

State of Florida
Department of Transportation



TECHNICAL SPECIAL PROVISIONS
REMOVAL AND INSTALLATION OF GENERATOR IN THE AUDITORIUM
BUILDING #4611
FINANCIAL PROJECT NO.: 451628-1-52-01
FDOT FACILITY: DISTRICT FOUR BROWARD OPERATIONS
CONTRACT NO.: F4013

PROJECT DESCRIPTION: WORK INCLUDES THE REMOVAL AND INSTALLATION OF ONE (1) GROUND LEVEL **NEW GENERATOR** AT BROWARD OPERATIONS, 5548 NW 9TH AVE, FORT LAUDERDALE, FL 33309.

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EXHIBIT “A”
SCOPE OF WORK
THE FLORIDA DEPARTMENT OF TRANSPORTATION
DISTRICT FOUR BROWARD OPERATIONS
AUDITORIUM BLDG. No. 4611 GENERATOR PROJECT

1.0 Purpose:

1.1 The Florida Department of Transportation (FDOT) District Four, hereafter referred to as the “Department,” is seeking the services of a licensed, qualified, and insured Certified Electrical and/or General Contractor. The selected contractor will be responsible for providing all necessary equipment, materials, supplies, labor, and hardware for the removal and installation of one (1) 125 Kilowatts (KW) Diesel Generator or a comparable 130KW Diesel Generator. This project will take place at the Broward Operations Center located at 5548 NW 9th Ave, Fort Lauderdale, FL 33309. All work must comply with applicable state and local codes, regulations, and safety standards.

1.2 This turnkey project shall provide everything that is (or may be) required to safely and properly perform the services to the satisfaction of the Departments Project Manager or Designee, including but not limited to:

1.2.1 Installation of a new 125KW, or a comparable 130KW Diesel Generator Unit.

1.2.2 The Contractor awarded this turnkey project through the Invitation to Bid (I.T.B.) shall provide to the Department with a complete, operational, and properly functioning standby power system that has been tested as required during and after installation, proven and documented to meet both the manufacturer’s and the Department’s specifications.

1.2.3 The completed system will consist of a completely integrated emergency diesel generator system to provide an alternate source of electrical power to Broward Operations Auditorium Building# 4611 electrical loads in the event of utility power outages such as weather related, accidental, or commanded outages. The generator set and related component accessories shall be sized to accommodate the entire building’s electrical loading.

1.2.4 This project includes, but is not limited to: The preparation, provision and handling of all required permits, inspections, signed / sealed engineering drawings / plans, as-built drawings / plans, supervision, labor, materials, ancillary components, fuel tank with a comparable capacity to existing generator, fuel, concrete mounting pads, service entrance rated automatic transfer switch, and protected / vandal resistant housing structures, wiring, installation, start up, commissioning , testing etc., any and all related systems and required building structures, providing and installation of outdoor rated enclosures, while providing safe full operator / technician access to the equipment as needed for servicing and operations, all freight and freight expediting, supplies, equipment, mobilization, set up, all testing, construction site safety, maintenance, cleanup, site restoration / any repairs to damages resulting from this project, and anything else required to complete the project to the

Departments satisfaction at Broward Operations Center, 5548 NW 9th Ave Fort Lauderdale, FL 33309.

2.0 Definitions:

2.1 **F.D.O.T.:** The Florida Department of Transportation, hereafter known as the Department.

2.2 **Contractor:** The firm retained by the Department to provide all equipment, labor, installation, and services as described within this Scope of Work.

2.3 **Contract Manager:** The Contractor's assigned representative to coordinate all activities associated with this Scope of Work.

2.4 **Project Manager:** The Departments representative responsible for administering the Contractors performance in accordance with the contract terms and conditions and serving as liaison between the Department and Contractor.

2.5 **Contractor – Normal Working Hours:** Unless otherwise specifically authorized in advance by the Department in writing, all contractor services shall occur as indicated below:

2.5.1 The project work shall not interfere with the Department's normal operations. Exceptions to this will require pre-approval by the Department Project Manager or designee. Proposed Contractor work schedules (and any subsequent proposed schedule change requests) by the Contractor shall be submitted in advance for pre-approval by the Department Project Manager or designee.

2.5.2 For this Scope of Work, the Department's current normal working hours are from 8:00 AM to 4:30 PM, Monday through Friday, except for nine State Holidays, declared state of emergency and days of state or national mourning etc.

2.5.3 While it is expected that the majority of this work will occur during regular day hours, night and/or weekend / Holiday work hours may be required to perform and/or complete certain portions of the project.

2.6 **Sub-Contractor(s):** Any sub-contractors that are, or may be utilized, by the Contractor during the course of this contract, which includes any modifications / changes, renewals and/or extensions thereto. Unless otherwise previously agreed to in writing by the Department, all Sub-Contractor(s) shall be required to meet the requirements of EXHIBIT "A", SCOPE OF WORK, MINIMUM QUALIFICATIONS and any other contract documentation.

