

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

**ROID**

**New contract**   
  **OTR**   
  **CO**   
  **SS**   
  **BW**   
  **Emergency**  
 **Re-Bid**   
  **Other**

Previous Contract/Project No.: RTQ-00683

LIVING WAGE APPLIES: \_\_\_ YES  NO

Requisition/Project No: RTQ-01233/ROSP1900005

TERM OF CONTRACT: 3 YEARS

Requisition/Project Title: Vessel Simulation Services

Description: Provision of vessel simulation services for PortMiami.

User Department: PortMiami/Seaport

Issuing Department: ISD / PM

Contact Person: Sophia Cunningham, 305-375-2179; [Sophia.Cunningham@miamidade.gov](mailto:Sophia.Cunningham@miamidade.gov)

Estimated Cost: \$500,000

Funding Source: Proprietary Funds  
Revenue Generating: N/A

**ANALYSIS**

Commodity/Service No: 91842, 91838, 91846, 95935, 90642, 03547    SIC:			
<b>Trade/Commodity/Service Opportunities</b>			
Contract/Project History of Previous Purchases For Previous Three (3) Years Check Here <input type="checkbox"/> if this is a New Contract/Purchase with no Previous History			
	<u>PREVIOUS</u>	<u>2<sup>ND</sup> YEAR</u>	<u>3<sup>RD</sup> YEAR</u>
<b>Contractor:</b>	American Maritime Officers Safety and Education Plan (dba) Star Center; M.M. & P Maritime Advancement, Training, Education and Safety Program (dba) <i>The Maritime Institute of Technology and Graduate Studies</i> (MITAGS); Moffatt & Nichol, Inc.; Safeguard Marine, LLC; W.F. Baird & Associates Limited Inc.; and Braemar Holdings (USA) Inc.		
<b>Small Business Enterprise:</b>			
<b>Contract Value:</b>			
<b>Comments:</b> Established pool of vendors listed above			
Continued on another page (s): ___ Yes <input checked="" type="checkbox"/> No			

**RECOMMENDATIONS**

SBE	Set-Aside	Sub-Contractor Goal	Bid Preference	Selection Factor
		%		
		%		
		%		
		%		

**Basis of Recommendation:**

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Signed: Sophia Cunningham

Date to DBD: 05/28/2019

Date Returned to DPM: \_\_\_\_\_

## SECTION 2

### SPECIAL TERMS AND CONDITIONS

#### **2.1** PURPOSE

This Request to Qualify (RTQ) will establish a Prequalified Pool of Vendors (Pool) that will be used to solicit vessel simulation services for Miami-Dade County (County). Placement in the Pool is **not** a contract between the County and the Vendor, but an acknowledgement that the Vendor meets the qualifications as outlined throughout this RTQ. Vendor Submittals are accepted throughout the term of the RTQ for placement in such Pool

#### **2.2** DEFINITIONS

**Invitation to Quote (ITQ)** – Shall refer to the solicitation of quotes from the Pool for specific goods and/or services; and awarded based on lowest price, or other quantifiable criteria.

**Prequalified Pool of Vendors (Pool)** – Shall refer to business entities/individuals determined by the County's Internal Services Department, Strategic Procurement Division, as meeting the minimum standards of business competence, financial ability, and/or product quality for placement in the Pool, and which may submit quote or proposal, at the time of need.

**Vendor** – Shall refer to a business entity/individual responding to this RTQ.

**Submittal** - Shall refer to all information, attachments and forms submitted in response to this RTQ.

**Work Order Proposal Request (WOPR)** – Shall refer to the solicitation of offers from the Prequalified Pool of Vendors for specific goods and/or services; and evaluated and awarded based on best value.

#### **2.3** TERM

The Pool shall be established on the first calendar day of the month succeeding approval by the Board of County Commissioners, or designee, unless otherwise stipulated in the Blanket Purchase Order issued by the Internal Services Department, Strategic Procurement Division. The Pool shall expire on the last day of the thirty-sixth (36<sup>th</sup>) month.

