami-Dade's Wastewater Treatment Plants and their Appurtenant Facilities - Project No. E21-WASD-01

The Miami-Dade Water and Department (WASD) is requesting that the subject project be reviewed for Small Business Enterprise (SBE) measures for Architectural and Engineering (A/E), in order to proceed with the advertisement and subsequent consultant selection for this project.

WASD is seeking one (1) engineering firm to provide engineering services for proposed upgrades to Miami-Dade's wastewater treatment plants and their appurtenant facilities. A detailed scope of services is attached as "Notice to Professional Consultants." The term for the Non-Exclusive Professional Services Agreement (PSA) is six (6) years with one (1) two (2) year option-to-renew. The Maximum compensation for this PSA is ten million dollars (\$10,000,000), plus a ten percent (10%) contingency allowance in accordance with Ordinance 00-65. No minimum work or compensation will be assured to the retained Consultant.

The firm providing engineering services must be certified in the following technical categories with the respective percentages of the disciplines as indicated below:

Technical Category (TC)	Description	TC Percentage %	SBE TC %
6.03 PRIME	Water and Sanitary Sewer Systems -- Water and Sanitary Sewage Treatment Plants	5	0
11.00 PRIME	General Structural Engineering	10	0
12.00 PRIME	General Mechanical Engineering	30	0
13.00 PRIME	General Electrical Engineering	5	0
16.00 PRIME	General Civil Engineering	10	2
17.00 PRIME	Engineering Construction Management	10	3

6.01 OTHER	Water and Sanitary Sewer Systems – Water Distribution and Sanitary Sewage Collection and Transmission Systems	10	2
6.02 OTHER	Water and Sanitary Sewer Systems – Major Water and Sanitary Sewage Pumping Facilities	5	3
10.05 OTHER	Environmental Engineering – Contamination Assessment and Monitoring	5	5
15.01 OTHER	Surveying and Mapping – Land Surveying	10	5
	TOTAL	100	20%

WASD is recommending a twenty percent (20%) SBE A/E goal. Attached are WASD's Departmental Input Worksheet and the Notice to Professional Consultants for your review and approval. Should you have any questions, please contact Patty Palomo, Chief, Intergovernmental Affairs Section at patty.palomo@miamidade.gov or (786) 552-8040.

Attachments

**MIAMI-DADE COUNTY, FLORIDA
NOTICE TO PROFESSIONAL CONSULTANTS
MIAMI-DADE WATER AND SEWER DEPARTMENT
ENGINEERING SERVICES FOR UPGRADES TO MIAMI-DADE'S WASTEWATER
TREATMENT PLANTS AND THEIR APPURTENANT FACILITIES
PROJECT NO. E21-WASD-01**

The County Mayor, Miami-Dade County (County), pursuant to Section 287.055, Florida Statutes, 2-8.1, 2-8.2.12 and 2-10.4 of the Miami-Dade County Code, Administrative Order 3-39 and Ordinance 14-77, announces that the Miami-Dade Water and Sewer Department (WASD) will require professional engineering services from one (1) qualified Consultant to provide engineering services for upgrades to Miami-Dade's Wastewater Treatment Plants and their appurtenant facilities.

WASD is the primary provider of water and wastewater services to Miami-Dade County serving a population of over 2.3 million, making it among the largest water/wastewater utilities in the United States. WASD has developed a Multi-Year Capital Improvement Program to upgrade its facilities and infrastructure system throughout the County in order to renew and replace its existing deteriorated system, and to ensure with efficient, proper management, operation and maintenance practices and to accommodate future growth and development.

SCOPE OF SERVICES:

The scope of work consists of engineering services including but is not limited to, planning, design, design services during construction and construction management of capital improvements within the three existing wastewater treatment plants and their appurtenant facilities. Capital improvements may include plant upgrades and expansion and may include renewal and replacement projects for the plant's existing facilities. Engineering services during the design phase may include performing preliminary site investigations, surveying, hydraulic and process modeling and analysis, coordination with other utilities, preparation of design reports, preparation of drawings, and contract specifications for structural, mechanical, electrical and instrumentation projects. Services during the permitting and procurement phases may include obtaining dry-run permits and participation in obtaining final environmental and building permits. Construction management services are required to provide technical support during construction, including site inspections and attendance at meetings, review of shop drawings, processing payment requisitions, responding to information requests, review of claims and potential change orders, review of contract schedules and schedule of values, and review of as-built drawings. Project coordination services are anticipated to include, establishing a plan to implement projects, establish and track project schedules, budgets and deadlines, prepare status reports and attend meetings as requested.

Additional tasks are anticipated to include:

- a. Evaluation and formulation of plans for improving or optimizing the treatment processes including designing and conducting pilot studies.
- b. Conducting studies and providing recommendations related to improving plant operations and efficiency including safety, staffing, energy conservation, security, biosolids management, corrosion control and asset management issues. This includes site-specific staff training, preparation of operation and maintenance manuals and operational practices manuals.
- c. Provide services for evaluation of regulatory requirements including preparation of compliance documents and reports.

- d. Provide technical support and assistance for computer system data integration with the programs and systems currently utilized. Provide assistance in selecting and procuring software and hardware enhancements.
- e. Provide other engineering services related to the upgrades at the wastewater treatment plant as required, including participation on a Technical Advisory Committee.