2.7 **Invitation to Bid shall refer to:** THE FLORIDA DEPARTMENT OF TRANSPORTATION, DISTRICT FOUR BROWARD OPERATIONS GENERATOR INSTALLATION PROJECT",

“Invitation to Bid process” itself, and to the derived document package, and shall include all other related contract documents, exhibits, attachments etc.

2.8 **“Exhibit “A” or Exh. “A” shall refer to:** This document, titled “EXHIBIT “A”, SCOPE OF WORK, THE FLORIDA DEPARTMENT OF TRANSPORTATION, DISTRICT FOUR BROWARD OPERATIONS GENERATOR INSTALLATION PROJECT” in its entirety, and also to any attachments.

3.0 Project Approach:

Unless otherwise specifically approved in writing by the Department, the awarded Contractor will be responsible for the following:

3.1 ALL engineering, permitting and fees / fines etc., ordering / handling / storage / transportation / material and equipment freight expedition and delivery, receiving of materials etc., / demolition and debris removal handling, cleaning, proper transportation, and disposal thereof / set up and layout, installation / cutting / setting / replacement of all materials / final project clean up to the satisfaction of the Department.

3.2 Working harmoniously with the Department and any other contractors that may be involved with this project.

3.3 Contractor shall utilize, and maintain odor, noise, material storage, dust, and debris control methods in a manner acceptable to, and in compliance with the Department’s safety and security procedures.

3.4 The specifications, materials, and installation method should adhere to all applicable Codes, Standards, and project documents.

4.0 Contractors Minimum Qualifications:

4.1 Certification / Registration.

4.1.1 The Contractor shall hold (and maintain) a valid and current license as an Electrical and/or General Contractor in accordance with the laws of the State of Florida and any other authorities having jurisdiction as appropriate and required for this project, authorizing the Contractor to perform the specified work. Must have certification, and registrations, to inspect, install, service and warranty all proposed system equipment.

4.2 Have been actively involved in providing Commercial generator installation and related services for a minimum of 3 continuous years will be considered for this project. The Contractor shall adhere to all Federal, State, Local Codes and Generator industry standards.

4.2.1 The Contractor shall only use qualified, certified, and experienced installing technicians for the same type of equipment, systems, and installation as being requested for this project.

4.2.2 Installation technicians shall be factory trained on all proposed equipment and installation methods with a minimum of three (3) years' experience in the installation of all proposed equipment.

4.3 **Note:** Whenever a conflict arises in codes and/or standards the Contractor shall apply the most stringent code and/or standard as applicable to the type of systems application/installation. Whenever such a conflict exists the Contractor shall immediately notify the Department in writing of the conflict and the contractor's proposed resolution prior to finalizing any decisions.

4.4 Submittals to be Included with Bid:

4.4.1 Contractor References: Contractor must submit a list of three (3) projects that have been completed and operational for the last three (3) years. For each facility above, project's description, location, date of installation and Owner's representative contact name and telephone number. Please use the FDOT Experience Form provided in this advertisement.

4.4.2 The Contractor must provide current copies of all relevant Licenses and Certifications.

4.4.4 Generator shall meet or exceed existing generator specifications including KW.

4.4.5 Failure to fully comply with the Bid Submittal requirements detailed above may be subjected for Bid disqualifications.

5.0 Site Conditions:

5.1 It shall be and remain the Proposer's responsibility to properly and complete field verification of the full entire scope of work, all existing / anticipated site conditions, all required additional equipment and efforts necessary to provide all services as required herein. This includes but not limited to the determination of an accurate site layout, all actual site conditions, the full extent of all work to be performed, and the conditions surrounding the performance, thereof.

5.2 The failure or neglect of the Contractor to familiarize themselves with this project, the existing equipment, operating systems, hardware / software / firmware etc., wiring, infrastructure and operating conditions shall in no way relieve the Contractor from any obligations with respect to completing all work in a safe, proper and timely manner as outlined within this Scope of Work.

5.2.1 **NOTE:** There will be certain additional information provided only to those properly qualified contractors attending the mandatory pre-bid / site review meeting.

6.0 Generator Specifications:

6.1 The Contractor shall provide all the required services, including, but not limited, to the following:

6.1.1 All electrical work to disconnect and re-installation of all conduits, electrical, control wiring and outdoor HV transformer.

6.1.2 Electrical feed and Service entrance.

6.1.3 Provide crane and labor services for hoisting and rigging.

6.1.4 Legal and proper disposal of the old equipment is incidental to the work performed.

6.1.5 The Contractor shall set up and tie-in the new remote annunciator unit. This includes all application engineering, set up, installation and programming. If required by the Authority Having Jurisdiction (AHJ) by the County/City, set-up and tie-in of off-site generator trouble fault monitoring.

