

Memorandum



Date: July 17, 2015

To: Tara Smith, Director
Internal Services Department

From: Lester Sola, Director
Miami-Dade Water and Sewer Department

Subject: Review Item: Engineering Services for the Proposed Upgrades to the Miami-Dade Central District Wastewater Treatment Plant and its appurtenant facilities including Pump Stations 1 and 2 - Project No. E15-WASD-10

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) and Goods and Services (G/S), in order to proceed with the advertisement and subsequent consultant selection for this project.

WASD is seeking professional engineering and construction management services for the proposed upgrades to the Miami-Dade Central District Wastewater Treatment Plant and its appurtenant facilities including Pump Stations 1 and 2. A detailed scope of services is attached as "Notice to Professional Consultants." The term of the Non-Exclusive Professional Services Agreement (PSA) is six (6) years with a two (2) year option-to-renew. Maximum compensation is \$8,000,000, plus a ten percent (10%) contingency allowance in accordance with Ordinance 00-65. No minimum work or compensation will be assured to the retained consultants.

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

Technical Categories (TC)	Description	Percentage	
		TC %	SBE %
6.03 PRIME	Water and Sanitary Sewage Treatment Facilities	22%	12%
11.00 PRIME	General Structural Engineering	13%	
12.00 PRIME	General Mechanical Engineering	15%	
13.00 PRIME	General Electrical Engineering	15%	5%
16.00 PRIME	General Civil Engineering	10%	5%
17.00 PRIME	Engineering Construction Management	14%	8%
6.01	Water Distribution and Sanitary Sewage Collection and Transmission Systems	3%	3%

6.02	Major Water and Sanitary Sewage Pumping Facilities	3%	
10.09	Wellfield, Groundwater, and Surface Water Protection and Management	3%	
15.01	Land Surveying	2%	2%
	Total	100%	35%

WASD is recommending a thirty-five percent (35%) SBE A/E and zero point twenty-five percent (0.25%) SBE G/S under this PSA. 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 David, Chief, Intergovernmental Affairs Section at pattyd@miamidade.gov or (786) 552-8040.

Attachments

c: Gary Hartfield, Assistant Director, Small Business Development

**NOTICE TO PROFESSIONAL CONSULTANTS
MIAMI-DADE WATER AND SEWER DEPARTMENT
ENGINEERING SERVICES FOR PROPOSED UPGRADES TO THE MIAMI-DADE
CENTRAL DISTRICT WASTEWATER TREATMENT PLANT AND
ITS APPURTENANT FACILITIES INCLUDING PUMP STATION 1 AND 2
PROJECT NO. E15-WASD-10**

The County Mayor, Miami-Dade County, pursuant to the Miami-Dade Water and Sewer Department (WASD) Consent Decree and Capital Improvement Programs Acceleration Ordinance Section 2-8.2.12 of the County Code, Chapter 287.055, Florida Statutes, and Administrative Order 3-39, announces that the Miami-Dade WASD will require professional engineering and construction management services from one (1) qualified Consultant to provide comprehensive engineering services to evaluate, rehabilitate and upgrade the infrastructure and operations of WASD's Central District Wastewater Treatment and its appurtenant facilities including Pump Station 1 and 2.

The three (3) wastewater treatment plant projects noted below will be procured concurrently, and Prime Consultants may submit proposals for all three (3) projects which shall be evaluated as set forth below. These projects are:

1. PROJECT NO. E15-WASD-10
Proposed Upgrades to the Central District Wastewater Treatment Plant and its Appurtenant Facilities including Pump Station 1 and 2
2. PROJECT NO. E15-WASD-11
Proposed Upgrades to the North District Wastewater Treatment Plant and its Appurtenant Facilities
3. PROJECT NO. E15-WASD-12
Proposed Upgrades to the South District Wastewater Treatment Plant and its Appurtenant Facilities

The scope of work consists of, but is not limited to, renewal and replacement projects for the plant's existing facilities including, evaluation of existing equipment condition, capacity and useful life expectancy, as well as preparation of a prioritized rehabilitation or replacement schedule and related design services. In addition, engineering may include design services for selected plant upgrades and/or renovations. Engineering services during the design phase may include performing preliminary site investigations, surveying, hydraulic modeling and analysis, coordination with other utilities, preparation of design reports, preparation of drawings, and contract specifications for structural, mechanical and electrical 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.

WASD intends to retain one (1) qualified firm under one (1) Non-Exclusive Professional Services Agreement (PSA) for this project. The proposals received for this project will be reviewed and ranked by the Competitive Selection Committee (CSC) members along with the other projects listed above. The CSC shall report to the County Mayor or Mayor's designee the recommended ranking of the firms. In the event that the same Prime consultant is the highest ranked firm on more than one of the three (3) projects noted above, the County Mayor or Mayor's designee shall determine the final ranking of the firms for the three (3) projects based on the CSC recommendation and the firm's capacity to perform the required services.

The term for this PSA is a six (6) year period. Maximum compensation for this PSA is \$8,000,000 plus contingency 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.

Minimum Experience and Qualifications:

A Prime Consultant submitting a proposal must 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.

TECHNICAL CERTIFICATION REQUIREMENTS

Prime

- 06.03 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

- 06.01 Water Distribution and Sanitary Sewage Collection and Transmission
- 06.02 Major Water and Sanitary Sewage Pumping Facilities
- 10.09 Wellfield, Ground Water and Surface Water Protection and Management
- 15.01 Land Surveying

Technical Categories (TC)	Description	Percentage	
		TC %	SBE %
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**DEPARTMENTAL INPUT
CONTRACT/PROJECT MEASURE ANALYSIS AND RECOMMENDATION**

Contract/Project Title: Engineering Services for the Proposed Upgrades to the Miami-Dade Central District Wastewater Treatment Plant and its appurtenant facilities including Pump Stations 1 and 2

Contract/Project No. E15-WASD-10

Description: Engineering Services for the Proposed Upgrades to the Miami-Dade Central District Wastewater Treatment Plant and its appurtenant facilities including Pump Stations 1 and 2

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

Estimated Cost: \$8,000,000, plus a 10% contingency allowance in accordance with Ordinance 00-65.

Funding Sources: WASD Revenue Bonds Sold and Future WASD Revenue Bonds

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

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

COMMENTS: _____

RECOMMENDATIONS

<u>SBE GOAL</u> 35 %	<u>BID PREFERENCE</u>		<u>NO MEASURE</u>
	<u>Analysis for Goal Recommendation</u>		
<u>Sub-Trade</u>	<u>Est. Cost</u>	<u>% of Item to Base Bid</u>	<u>Availability</u>
_____	\$ _____	_____	_____
_____	\$ _____	_____	_____
_____	\$ _____	_____	_____
	Total: \$ _____	_____	_____

Basis for Recommendation: WASD proposes that the goal can be achieved with SBE firms assisting with 6.01- 3%, 6.03- 12%, 13.00- 5%, 15.01- 2%, 16.00- 5%, and 17.00- 8%.

By: Lester Sola, Director Date: 7/16/15 Internal Services Department Date: _____