

# Memorandum



**Date:** October 29, 2015

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

**From:** Milton L. Collins, Associate Director *MLC*  
Miami-Dade Aviation Department, Minority Affairs Division

**Subject:** Contract Measures Request:  
Automated People Mover System Consultant at MIA  
ISD Project No. E15-MDAD-04

## **RECOMMENDATION:**

This is a request for the Small Business Development Division to approve the subject project in order for the Aviation Department to proceed with the **Automated People Mover System Consultant at MIA, Project No. E15-MDAD-04**. The Minority Affairs Division staff has reviewed the subject project and recommends a, **SBE-A/E Goal of 5%**.

The Contract Measures established are due to the specialization of the APM Consultant Minimum Qualifications needed in order to perform these services. Proposers and their key personnel must be experienced in performing similar services detailed in the SCOPE OF SERVICES FOR APM SYSTEM CONSULTANT FOR ALL MIAMI INTERNATIONAL AIRPORT (MIA) APM SYSTEMS below. Proposers and their key personnel must have prior experience as the prime consultant for similar services, and as a minimum, the Proposers must demonstrate; (1) experience with the Mitsubishi Heavy Industries (MHI) Crystal Mover System APM Technology; (2) experience with cable propelled APM System Technology; (3) experience in the modernization of APM systems and other related APM subsystems; (4) experience in conceptual development, planning, and design implementation of new APM systems; (5) experience in APM System/Infrastructure interfaces & integration; and (6) experience in development & management of an APM System Safety Program Plan (SSPP) including audits.

The Miami Dade Aviation Department is seeking APM Consultant Services to support on-going APM Operations and Maintenance Oversight System Safety Program Plan (SSPP) Support and other APM Technical Support Services as may be requested.

The estimated project amount will be \$5,500,000.00. The term of the agreement will be for five (5) years, plus one (1) five-year extension.

## **SCOPE OF SERVICES FOR APM SYSTEM CONSULTANT FOR ALL MIAMI INTERNATIONAL AIRPORT (MIA) APM SYSTEMS:**

Currently, there are two operating APM Systems at MIA – the North Terminal Skytrain and the MIA Mover. A third APM System is under contract to connect the main Terminal and Satellite E buildings/gates. While the North Terminal and the MIA Mover APM Systems are MHI Crystal Mover technologies, the Satellite E system will be a cable-propelled APM System supplied by Leitner Poma of America – this system is anticipated to become operational in 2016.

The scope of anticipated services for the APM Consultant are:

1. Support MDAD in the management and oversight of the APM System Operations and Maintenance for all three APM Systems – in support of the safe and reliable operations of the APM System. Currently, the O&M services for the MIA Mover and North terminal Skytrain are

being provided by a third party contractor. When the new Satellite E APM is operational, the related O&M services will also be provided by a third party contractor. Specific anticipated tasks/activities include:

- Oversee and on a regular basis audit the operations and maintenance of the APM Systems for conformance with established procedures, verify performance levels to contractual measures, investigate and identify reasons for not meeting performance levels, identify/recommend potential mitigation, etc.
- Activities to cover all subsystems including but not limited to vehicles, Automatic Train Control, Communications, Power Distribution, System Safety Program Plan (SSPP), regular SSPP audits, etc.
- Address performance levels including but not limited to On Time Performance (OTP), and System Availability including Fleet and Station Availability.
- Review the maintenance plans/procedures related to capital asset replacement program and make recommendations to MDAD.
- Support the Safety & Security Committee including initiating and auditing implementation of the SSPP by the O&M Contractor as part of the SSPP audits to be performed by FDOT.
- Support MDAD in contract administration including pay applications, verification of progress, calculation of payment deductions as required, etc.
- Support MDAD in technical evaluation and oversight of any modifications proposed to the established procedures or the APM system elements, including assisting in reviewing costs, support negotiations and oversee implementation of the modifications.
- Other related support activities as required by MDAD, including but not limited to potential APM System reconfiguration for operations, additional vehicles, modifications, etc.

Quality Assurance reviews of the O&M Contractors activities including but not limited to maintenance, MMIS, preventive maintenance, readiness drills, etc.

2. Other APM Technical Support Services – support MDAD in their planning, engineering, programming activities related to APM Systems at MIA as requested.

If additional information is needed in order to complete this process, please contact me at (305) 876-7221 or C. Corrales at (305) 876-7991.