PROJECT COST:

WASD intends to retain one (1) qualified firm under a Non-Exclusive Professional Services Agreement for a six (6) year term with a one (1) two (2) year option-to-renew. Maximum compensation for the contract is ten million dollars (\$10,000,000) plus a ten percent (10%) contingency allowance in accordance with Ordinance 00-65. No minimum amount of work or compensation will be assured to the retained consultant. The County reserves the right to re-use the work products of the retained consultant and to retain other consultants to provide the same or similar services at its sole discretion.

PREFERRED EXPERIENCE AND QUALIFICATIONS:

A Prime Consultant submitting a proposal shall be experienced in all phases of wastewater engineering, including design, permitting, construction, and operation and maintenance of wastewater treatment and disposal systems.

The Prime Consultant should also have experience with design and commissioning of wastewater treatment plant upgrades of similar scope and complexity. The Prime Consultant shall provide a list of members of the proposed Design Team, identifying the overall Design Manager(s), and the team leaders for key design specialties (process-liquid stream treatment, process-biosolids treatment, civil, structural, mechanical, electrical and instrumentation) and the specific role each one of them will perform.

The Prime Consultant shall have successfully designed and constructed at least one (1) major new or upgraded wastewater treatment plant(s) of similar size and scope as in this solicitation, which is currently in operation and in which the Prime Consultant was the designer. For projects which the Prime Consultant has served as the design consultant, the consultant shall provide the name and contact information for a Utility Executive with the utility they served as the design consultant who can confirm their role. The descriptions shall include the client (i.e., municipality or agency), key project staff, the project name, a summary of the work performed, the contract amount, the schedule (to include start and completion dates), the specific role of the Prime firm, the achievements (e.g., projects delivered on schedule, dollars saved, innovative designs implemented, new technology utilized), and a client reference and contact information. All work with WASD of a similar nature should likewise be described to assure familiarity with WASD's system.

The Subconsultants shall have at least one (1) project(s) that is relevant to this scope of work specific to their proposed responsibilities. The descriptions shall include the client (i.e., municipality or agency), key project staff, a summary of the work performed, the contract amount, the schedule (to include start and completion dates), the specific role of the Subconsultant firm, the project's achievements, and client reference and contact information. All work with WASD of a similar nature should likewise be described to assure familiarity with WASD's system.

A/E TECHNICAL CERTIFICATION REQUIREMENTS

PRIME

- 6.03 Water and Sanitary Sewer Systems – Water and Sanitary Sewage Treatment Plants
- 11.00 General Structural Engineering
- 12.00 General Mechanical Engineering
- 13.00 General Electrical Engineering
- 16.00 General Civil Engineering
- 17.00 Engineering Construction Management

PRIME AND/OR SUBCONSULTANTS

- 6.01 Water and Sanitary Sewer Systems - Water Distribution and Sanitary Sewage Collection and Transmission Systems
- 10.05 Environmental Engineering – Contamination Assessment and Monitoring
- 15.01 Surveying and Mapping – Land Surveying

**DEPARTMENTAL INPUT
CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

Contract/Project Title: Engineering Services for Proposed Upgrades to Miami-Dade's Wastewater Treatment Plants and Appurtenant Facilities

Contract/Project No. E21-WASD-01

Description: Engineering Services for Proposed Upgrades to Miami-Dade's Wastewater Treatment Plants and Appurtenant Facilities

DEPARTMENT: Miami-Dade Water and Sewer Department (WASD) **CONTACT:** Patty Palomo
PHONE: (786) 552-8040

Estimated Cost: One (1) contract for \$10,000,000 with a 10% contingency allowance in accordance with Ordinance 00-65.

Funding Sources: Future WASD Revenue Bonds, WASD Revenue Bonds Sold, Wastewater Renewal Fund, WIFIA Loan, Wastewater Connection Charges, and Wastewater Special Construction Fund

ANALYSIS

Commodity/Service No. _____ SIC: _____
Trade/Commodity/Service Opportunities _____

Contract/Project History of Previous Purchases for Previous Three (3) Years
Check Here if this is a New Contract/Purchase with no Previous History

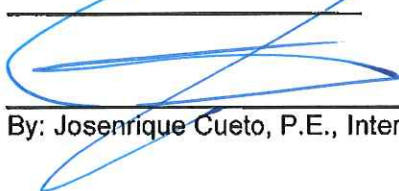
	<u>Existing</u>	<u>2nd Year</u>	<u>1st Year</u>
Contractor _____	_____	_____	_____
Ethnicity/Race _____	_____	_____	_____
Gender _____	_____	_____	_____
Contract Value _____	_____	_____	_____

COMMENTS: _____

RECOMMENDATIONS

<u>SBE GOAL</u>	<u>BID PREFERENCE</u>	<u>NO MEASURE</u>
<u>20 A/E</u> %	_____	_____
<u>0 G/S</u> %	_____	_____
	<u>Analysis for Goal Recommendation</u>	
<u>Sub-Trade</u>	<u>Est. Cost</u>	<u>% of Item to Base Bid</u>
_____	\$ _____	_____
_____	\$ _____	_____
_____	\$ _____	_____
Total:	\$ _____	_____
		<u>Availability</u>

Basis for Recommendation: WASD proposes that the goal can be achieved with SBE firms assisting with 6.01 – 2%, 6.02 – 3%, 10.05 – 5%, 15.01 – 5%, 16.00 – 2%, and 17.00 – 3%.

By:  Josenrique Cueto, P.E., Interim Director Date: 3/15/21 Internal Services Department Date: _____