


Date: March 12, 2024
To: Gary T. Hartfield, Division Director
Small Business Development Division
Internal Services Department

From: 
Alfredo E. Munoz, P.E
Chief, Capital Improvements Division
Department of Transportation and Public Works

Subject: Notice of Construction Project:
Miscellaneous Construction Contracts: MCC 7360 Plan CICC 7360-0/08 - Request for Price Quotation (RPQ) No. TP-0000021555. Traction Power Switchgear Replacement Project Phase IV

RECOMMENDATION

The Department's Capital Improvements staff completed the review of the subject RPQ in accordance with the applicable provisions of Implementing Order 3-22 and does not recommend Small Business Enterprise - Construction (SBE-CONST), and/or, Good & Services (SBE-GS) measures. A Community Workforce Program (CWP) goal, if applicable, is to be determined by Small Business Development.

Scope of Work:	Single Trade – Electrical, Construction.
Engineer Project Base Cost Estimate	
Including Contingency:	\$4,326,300.00
SBE-CONST Measure:	Not Applicable
SBE-GS Measure:	Not Applicable
CWP:	As Applicable

SCOPE OF WORK

This project is for the upgrade and replacement of the existing Department of Transportation and Public Works' (DTPW) Traction Power Substations Direct Circuit (DC) Switchgear, Annunciator, Supervisory Control Interface Terminal Cabinet (SCITC) panels and the upgrade of the Supervisory Control and Data Acquisition (SCADA) System at Three (3) Traction Power Substations and one (1) Gap tie Substation, listed as:

- 1) Gap Tie 1 (GT1)
- 2) Vizcaya (VIZ)
- 3) Coconut Grove (CGV)
- 4) Douglas Road (DRD)

All hardware and software necessary to convert to fiber as well as programming services is to be supplied by the Contractor. The latest PLC software is to be installed on the PLCs installed under this contract.

Should you require any additional information, please call me at (305) 375-4891, or Marco Movilla at (305) 375-3267.

Attachments,

AM/mm

cc:	Laurie Johnson, SBD	Marco Movilla, DTPW
	Orlando Martinez, DTPW	Katherine Fernandez, DTPW
	Eric Perez, SBD	Trecia Demby, DTPW
	Caesar Suarez, SBD	Scott Nicoll, DTPW
	Dalton Rivera, DTPW	Project File
	Clerk of the Board	

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
CONTRACT / PROJECT MEASURE ANALYSIS AND RECOMMENDATION

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



From: Alfredo E. Munoz, P.E
Chief, Capital Improvements Division
Department of Transportation and Public Works (DTPW)

Date: March 12, 2024

CONTRACT INFORMATION

Contract Type: MCC 7360 Plan: Single Trade

**Request for Price
Quotation (RPQ) No:** TP-0000021555

RPQ Title: Traction Power Switchgear Replacement Project Phase IV

Re-submittal: No

**Prevailing Wages Rate
Required:** Building Construction

**Estimated Base Project Cost
Including Contingency:** \$4,326,300.00

Funding Source: People's Transportation Plan (PTP) Bond

Bonding Requirements: Bid Bond– 5% of base bid amount.
Performance Bond- 100% of Contract Award Amount

Method of Award: Line Item

PROJECT INFORMATION

SCOPE OF WORK:

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RPQ No. TP-0000021555
RPQ Title: Traction Power Switchgear Replacement Project Phase IV

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LICENSE REQUIREMENTS:

A. All Contractors must hold a current valid Certificate of Competency for Electrical Contractor, as required by the Florida Building Code, for the types of Work covered by the Contract at the time of RPQ submission and maintain same throughout the duration of the project. The certificate(s) is to be issued by:

1. The State of Florida Construction Industry Licensing Board, pursuant to the provisions of Section 489.115 of the Florida Statute and registered with the Miami-Dade County, Building Department **or**,
2. The Dade County Construction Trades Qualifying Board, pursuant to the provisions of Section 10-3(a) of the County Code. Holders of Miami-Dade County Certificates of Competency must also hold Certificates of Registration issued by the State of Florida Construction Licensing Board, pursuant to the provisions of Section 489.115 or Section 489.117 of the Florida Statutes.

B. Proof of such Certificate(s) must be submitted at the time of initial response and maintained current throughout the contract period. The County may request proof of continued certification at any time during the contract period. Failure to provide such proof within five (5) working days from notification by the County shall result in the removal from the contract and the rejection of any current or future RPQ bid submissions.

Subsequent to the commencement of the Contract, Miami-Dade County may require specific qualifications based on a Project's scope of work. Such requirements will be included within the Request for Price Quotation.

EXPERIENCE REQUIREMENTS:

This project requires specialized equipment and license requirements to include a State of Florida Electrical Contractor. The project is considered a closed and interconnected system, which requires that the work be completed by the same Contractor.

The Contractor must be able to pull in a Master Permit. In addition, the Contractor is required to have a minimum of three years of experience with AC and DC Traction Power Systems in a Transit environment including Power Cables and Fiber Optic installation, termination and testing, equipment installation, testing and commissioning for revenue service; have previously worked on Traction Power SCADA systems; configured Siemens PLC CPUs and Siemens Input/output modules; verified PROFIBUS communications between PLC and Sitras Pro DC Protective Relays; programmed Siemens Scalance Network Switches; programmed Siemens ladder logic, software blocks and hardware tables; and worked with a Test Plan to verify all commands and indications at Central Control.

Additional Qualifications:

- 1) Electrical Contractor (Primary)
- 2) A minimum of 3 years of experience with AC and DC Traction Power Systems in a Transit environment including cabling, installation, testing and commissioning for revenue service.
- 3) Previously worked on 700 VDC Switchgear.
- 4) Previously worked on Traction Power SCADA systems.
- 5) Configured Siemens PLC CPUs and Siemens Input/output modules.
- 6) Verify PROFIBUS communications between PLC and Sitras Pro DC Protective Relays.
- 7) Programmed Siemens Scalance Network Switches.
- 8) Programmed Siemens ladder logic, software blocks and hardware tables.
- 9) Work with a Test Plan to verify all commands and indications at Central Control.
- 10) Fiber optics installation, termination, and testing.

RECOMMENDATION

Areas Recommended for SBE-construction Participation: Electrical.

Contract Measure Recommendation:

- No Measure
- Set-Aside:
 - Level I
 - Level II
 - Level III
- Trade Set-Aside(s):
- Aggregate Set-Aside:
- SBE-CONST Goal:
- SBE-GS Goal:
- CWP: As Applicable.
- DBE Subcontractor Goal

Reason for Recommendation:

This is a Single trade project. Due to its complexity and the very specialized scope of work, the Department of Transportation & Public Works (DTPW) would like to increase the participation of qualified Electrical Contractors with the experience required. DTPW has advertised in the past similar projects with very little participation, therefore, DTPW does recommend advertising this project under the MCC 7360 program.

Similar Projects previously submitted for Project Review and Analysis Process:

RPQ No. 412034. Traction Power Switchgear Replacement Project Phase III Update

SBE-CONST Goal / Project No. / Amount achieved: No Goal.