

# Memorandum



Date: March 29, 2016

To: Gary Hartfield, Assistant Director  
Division of Small Business Development  
Internal Services Department

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

Subject: Review Item: Design Services for Wastewater Treatment Plants related to the Ocean Outfall Legislation Projects; Project No. E16-WASD-03

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The Miami-Dade Water and Sewer Department (WASD) is requesting that the subject project be reviewed for Small Business Enterprises (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 intends to retain three (3) qualified firms under three (3) separate Non-Exclusive Professional Services Agreement (PSA) for this project. The term for each PSA is five (5) years with two (2) five (5) year option-to-renew. Maximum compensation for each PSA is thirty million dollars (\$30,000,000.00), plus a ten percent (10%) contingency allowance in according with Ordinance 00-65. No minimum amount of work or compensation will be assured to the retained Consultant.

WASD is recommending a twenty percent (20%) SBE A/E and one percent (1%) SBE G/S under commodity code 91842 under this agreement. 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 (786) 552-8040 or [patty.palomo@miamidade.gov](mailto:patty.palomo@miamidade.gov).

Attachments

c: Patty Palomo, WASD

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

**Contract/Project Title:** Design Services for Wastewater Treatment Plants related to the Ocean Outfall Legislation Projects

**Contract/Project No.** E16-WASD-03

**Description:** Design Services for Wastewater Treatment Plants related to the Ocean Outfall Legislation Projects

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

**PHONE:** (786) 552-8040

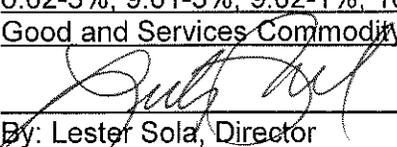
**Estimated Cost:** Three (3) contracts at \$30,000,000 each, plus a 10% contingency allowance in accordance with Ordinance 00-65.

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

**ANALYSIS**

Commodity/Service No. _____	SIC: _____
<u>Trade/Commodity/Service Opportunities</u>	
<b>Contract/Project History of Previous Purchases for Previous Three (3) Years</b>	
<b>Check Here if this is a New Contract/Purchase with no Previous History</b>	
	<u>Existing</u> <u>2<sup>nd</sup> Year</u> <u>1<sup>st</sup> 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>1 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:	\$ _____	_____
<b>Basis for Recommendation:</b> <u>WASD proposes that the goal can be achieved with SBE firms assisting with 6.02-3%, 9.01-3%, 9.02-1%, 10.05-1%, 12.00-2%, 15.01-5%, 16.00-2% and 17.00-3%.</u>		
<u>Good and Services Commodity Code: 91842 "Engineering Consulting"</u>		
	<u>3/29/16</u>	_____
By: <u>Lester Sola, Director</u>	Date: _____	Internal Services Department      Date: _____

**MIAMI-DADE COUNTY  
NOTICE TO PROFESSIONAL CONSULTANTS  
MIAMI-DADE WATER AND SEWER DEPARTMENT  
DESIGN SERVICES FOR WASTEWATER TREATMENT PLANTS RELATED TO THE  
OCEAN OUTFALL LEGISLATION PROJECTS  
ISD PROJECT NO. E16-WASD-03**

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 WASD will require three (3) Consultants to provide professional engineering, and architectural services for design services for wastewater treatment plant projects related to the State of Florida Ocean Outfall Legislation (OOL).

**Participation Preclusions**

WASD has previously retained CH2M Hill, Inc., as the Owner's Representative under Project No. E13-WASD-11. The Owner's Representative will oversee the administration of the selected design Consultants in conjunction with WASD's Senior Project Manager. As such, CH2M Hill, Inc. and their subconsultants under Project Number E13-WASD-11 will be excluded from participating in this solicitation.

**Scope of Services**

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. The State of Florida has enacted legislation requiring utilities that own and operate ocean outfall for secondary effluent disposal to meet reuse and nutrient reduction requirements as established by the OOL by no later than 2025. WASD retained, through a professional services solicitation, the services of an Owner's Representative team which was tasked with planning Ocean Outfall Legislation compliance projects and developing the Compliance Plan. WASD recognizes the need for design services for the implementation of critical projects including, but not limited to, improvements for peak flow treatment, expansion of filtration and disinfection systems for secondary effluent treatment, treatment plant process upgrades and/or expansions.

The selected Consultants will perform design development, engineering, prepare construction documents, permitting and bid services, and design services during construction for facility improvements at the County's wastewater treatment plants for projects relate to the OOL. The Consultants selected will be required to work in coordination with WASD staff and Owner's Representative to deliver the necessary design documents to ensure the timely completion of projects associated with the OOL as described on the OOL Compliance Plan as prepared by the Owner's Representative Team.

