Memorandum MIAMI-DADE

Date:

April 27, 2015

To:

Gary Hartfield, Division Director

Internal Services Department, Small Business Development

From:

Milton L. Collins, Associate Director

Miami-Dade Aviation Dept., Minority Affairs Division

Subject:

Re-Submittal of Recommendation of Contract Measures:

Photogrammetric Mapping and Light Detection and Ranging (LIDAR) Services

ISD Project No. E15-MDAD-01

RECOMMENDATION:

This is a re-submittal request for the Small Business Development (SBD) Division to approve the attached project, for contract measures in order for the department to proceed with the Photogrammetric Mapping and Light Detection and Ranging (LIDAR) Services, ISD Project No. E15-MDAD-01 project.

The User Division advised that this project will need to be re-submitted due to the estimated Project Amount being reduced to \$6,300,000.00 from the previous Contract Estimated Amount of \$12,000,000.00 (\$600,000/yr. per Department). The Term of the Agreement has also been revised to a term of four (4) years plus three (3) one-year options (total of seven (7). There were No changes in the Scope of Services or the breakdown of Services.

This project was approved by the Review Committee on 2/25/15 but is being resubmitted due to the Estimated Project Amount and the Term of the agreement being decreased. (Worksheet attached 2/25/15)

The Contract Measure established for the previous solicitation (E10-MDAD-03) was a No Measure based on the "Sole Consultant" requirement. (Previous Project Worksheet dated 6/23/2010 attached). MDAD is recommending an SBE-No Measure as the Contract Measure for this project.

This Agreement will be split between MDAD and ITD, as was the last Agreement for these services. The User Division has advised that an SBE-A/E "No Measure" is appropriate for this Contract. Also note that there are "No Special Requirements for a Sole Consultant" on this project.

BACKGROUND:

The Scope of Work provides for professional services to be performed for the ongoing need of photogrammetric/topographic/planimetric/LiDAR mapping for the Miami-Dade Aviation Department, Miami International Airport and the four County owned auxiliary airports which include Miami Executive Airport, Miami-Opa Locka Executive Airport, Miami Homestead General Airport and Dade Collier Training and Transition Airport, as well as, the coverage area of the County's enterprise Geographic Information System ("GIS") supported by the Information Technology Department ("ISD").

Re-Submittal of Recommendation of Contract Measures: Photogrammetric Mapping and Light Detection and Ranging (LIDAR) Services ISD Project No. E15-MDAD-01 Page 2 of 2

The selected Consultant shall provide the following services which may include but not be limited to the following:

<u>Photogrammetric Mapping Services:</u> photogrammetric mapping of Miami-Dade County, aerial photography, ground control, conventional topographic mapping, planimetric mapping, airspace mapping, cross sections, raster imagery, orthophoto products, photographic prints, and global positioning systems survey data.

Topographic LiDAR Services: collection and processing of LiDAR (light detection and ranging) data and generation of elevation data products, including but not limited to digital elevation model (DEM) data, airport exclusion zones, as well as professional services for integration of multiple 3D Laser Scanning Data, BIMs & analyses; 3D imaging which will provide 2D CAD plans, elevations and 3D geometric models and/or BIM required documenting as-built conditions. Services may be requested for many project types, including, but not limited to: new construction, renovations, and modernizations.

The areas covered include the airports serviced by MDAD, as well as the coverage area of the County's enterprise Geographic Information System (GIS) supported by ITD.

The areas included in the above mentioned services are as follows:

MDAD

MIA and the four (4) County owned auxiliary airports that include (1) Miami Executive Airport, (2) Miami-Opa Locka Executive Airport, (3) Dade Collier Training and Transition Airport, and, (4) Miami Homestead General Aviation Airport.

ITD

The main GIS coverage area consists of approximately 564 square miles inside the Urban Development Boundary (UDB) and 1,048 square miles outside the UDB. However, it may be possible that services will be requested for other square miles within the boundaries of Miami-Dade County such as areas within Everglades National Park.

Note: All data provided to MDAD must be compliant with the current Federal Aviation Administration ("FAA") guidelines and be compatible with MDAD's GIS database. All data provided to ITD must be compatible with the County's enterprise GIS database.

