

Memorandum



Date: January 28, 2020

To: Gary Hartfield, Division Director
Small Business Development

From: Juan Kuryla, Director
PortMiami

Subject: Recommendation for Non-exclusive Professional Services Agreement for Crane Program Engineering and Consulting Services, Contract No. E20-SEA-01, Project No. 2019-041

PortMiami respectfully requests that the Division of Small Business Development (SBD) evaluate Contract No. E20-SEA-01 / Project No. 2019-041 – Crane Program Engineering and Consulting Services, to assign Small Business Enterprise (SBE) measures, in order to proceed with the advertisement and subsequent bidding of the project.

Professional Services Agreement (PSA) for Crane Program Engineering and Consulting Services: The Consultant shall provide non-exclusive professional engineering services, for PortMiami's gantry cranes, rail, and structural support systems. The scope of services includes specific Crane Procurement, and Gantry Crane Program Engineering and Consulting Services.

1. **Crane Procurement:** The Consultant shall provide oversight and technical assistance to purchase, design, fabricate, erect, install, inspect, test, start-up, commission, ship, deliver, re-commission, test and certify gantry cranes, and cargo handling equipment such as spreaders. Services may include, but are not limited to: electrical controls drive system design; safety and control interlocks design; vessel profiling operations; hoisting system designs; hoisting hydraulic system design; gantry crane design oversight and reviews; specific metals and application engineering; equipment elevator design; fabrication engineering and Quality Assurance/Quality Control (QA/QC); on-site engineer at manufacturer's site during fabrication, erection, installation, commissioning, testing and shipping; specialty engineer trips to manufacturer's site during design, fabrication, erection, installation, commissioning and testing, as well as prior to shipment; review of all of manufacturer's drawings, calculations, submittals, reports, testing results, and manuals; trips to PortMiami for design reviews, project management, delivery, crane start-up, re-commissioning, testing, certification, and acceptance; review and adjustment of manufacturer's spare parts list as required; and review of operations and management of on-site third party inspection services as appropriate.
2. **Specific Gantry Crane Program Engineering and Consulting Services:** Services include, but are not limited to: general and specific gantry crane engineering; gantry crane infrastructure engineering of the crane systems, rail support systems (including, but not limited to the rail, which supports the cranes); with analysis and studies of PortMiami's gantry cranes, and cargo handling equipment to include, but not limited to spreaders. This work covers gantry crane program assistance; project assistance and management; equipment design; electrical controls drive system design; safety and control interlocks design; vessel profiling operations; hoisting system designs; hoisting hydraulic system design; gantry crane design oversight and reviews; specific metals and

application engineering; equipment elevator design; fabrication engineering and QA/QC; shipping, loading and unloading, testing, commissioning, gantry crane repair and maintenance procedures; inspections; assessments; disaster and damage recovery reports; claims assistance; calculations; testing; production analysis; preparation of reports and other specialty crane engineering services.

The Consultant shall provide all necessary professional services; site investigations; studies; modeling; engineering designs; steel structural engineering; mechanical and electrical engineering; cost estimates; value engineering coordination; manufacturing and fabrication documents; bidding assistance; site visits; inspections; fabrication administration including QA/QC inspection services, review of fabrication shop drawings, submittals, proposed substitutions, pay requests, and change orders; commissioning; Occupational Safety and Health Administration (OSHA) certification; claims assistance coordination; and any supportive ancillary tasks to the primary scope of services to successfully complete all phases of the project.

In addition, all work shall be conducted to meet or exceed professional standards, comply with PortMiami Security requirements, and PortMiami Design Guidelines.

A/E Technical Certification Categories required:

TC No.	Type	Description	Percentage	Total Amount
5.01	Prime	Port and Waterway Systems – Engineering Design	25%	\$ 550,000.00
5.05	Prime	Port and Waterway Systems – Cargo Terminal Design	10%	\$ 220,000.00
5.06	Prime	Port and Waterway Systems – Cargo Terminal Equipment Design	50%	\$ 1,100,000.00
12.00	SBE-A/E	General Mechanical Engineering	1%	\$ 22,000.00
13.00	SBE-A/E	General Electrical Engineering	1%	\$ 22,000.00
16.00	Other	General Civil Engineering	0.5%	\$ 11,000.00
17.00	Other	Engineering Construction Management	9%	\$ 198,000.00
19.05	Other	Value Analysis and Life Cycle Costing – Port and Waterway Systems	2%	\$ 44,000.00
N/A	Other	Project Cost Estimating	1.5%	\$ 33,000.00
Total Professional Consulting Fees			100%	\$ 2,200,000.00

The Prime Consultant must hold Technical Certifications 5.01 - Port and Waterway Systems - Engineering Design, 5.05 - Port and Waterway Systems - Cargo Terminal Design, and 5.06 - Port and Waterway Systems – Cargo Terminal Equipment Design. Interested Professional Firms shall be certified by Miami-Dade County at the time of qualifications submittal in the Technical Certification Categories identified above.