Design services to be provided by the Consultants will include, but are not limited to, the following:

- 1) Conduct design engineering of facilities required for the upgrade and/or expansion of wastewater treatment plants;
- 2) Conduct analysis and studies as needed to support design phase services;
- 3) Develop technical specification and construction documents;
- 4) Assist WASD in evaluation and preparation of procurement methods for equipment;

- 5) Assist WASD in permitting and regulatory interaction with agencies as required to ensure regulatory compliance with the Ocean Outfall Plan;
- 6) Assist WASD in the bid process, including responding to Request for Information (RFI's), reviewing bids, preparation of conformed documents;
- 7) Provide design services during construction including, but not limited to, reviewing and responding to all contractor submittals, review and respond to all contractor claims, review and respond to RFI's, start up and testing services and review of final certification documents provided by the contractor;
- 8) The Design Consultants shall coordinate project progress and submittals with WASD and the Owner's Representative/Project Manager.
- 9) Participate in project coordination and regular meetings with OOL Owner's Representative and WASD.

WASD intends to retain three (3) qualified firms under three (3) separate Non-Exclusive Professional Services Agreement (PSA). The proposal received for this project will be reviewed and ranked by the Competitive Selection Committee members. The three (3) highest ranked, responsive and responsible firms will be selected and forwarded to the County Mayor or the Mayor's designee for negotiations and award. Maximum compensation for each PSA is thirty million dollars (\$30,000,000.00), plus a ten percent (10%) contingency allowance in according with Ordinance 00-65. The term for each PSA is five (5) years with two (2) five (5) year option-to-renew. No minimum amount of work or compensation is guaranteed to the retained Consultants. The County reserves the right to re-use the work products of the retained Consultants and to retain other Consultants to provide the same or similar services at its sole discretion.

#### **Minimum Experience and Qualifications**

The Prime and/or Subconsultants (Team) submitting a proposal must be experienced in the design, permitting and construction management of large regional wastewater treatment plant.

The Team should have experience with design and commissioning (start up, testing and operator training) of wastewater treatment plant upgrades of similar scope and complexity. The Team shall provide a list of members of the design team, identifying the overall design manager(s), and the team leaders for key design specialties (process-liquids and solids stream treatment, civil, structural, mechanical, electrical, and instrumentation) and the specific role each one will perform.

The Team shall demonstrate experience with at least one (1) successfully designed, constructed and currently operating new/upgraded wastewater treatment plant(s) with at least one (1) being a high purity oxygen wastewater treatment plant with a capacity of fifty (50) million gallons per day or greater, and/or one (1) being a wastewater treatment plant with filtration and disinfection of secondary effluent to meet Florida Department Environment Protection High Level Disinfection standards of similar scope and size as in this solicitation in which a Team member(s) has served as the design consultant. For projects for in which a Team member(s) has served as the design consultant, the Team member(s) 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 dollars saved, innovated designs implemented, new technologies utilized), and a client reference and contact information.

The Subconsultant(s) shall provide experience 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 (e.g., projects delivered on schedule, dollars saved, innovative designs, etc.), and client reference and contact information. The expertise must be met by a qualified individual(s) of the Prime firm and Subconsultants. The experience must be demonstrated by direct or substantial involvement of the individuals(s) in a supervisory capacity at the project manager level or above.

The determination of the individual's qualifications and compliance with the experience and qualifications shall be at the sole discretion of the County. The Competitive Selection Committee may negatively evaluate proposals from firms they determine have failed to meet the above experience and qualifications(s).

**A/E TECHNICAL CERTIFICATION REQUIREMENTS**

**Prime**

- 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 Sub-Consultants**

- 6.02 Water and Sanitary Sewer Systems – Major Water and Sanitary Sewage Pumping Facilities
- 6.03 Water and Sanitary Sewer Systems - Water and Sanitary Sewage Treatment Plants
- 9.01 Soils, Foundations and Material Testing – Drilling, Subsurface Investigations and Seismographic Services
- 9.02 Soils, Foundations and Materials Testing – Geotechnical and Materials Engineering Services
- 10.05 Environmental Engineering – Contamination Assessment and Monitoring
- 15.01 Surveying and Mapping – Land Surveying

**BREAKDOWN LIST**

Technical Categories (TC)	Description	TC Percent (%)	TC SBE %
<b>11.00 Prime</b>	<b>General Structural Engineering</b>	10	0
<b>12.00 Prime</b>	<b>General Mechanical Engineering</b>	10	2
<b>13.00 Prime</b>	<b>General Electrical Engineering</b>	10	0
<b>16.00 Prime</b>	<b>General Civil Engineering</b>	5	2
<b>17.00 Prime</b>	<b>Engineering Construction Management</b>	10	3
6.02	Water and Sanitary Sewer Systems – Major Water and Sanitary Sewage Pumping Facilities	5	3

6.03	Water and Sanitary Sewer Systems – Water and Sanitary Sewage Treatment Plants	40	0
9.01	Soils, Foundations and Material Testing – Drilling Subsurface Investigations and Seismographic Services	3	3
9.02	Soils, Foundations and Material Testing- Geotechnical and Materials Engineering Services	1	1
10.05	Environmental Engineering – Contamination Assessment and Monitoring	1	1
15.01	Surveying and Mapping – Land Surveying	5	5
	<b>TOTAL</b>	100	20