The Project Breakdown (Attached) shows that the Prime Certification Categories are:

15.01 Surveying and Mapping - Land Surveying (5%)

15.02 Surveying and Mapping – Aerial Photogrammetry (95%)

Attachments

cc: K. Delapenha, MDAD

M. Clark-Vincent, MDAD

L. Johnson, SBD

C. Corrales, MDAD

C. Taylor, SBD

Project File

REVISED MDAD'S CONTRACT MEASURES AND ANALYSIS WORKSHEET

To:

Gary Hartfield, Division Director

Internal Services Department, Small Business Development

From:

Milton L. Collins, Associate Director

Miami-Dade Aviation Department

Minority Affairs Division

PROJECT/CONTRACT TITLE:

Photogrammetric Mapping and Light Detection and Ranging (LiDAR) Services

PROJECT/CONTRACT NUMBER:

ISD Project No. E15-MDAD-01

DEPARTMENT:

Miami Dade Aviation Department

ESTIMATED PROJECT COST:

\$6,300,000.00

FUNDING SOURCE:

Revenue Funds

DESCRIPTION OF PROJECT/BID:

The Scope of Work provides for professional services to be performed for the ongoing need of photogrammetric/topographic/planimetric/LiDAR mapping for the Miami-Dade Aviation Department, Miami International Airport and the four County owned auxiliary airports which include Miami Executive Airport, Miami-Opa Locka Executive Airport, Miami-Homestead General Airport and Dade Collier Training and Transition Airport, as well as, the coverage area of the County's enterprise Geographic Information System ("GIS") supported by the Information Technology Department ("ISD").

CONTRACT MEASURES RECOMMENDATION:

Measures SBE-No Measure

REASONS FOR RECOMMENDATION:

Analysis of the factors contained in Implementing Order #3-32 indicates that a SBE-No Measure Goal is appropriate for this contract.



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	1,02 MASS AND RAPID TRANSIT PLANNING			
	1.03 AVIATION SYSTEMS AND AIRPORT MASTER PLANNING	<u> </u>		<u> </u>
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2,00	MASS TRANSIT SYSTEMS			-
	2.01 MASS TRANSIT PROGRAM (SYSTEMS) MANAGEMENT			
	2,02 MASS TRANSIT FEASIBILITY & TECHNICAL STUDIES			
	2.03 MASS TRANSIT VEHICLE & PROPULSION STUDIES			
	2.04 MASS TRANSIT CONTROLS, COMMUNICATIONS, & INFORMATION SYSTEMS.			
	2.05 GENERAL QUALITY ENGINEERING			
	2.06 MASS TRANSIT SAFETY CERTIFICATION FOR SYSTEM ELEMENTS			
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	5.06 CARGO TERMINAL EQUIPMENT DESIGN			
	6,07 SECURITY SYSTEMS	ļ		
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. <u></u>	5,09 ENVIRONMENTAL DESIGN			
,	5,10 TRANSPORTATION BYSTEMS DESIGN			
	6.11 CONSTRUCTION MANAGEMENT			
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	6.03 WATER AND SANITARY SEWAGE TREATMENT PLANTS			
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8.00	TELECOMMUNICATION SYSTEMS			
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	8,02 GEOTECHNICAL AND MATERIALS ENGINEERING SERVICE	s		
	9.03 CONCRETE AND ASPHALT TESTING SERVICES			
	9.04 NON-DESTRUCTIVE TESTING AND INSPECTIONS			
	9.05 ROOF TESTING AND CONSULTING			
	9.06 MATERIALS TESTING/CONSULTING/TRAINING			
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	10,03 BIOLOGY SERVICES			
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	10.05 CONTAMINATION ASSESSMENT AND MONITORING			
	10.06 REMEDIAL ACTION PLAN DESIGN			
	10.07 REMEDIAL ACTION PLAN IMPLEMENTATION/OPERATION/MAINTENANCE			
	10,08 PATHOGEN AND CONTAINMENT RISK ANALYSIS			
	10.09 WELLFIELD, GROUNDWATER, AND SURFACE WATER PROTECTION AND MANAGEMENT	_		,
	10.10 COASTAL PROCESSES AND OCEAN ENGINEERING			
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	19.07 SOLID WASTE COLLECTION AND DISPOSAL SYSTEMS			
	19,08 TELECOMMUNICATION SYSTEMS			
	19.09 SOILS, FOUNDATIONS, AND MATERIALS TESTING			
	18.10 ENVIRONMENTAL ENGINEERING			
	19.11 GENERAL STRUCTURAL ENGINEERING			7
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23.00	PLANNING			
24.00	BUILDING PRODUCT EVALUATION SERVICES			1
25,00	AVIATION PLANNING CONSULTANT SERVICES			
26.00	-CLAIMS ANALYSIS SERVICES			

^{*}Detailed descriptions of certification categories may be obtained from MDAD Contracts Administration;



Small Business Development Division Project Worksheet

Project/Contract Title:

PHOTOGRAMMETRIC MAPPING AND LIGHT DETECTION AND RANGING (LIDAR) SERVICES

Received Date:

02/25/2015

Project/Contract Net

B15-MDAD-01

Funding Source:

Departmenti

AVIATION

REVENUE FUNDS

Resubmittel Date(s):

Estimated Cost of Project/Bid: \$12,000,000.00

Description of Project/Bid: To establish a contra

To establish a contract for professional services to be performed for the engoing need of photogrammetric/topographic/planimetric/LDAR mapping for the Miami-Dade Avistica Department, Miami International Altricat, and the four County wased auxiliary supports which installs Miami-Baseoutive Airport, Miami-Opa Locks Executive Airport, Miami-Opa Locks Executive Airport, Miami-Opa Locks Executive Airport, as well as, the coverage area of the County's enterprise Geographic Information System ("CIS") supported by the information Technology Department ("USD").