#### **2.4** QUALIFICATION CRITERIA

In order to be considered for placement in the Pool and for participation in future solicitations, Vendor shall provide:

1. Two (2) signed professional references on the referenced company's letterhead, to demonstrate that Vendor is regularly engaged in the business of providing vessel simulation services and has provided such services within the last five (5) years. The County must be able to ascertain from Vendor provided references, to its satisfaction, at the County's sole discretion, that Vendor holds sufficient experience and capacity in providing vessel simulation services.
2. Verifiable proof (copies of analyses, reports, studies, etc.) of two (2) vessel simulation projects for any port which the Vendor has ongoing or has completed within the last five (5) years.
3. A list of vessels which have been modeled by the Vendor.

Vendors shall provide all of the specified information, documents and attachments listed above with their Submittal as proof of compliance with the requirements of this RTQ. However, the County may, at its sole discretion and in its best interest, allow Vendors to complete, supplement or supply the required documents throughout the term of the RTQ. It shall be the sole right of the County to determine the number of Vendors which will be included in the Pool. During the term of the RTQ, the County reserves the right to add or delete Vendors as it deems necessary, and in its best interest.

## 2.5 **INSURANCE**

Insurance is **not** required in order to be prequalified under this RTQ. Insurance requirements will be detailed in the subsequent ITQ or WOPR.

## 2.6 **SPOT MARKET QUOTES**

Vendors in the Pool will be invited to participate in future spot market competition, as needed. The spot market competition will be in the form of an ITQ or WOPR that will include the specific goods and/or services required, and may include provisions, as applicable, such as:

- Small Business Enterprise (SBE) Measures
- Warranty Requirements
- Liquidated Damages
- Living Wage



## SECTION 3

### TECHNICAL SPECIFICATIONS

#### **3.1 BACKGROUND**

PortMiami, formally the Dante B. Fascell Port of Miami, is one of the largest and busiest cargo and passenger ports in the world. To retain its competitive rank as a world-class port, PortMiami is embarking on the development and implementation of various projects outlined in the 2035 Master Plan. The projects are aimed at increasing both cargo and passenger throughput by adding services, enhancing efficiency, upgrading infrastructure and increasing berthing capacity. As part of the expansion program, PortMiami completed the deep dredge project which increased the channel to 50-52', and the widening of the South Ship Channel from 500' to 600'. Projects currently in progress include modification and/or expansion of terminal facilities, and the construction of new cruise terminals and berths.

#### **3.2 INTRODUCTION**

Pre-qualified Vendors will be invited to participate in projects on an as-needed basis. The purpose of the vessel simulation services is to identify best practices for safe and economic maritime operations at PortMiami's facilities. The use of geographic and hydrodynamic models will assist in examining new port designs, pier or channel modifications, and the suitability of design for a particular vessel or vessel types that use, or may use PortMiami's facilities.

#### **3.3 SCOPE OF SERVICES**

The County seeks to create a Pool of Vendors with proven expertise in performing vessel simulation services for ports. Vendors providing simulation services must be capable of utilizing computer generated geographic databases for target objects and hydrodynamic ship models in real time modeling, training and research. Vendors are required to be equipped with high-fidelity graphics, capable of depicting precise and accurate ship hydrodynamic behavior. The vessel simulations must have the ability to compute wave and swell forces accurately. Accurate wave force computation is critical for the modeling of dynamic positioning, along with wind and current forces.