Attachments

cc:	L. Johnson, SBD	A. Cordova-Jimenez, MDAD
	C. Taylor, SBD	P. Betancourt, MDAD
	C. Jose, MDAD	C. Corrales, MDAD
	M. Clark-Vincent, MDAD	File

## 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

*M L C*

**PROJECT/CONTRACT TITLE:** Automated People Mover System  
Consultant at MIA

**PROJECT/CONTRACT NUMBER:** Project No. E15-MDAD-04

**DEPARTMENT:** Miami Dade Aviation Department

**ESTIMATED PROJECT COST:** \$5,500,000.00

**FUNDING SOURCE:** Operating Funds

### DESCRIPTION OF PROJECT/BID:

Currently, there are two operating APM Systems at MIA – the North Terminal Skytrain and the MIA Mover. A third APM System is under contract to connect the main Terminal and Satellite E buildings/gates. While the North Terminal and the MIA Mover APM Systems are MHI Crystal Mover technologies, the Satellite E system will be a cable-propelled APM System supplied by Leitner Poma of America – this system is anticipated to become operational in 2016. More detailed information on the recommendation memorandum attached.

### CONTRACT MEASURES RECOMMENDATION:

**Measures 5% SBE-A/E Goal**

### REASONS FOR RECOMMENDATION:

**Analysis of the factors contained in Implementing Order #3-32 indicates that a SBE-A/E Goal is appropriate for this contract.**

4/10/15



AVIATION FACILITIES DIVISION

CAT. NO.	SERVICE DESCRIPTION *	PRIME CONSULTANT	SUB-CONSULTANT	PERCENT OF TOTAL CONSULTANT FEE
1.00	TRANSPORTATION PLANNING			
	1.01 URBAN AREA AND REGIONAL TRANSPORTATION PLANNING			
	1.02 MASS AND RAPID TRANSIT PLANNING	✓		6%
	1.03 AVIATION SYSTEMS AND AIRPORT MASTER PLANNING	✓		8%
	1.04 PORT AND WATERWAY SYSTEMS PLANNING			
2.00	MASS TRANSIT SYSTEMS			
	2.01 MASS TRANSIT PROGRAM (SYSTEMS) MANAGEMENT	✓		30%
	2.02 MASS TRANSIT FEASIBILITY & TECHNICAL STUDIES	✓		10%
	2.03 MASS TRANSIT VEHICLE & PROPULSION STUDIES		✓	7%
	2.04 MASS TRANSIT CONTROLS, COMMUNICATIONS, & INFORMATION SYSTEMS	✓		7%
	2.05 GENERAL QUALITY ENGINEERING		✓	1%
	2.06 MASS TRANSIT SAFETY CERTIFICATION FOR SYSTEM ELEMENTS		✓	1%
3.00	HIGHWAY SYSTEMS			
	3.01 SITE DEVELOPMENT AND PARKING LOT DESIGN			
	3.02 HIGHWAY DESIGN			
	3.02A TUNNEL DESIGN			
	3.03 BRIDGE DESIGN			
	3.04 TRAFFIC ENGINEERING STUDIES			
	3.05 TRAFFIC COUNTS			
	3.06 TRAFFIC CALMING			
	3.07 TRAFFIC SIGNAL TIMING			
	3.08 INTELLIGENT TRANSPORTATION SYSTEMS ANALYSIS, DESIGN, AND IMPLEMENTATION			
	3.09 SIGNING, PAVEMENT MARKING, AND CHANNELIZATION			
	3.10 LIGHTING			
	3.11 SIGNALIZATION			
	3.12 UNDERWATER ENGINEERING INSPECTION			