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Dept. of Small Business Development Project Worksheet

PHOTOGRAMMETRIC MAPPING, LIGHT DETECTION, AND RANGING 06/23/2010 Project/Contract Title: RC Date: (LIDAR) SERVICES (SIC 871) Project/Contract No: E10-MDAD-03 1 Item No: Funding Source: MIAMI DADE AVIATION DEPARTMENT REVENUE-BUDGET Department: Resubmittal Date(s): Estimated Cost of Project/Bld: \$6,500,000.00 TO ESTABLISH A PROFESSIONAL FOR THE ONGOING NEED OF PHOTOGRAMMETRIC / TOPOGRAPHIC / PLANIMETRIC / Description of Project/Bid: LIDAR MAPPING FOR THE MIAMI -DADE AVIATION DEPARTMENT OF MIAMI INTERNATIONAL AIRPORT AND THE LIDAR MATTING FOR THE MIAMI-DADE AVIATION DETACTMENT OF MAINTENTACTURAL TURNAL THROAT. AND THE FOUR COUNTY OWNED AUXILIARY AIRPORT, WHICH INCLUDE KENDALL-TAMIAMI, EXECUTIVE AIRPORT, OPALOCKA EXECUTIVE AIRPORT, HOMESTEAD GENERAL AIRPORT AND DADE COLLIER TRAINING AND TRANSITION AIRPORT, AS WELL AS, THE COVERAGE AREA OF THE COUNTY'S ENTERPRISE GEOGRAPHIC INFORMATION SYSTEM (GIS) SUPPORTED BY (ESTD). Contract Measures Recommendation Goal Percent Program Measure CBE No Measure Reasons for Recommendation This project meets all the criteria set forth in A.O. 3-32, Section V ***Based on the "Sole Consultant" requirement, the only applicable measures are: a "Set-aside" or a "No Measure". The dollar value of this PSA precludes a "Set-aside"; additionally, the consultant must be certified in both 15.01- Land Surveying (@ 5%) and 15.02 -Aerial Photogrammetry (@ 95%); there are only two (2) CBEs satisfying these requirements. There are no options for a sub-consultant goal as the prime (a "Sole Consultant"), will be providing the entire scope/s of work. SIC 871- Architectural and Engineering Services Analysis for Recommendation of a Goal % of Items to Base Bid Estimated Value Subtrade Cat. CBE \$0.00 0.00% \$0.00 0.00% Living Wages:

Responsible Wages and Benefits applies to all construction projects over \$100,000 that do not utilize federal fund. For federally funded projects, unless prohibited by federal or state law or disallowed by a governmental funding source, the HIGHER wage between Davis Bacon and Responsible Wages and Benefits shall apply.

NO X

Responsible Wages:

REVIEW COMMITTE RECOMMENDATION					
Tier 1 Set Aside					
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Trade Set Aside (MCC)	Goal	Bid Preference			
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Chairperson, Review Committee Date	County Manager / D	signee Date ///			

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Memorandum



Date:

March 3, 2015

To:

Gary Hartfield, Division Director

Internal Services Department, Small Business Development

From:

Milton L. Collins, Associate Director

Miami-Dade Aviation Dept., Minority Affairs Division

Subject:

Recommendation of Contract Measures:

Photogrammetric Mapping and Light Detection and Ranging (LIDAR) Services

ISD Project No. E15-MDAD-01

RECOMMENDATION:

This is a request for the Small Business Development (SBD) Division to approve the attached project, for contract measures in order for the department to proceed with the advertisement for bids for the Photogrammetric Mapping and Light Detection and Ranging (LIDAR) Services, ISD Project No. E15-MDAD-01.

The Contract Measure established for the previous solicitation (E10-MDAD-03) was a No Measure based on the "Sole Consultant" requirement. (Previous Project Worksheet dated 6/23/2010 attached). MDAD is recommending an SBE-No Measure as the Contract Measure for this project.