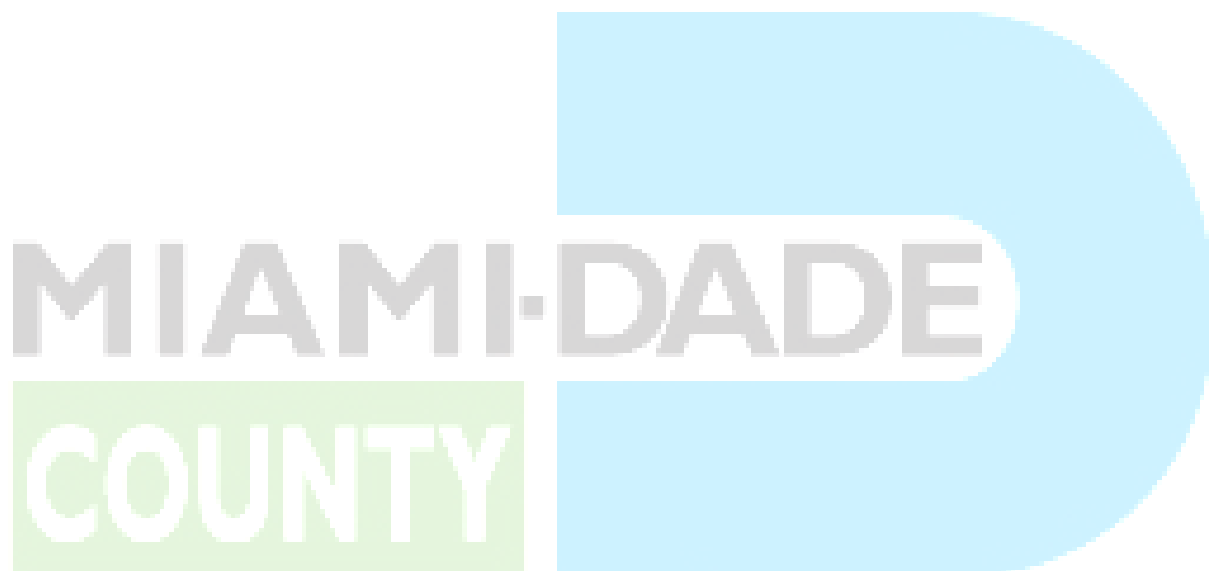
Vendors providing simulation services should have accurate current effects modeled using underwater profile and empirical coefficients for each force components. Empirical coefficients should be model test derived. Vendors must also have the capacity for specially programmed two (2) or three (3) dimensional current models.

Vessel simulations must model bottom effect forces using empirical coefficients as a fraction of the depth/draft ratio multiplied by deep water value. Type of bottom should be adjusted and be able to model anchor and chain forces, mooring and fender forces, pushing/towing effects and ship collisions. Vendors are required to have vessel profile libraries which include cruise ships, ro/ro vessels, bulk carriers, ferries, tankers, container ships, fuel carriers, tug boats, naval vessels and research vessels. Vendors are also required to be able to model new vessels not in their profile libraries.

PortMiami will provide Vendors with any necessary files to conduct the simulation services. These files include but are not limited to existing CADD files, data on waterside facilities, current bathymetric survey, etc. Simulations will be conducted by Vendors and the Biscayne Bay Pilots, in the presence of PortMiami staff and

captains from the cruise lines. As PortMiami is a restricted area, all sensitive information will be reviewed and approved by the Port Security and Law Enforcement teams prior to release.

At the conclusion of the research, simulation and computation tasks, Vendors must be able to issue written transiting and berthing analysis reports that detail the results of the study, discuss the results and implications, and offer solutions or suggestions for any problems encountered.



**SECTION 4**

**SUBMITTAL FORM**

**VENDOR:** \_\_\_\_\_

<b><u>QUALIFICATION CRITERIA TO BE COMPLETED BY ALL VENDORS</u></b>		
Refer to Section 2.4, Qualification Criteria, to ensure that Submittal complies with solicitation requirements.		
<b>Reference Section</b>	<b>Requirements</b>	<b>Copy Attached</b>
2.4 (1)	Two (2) signed professional references to demonstrate that Vendor is regularly engaged in the business of providing vessel simulation services and has provided such services within the last five (5) years.	<input type="checkbox"/>
2.4 (2)	Verifiable proof (copy of analyses, reports, studies, etc.) of two (2) vessel simulation projects for any port which the Vendor has ongoing or has completed within the last five (5) years.	<input type="checkbox"/>
2.4 (3)	A list of vessels which have been modeled by the Vendor.	<input type="checkbox"/>