The Prime Consultant is preferred to have five (5) years' experience of similar gantry crane engineering work as described in the project description. This expertise must be met by qualified individual(s) of the Prime Consultant's team. The Competitive Selection Committee may negatively evaluate proposals from firms they determine failed to meet the above experience and qualification(s).

Prime and sub-consultants selected to render services under the PSAs for ISD Project Nos.: E15-SEA-02, Program Management Consultant Services (AECOM Technical Services, Inc., CES Consultants, Inc., Cristina Fandino Architect, Inc., Charesse Chester & Associates, Inc., Goal Associates, Inc., HBC Engineering Company, Nancy Leikauf and Associates, LLC., Nova Consulting, Inc., Program Controls, Inc., URS Corporation Southern, and U.S. Cost Incorporated dba RIB U.S. Cost); E18-SEA-03, Program Management Consultant Services (AECOM Technical Services, Inc., 300 Engineering Group PA, CFM Architects, Inc., HBC Engineering Company, Leanna Cumber & Associates, Longitude Surveyors LLC, Nova Consulting, Inc., Nova Engineering & Environmental LLC, Program Controls, Inc., and U.S. Cost Incorporated dba RIB U.S. Cost); E14-SEA-01R, Management Financial Consulting and Bond Engineering Services (Architects International, Inc., G.M. Selby, Inc., John C. Martin Associates, LLC and Arcadis NV); and E18-SEA-06, Management Financial Consulting and Bond Engineering Services (Raftelis Financial Consultants, Inc., John C. Martin Associates LLC, and Marlin Engineering, Inc.) **are precluded** from rendering services under the PSA resulting from this solicitation.

The SBE goal recommendation is 2% for architectural and engineering services. The PSA will be in the approximate amount of \$2,200,000.00, which includes the 10% contingency, and shall remain in effect for a total of five (5) years. Should you have any questions, please feel free to contact Ms. Elizabeth Ogden, R.A., LEED AP, Assistant Director, Capital Development at (305) 347-5521.

Attachment

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

Contract/Project Title Crane Program Engineering and Consulting Services
 Contract/Project No. Contract No. E20-SEA-01 / Project No. 2019-041
 Description See attached Scope of Work
 Department Seaport Contact Elizabeth Ogden Phone (305) 347-5521
 Estimated Cost 1 Agreement for \$2,200,000.00 Funding Source Future Financing

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 Previous History

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

RECOMMENDATIONS

<u>SBE A&E GOAL</u>	<u>BID PREFERENCE</u>	<u>NO MEASURE</u>	
<u>2.00%</u>	<u>N/A</u>	_____	
<u>SBE G&S GOAL</u>	<u>BID PREFERENCE</u>	<u>NO MEASURE</u>	
_____	<u>N/A</u>	<u>X</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>
<u>5.01 Port & Waterway Systems - Engineering Design (Prime)</u>	<u>\$ 550,000.00</u>	<u>25%</u>	_____
<u>5.05 Port & Waterway Systems - Cargo Terminal Design (Prime)</u>	<u>\$ 220,000.00</u>	<u>10%</u>	_____
<u>5.06 Port & Waterway Systems - Cargo Terminal Equipment Design (Prime)</u>	<u>\$ 1,100,000.00</u>	<u>50%</u>	_____
<u>12.00 General Mechanical Engineering</u>	<u>\$ 22,000.00</u>	<u>1%</u>	<u>>3</u>
<u>13.00 General Electrical Engineering</u>	<u>\$ 22,000.00</u>	<u>1%</u>	<u>>3</u>
<u>16.00 General Civil Engineering</u>	<u>\$ 11,000.00</u>	<u>0.5%</u>	<u>>3</u>
<u>17.00 Engineering Construction Management</u>	<u>\$ 198,000.00</u>	<u>9%</u>	<u>>3</u>
<u>19.05 Value Analysis & Life Cycle Costing - Port and Waterway Systems</u>	<u>\$ 44,000.00</u>	<u>2%</u>	<u><3</u>
<u>Project Cost Estimating</u>	<u>\$ 33,000.00</u>	<u>1.5%</u>	_____
<u>Total</u>	<u>\$ 2,200,000.00</u>	<u>100%</u>	_____
Basis for Recommendation <u>See attached.</u>			
By: <u>Seaport Department</u>		Date to SBA/DPM _____	