This Agreement will be split between MDAD and ITD, as was the last Agreement for these services. The User Division has advised that an SBE-A/E "No Measure" is appropriate for this Contract. Also note that there are "No Special Requirements for a Sole Consultant" on this project.

Term of this Agreement will be for five (5) years and five (5) one year Options to Renew. The Contract Estimated Amount: \$12,000,000.00 (\$600,000/yr. per Department)

BACKGROUND:

The Scope of Work provides for professional services to be performed for the ongoing need of photogrammetric/topographic/planimetric/LiDAR mapping for the Miami-Dade Aviation Department, Miami International Airport and the four County owned auxiliary airports which include Miami Executive Airport, Miami-Opa Locka Executive Airport, Miami Homestead General Airport and Dade Collier Training and Transition Airport, as well as, the coverage area of the County's enterprise Geographic Information System ("GIS") supported by the Information Technology Department ("ISD").

The selected Consultant shall provide the following services which may include but not be limited to the following:

Recommendation of Contract Measures: Photogrammetric Mapping and Light Detection and Ranging (LIDAR) Services ISD Project No. E15-MDAD-01 Page 2 of 2

<u>Photogrammetric Mapping Services:</u> photogrammetric mapping of Miami-Dade County, aerial photography, ground control, conventional topographic mapping, planimetric mapping, airspace mapping, cross sections, raster imagery, orthophoto products, photographic prints, and global positioning systems survey data.

Topographic LiDAR Services: collection and processing of LiDAR (light detection and ranging) data and generation of elevation data products, including but not limited to digital elevation model (DEM) data, airport exclusion zones, as well as professional services for integration of multiple 3D Laser Scanning Data, BIMs & analyses; 3D imaging which will provide 2D CAD plans, elevations and 3D geometric models and/or BIM required documenting as-built conditions. Services may be requested for many project types, including, but not limited to: new construction, renovations, and modernizations.

The areas covered include the airports serviced by MDAD, as well as the coverage area of the County's enterprise Geographic Information System (GIS) supported by ITD.

The areas included in the above mentioned services are as follows:

MDAD

MIA and the four (4) County owned auxiliary airports that include (1) Miami Executive Airport, (2) Miami-Opa Locka Executive Airport, (3) Dade Collier Training and Transition Airport, and, (4) Miami Homestead General Aviation Airport.

ITD

The main GIS coverage area consists of approximately 564 square miles inside the Urban Development Boundary (UDB) and 1,048 square miles outside the UDB. However, it may be possible that services will be requested for other square miles within the boundaries of Miami-Dade County such as areas within Everglades National Park.

Note: All data provided to MDAD must be compliant with the current Federal Aviation Administration ("FAA") guidelines and be compatible with MDAD's GIS database. All data provided to ITD must be compatible with the County's enterprise GIS database.

The Project Breakdown (Attached) shows that the Prime Certification Categories are:

15.01 Surveying and Mapping - Land Surveying (5%)

15.02 Surveying and Mapping – Aerial Photogrammetry (95%)

Attachments

cc:

K. Delapenha, MDAD

M. Clark-Vincent, MDAD

L. Johnson, SBD

C. Taylor, SBD

C. Corrales, MDAD

Project File

REVISED MDAD'S CONTRACT MEASURES AND ANALYSIS WORKSHEET

To:

Gary Hartfield, Division Director

Internal Services Department, Small Business Development

From:

Milton L. Collins, Associate Director

Miami-Dade Aviation Department

Minority Affairs Division

PROJECT/CONTRACT TITLE:

Photogrammetric Mapping and Light Detection and Ranging (LiDAR) Services

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PROJECT/CONTRACT NUMBER:

ISD Project No. E15-MDAD-01

DEPARTMENT:

Miami Dade Aviation Department

ESTIMATED PROJECT COST:

\$12,000,000.00 (\$600,000.00 per year per

Department)

FUNDING SOURCE:

Revenue Funds

DESCRIPTION OF PROJECT/BID:

The Scope of Work provides for professional services to be performed for the ongoing need of photogrammetric/topographic/planimetric/LiDAR mapping for the Miami-Dade Aviation Department, Miami International Airport and the four County owned auxiliary airports which include Miami Executive Airport, Miami-Opa Locka Executive Airport, Miami-Homestead General Airport and Dade Collier Training and Transition Airport, as well as, the coverage area of the County's enterprise Geographic Information System ("GIS") supported by the Information Technology Department ("ISD").

CONTRACT MEASURES RECOMMENDATION:

Measures SBE-No Measure

REASONS FOR RECOMMENDATION:

Analysis of the factors contained in Implementing Order #3-32 indicates that a SBE-No Measure Goal is appropriate for this contract.



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^{*}Detailed descriptions of certification categories may be obtained from INDAD Contracts Administration