CAT. NO.	SERVICE DESCRIPTION	PRIME CONSULTANT	SUB-CONSULTANT	PERCENT OF TOTAL CONSULTANT FEE
4.00	AVIATION SYSTEMS			
	4.01 ENGINEERING DESIGN	✓		5%
	4.02 ARCHITECTURAL DESIGN			
5.00	PORT AND WATERWAY SYSTEMS			
	5.01 ENGINEERING DESIGN			
	5.02 ARCHITECTURAL DESIGN			
	5.03 CRUISE TERMINAL DESIGN			
	5.04 CRUISE TERMINAL EQUIPMENT DESIGN			
	5.05 CARGO TERMINAL DESIGN			
	5.06 CARGO TERMINAL EQUIPMENT DESIGN			
	5.07 SECURITY SYSTEMS			
	5.08 MARINE ENGINEERING DESIGN			
	5.09 ENVIRONMENTAL DESIGN			
	5.10 TRANSPORTATION SYSTEMS DESIGN			
	5.11 CONSTRUCTION MANAGEMENT			
6.00	WATER AND SANITARY SEWER SYSTEMS			
	6.01 WATER DISTRIBUTION AND SANITARY SEWAGE COLLECTION AND TRANSMISSION SYSTEMS			
	6.02 MAJOR WATER AND SANITARY SEWAGE PUMPING FACILITIES			
	6.03 WATER AND SANITARY SEWAGE TREATMENT PLANTS			
7.00	SOLID WASTE COLLECTION AND DISPOSAL SYSTEMS			
8.00	TELECOMMUNICATION SYSTEMS			
9.00	SOILS, FOUNDATIONS AND MATERIALS TESTING			
	9.01 DRILLING, SUBSURFACE INVESTIGATION AND SEISMOGRAPHIC SERVICES			
	9.02 GEOTECHNICAL AND MATERIALS ENGINEERING SERVICES			
	9.03 CONCRETE AND ASPHALT TESTING SERVICES			
	9.04 NON-DESTRUCTIVE TESTING AND INSPECTIONS			
	9.05 ROOF TESTING AND CONSULTING			



AVIATION FACILITIES DIVISION

CAT. NO.	SERVICE DESCRIPTION*	PRIME CONSULTANT	SUB-CONSULTANT	PERCENT OF TOTAL CONSULTANT FEE
	9.06 MATERIALS TESTING/CONSULTING/TRAINING			
	INDUSTRIAL HYGIENE:			
	ASBESTOS			
	AMBIENT AIR			
	BIO-HAZARDOUS			
	OSHA			
10.00	ENVIRONMENTAL ENGINEERING			
	10.01 STORMWATER DRAINAGE DESIGN ENGINEERING SERVICES			
	10.02 GEOLOGY SERVICES			
	10.03 BIOLOGY SERVICES			
	10.04 CHEMISTRY SERVICES			
	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 WELL FIELD, GROUNDWATER, AND SURFACE WATER PROTECTION AND MANAGEMENT			
	10.10 COASTAL PROCESSES AND OCEAN ENGINEERING			
11.00	GENERAL STRUCTURAL ENGINEERING	✓		1%
12.00	GENERAL MECHANICAL ENGINEERING	✓		1%
13.00	GENERAL ELECTRICAL ENGINEERING	✓		1.5%
14.00	ARCHITECTURE			
15.00	SURVEYING AND MAPPING			
	15.01 LAND SURVEYING			
	15.02 AERIAL PHOTOGRAMMETRY			
16.00	GENERAL CIVIL ENGINEERING	✓		5%
17.00	ENGINEERING CONSTRUCTION MANAGEMENT	✓		25%
18.00	ARCHITECTURAL CONSTRUCTION MANAGEMENT			



AVIATION FACILITIES DIVISION

CAT. NO.	SERVICE DESCRIPTION **	PRIME CONSULTANT	SUB-CONSULTANT	PERCENT OF TOTAL CONSULTANT FEE
19.00	VALUE ANALYSIS AND LIFE-CYCLE COSTING			
	19.01 TRANSPORTATION PLANNING			
	19.02 MASS TRANSIT SYSTEMS			
	19.03 HIGHWAY SYSTEMS			
	19.04 AVIATION SYSTEMS			
	19.05 PORT AND WATERWAY SYSTEMS			
	19.06 WATER AND SANITARY SYSTEMS			
	19.07 SOLID WASTE COLLECTION AND DISPOSAL SYSTEMS			
	19.08 TELECOMMUNICATION SYSTEMS			
	19.09 SOILS, FOUNDATIONS, AND MATERIALS TESTING			
	19.10 ENVIRONMENTAL ENGINEERING			
	19.11 GENERAL STRUCTURAL ENGINEERING			
	19.12 GENERAL MECHANICAL ENGINEERING			
	19.13 GENERAL ELECTRICAL ENGINEERING			
	19.14 ARCHITECTURE			
	19.15 GENERAL CIVIL ENGINEERING			
	19.16 LANDSCAPE ARCHITECTURE			
20.00	LANDSCAPE ARCHITECTURE			
21.00	LAND USE PLANNING			
22.00	ADA TITLE II CONSULTANT			
23.00	AVIATION ACOUSTICAL AND LAND USE COMPATIBILITY PLANNING			
24.00	BUILDING PRODUCT EVALUATION SERVICES			
25.00	AVIATION PLANNING CONSULTANT SERVICES			
26.00	CLAIMS ANALYSIS SERVICES			

\*\*Detailed descriptions of certification categories may be obtained from MDAD Contracts Administration.