6.1.6 All necessary power supplies as required by the suggested manufacturing equipment's specifications.

6.1.7 Integral Vibration Isolation - Robust skid base supports the engine, alternator, and radiator on isolators, minimizing transmitted vibration. E-Coat Finish - Dual electro-deposition paint system provides high resistance to scratching, corrosion, and fading. Housings – Provide a weather-protective housings. Fuel Tanks – Single or Dual wall sub-base fuel tanks with a minimum capacity of 125 Gal.

6.1.8 Certifications - Generator sets are designed, manufactured, tested, and certified to relevant UL, NFPA, ISO, IEC, and CSA standards.

6.1.9 Provide all necessary protection to prevent damage around the working area including but not limited to parking lot area etc.

6.1.10 Provide on-site Temporary Generator for the entire building in the event of an unforeseen or planned power outage during normal working hours.

7.0 System Warranties:

7.1 Upon project completion the Contractor shall provide, to the Department, the Project Close out documentation indicating and certifying, in writing, all optional items, components, standard features are all included, properly installed and in place and fully operational, programming of system and components have been properly installed according to the manufacturer's specifications.

7.2 The Contractor shall provide a full five (5) years/2000 hours warranty to include all parts and provide a minimum of one (1) year labor warranty effective from the date of final Department acceptance of the Generator Unit, whichever comes first.

7.3 The warranty shall include service response for all service calls by phone and on-site service provided by Technicians with full experience servicing these specific models of equipment. A service technician shall return all service calls within two (2) hours and four (4) hour response on-site as needed to ensure the unit is functional.

7.4 All required labor, parts and or repairs of defective or damaged components shall be repaired or replaced with genuine OEM (Original Equipment Manufacturer) parts of the same make and model as necessary to ensure a fully functional and operating Generator unit at no additional cost, except in the case of an act of nature.

8.0 System Commissioning and Staff Training:

8.1 All commissioning of equipment to be conducted by a product factory trained Technician.

8.1.1 At system start-up, the Contractor shall provide a factory trained Technician to perform system checkout of all components, input required data and place the system in operation.

8.1.2 The Contractor shall also be responsible for checking subsystem functionality and verifying proper operation of all hardware and software.

8.1.3 Testing shall be witnessed and monitored for acceptance by a Department representative as part of the commissioning operations.

8.2 The Contractor shall provide a minimum of four (4) hours of training on the equipment operations for the FDOT Staff. Training scheduling shall be coordinated with and approved by the FDOT Project Manager prior to the training.

8.2.1 Two (2) complete sets of maintenance and parts manuals shall be delivered to the Department prior to training and final project acceptance.

9.0 Working Hours/Schedule:

9.1 Unless otherwise approved in advance and in writing by the Department, all work involving a complete system shutdown shall be performed after normal working hours starting at Friday 5:00 P.M to Monday 6:00 A.M. after the weekend.

9.1.1 If the Contractor chooses to perform the work during normal working hours, an alternate source of power system approved by the Department Project Manager shall be in place to avoid workplace downtime.

9.2 Upon awarding of this contract the Contractor shall provide to the Department's Project Manager a project work schedule which shall include the following information:

9.2.1 Provide a complete list of all proposed employees who are expected to work on this project along with their work experience and other related qualifications and project responsibility.

9.2.2 All work schedules shall include project start and end dates and identify all tasks and time frames, assignments, and personnel responsible for carrying out all work.

10.0 Safety/Work Area Clean up:

10.1 Staging area and parking shall not create any safety hazards / issues or impede automobile traffic to/from and/or around the facility.

10.2 The contractor shall be responsible for all repairs and/or replacement of damaged walls, etc. that are a result of this project, and shall carefully inspect and clean the entire workspace to ensure that debris is not left.

10.3 All new wall or floor penetrations required will be properly repaired and sealed, including the replacement of any existing sealant removed from walls, floor penetrations as necessary to run new pipes and wire.

10.4 All exposed wiring within the cabinets, consoles, and terminals shall be formed neatly with wires grouped in bundles using non-metallic, flame-resistant wiring cleats or wire ties.

10.5 The Contractor and assigned workers to this project shall only be permitted to work in areas identified as work areas, anyone outside of these areas shall be asked to leave the property, and this shall be strictly enforced throughout the term of this contract.

10.6 The Contractor shall immediately notify the Department's Project Manager, of any problems along with possible solutions and any increase to the project cost. Only upon written approval by

the Department's Project Manager shall any changes be made to the scope of work, equipment materials used and installation of same.

11.0 Loss and Damages:

11.1 The Contractor shall notify the Department's Project Manager at the time of any incident, accident or damage to persons, vehicles, or property, incurred prior to or during the Contractor performing services.

11.2 The Contractor shall provide a written narrative report describing what, when, where and how any of the above occurred, and what actions were taken immediately afterwards, a copy of this report shall be given to the Departments Project Manager, the Department shall proceed with all appropriate actions with regards to insurance & procedures.

11.3 The Contractor shall be responsible for all repairs or replacement of any damaged areas, infrastructure, structures, systems and / or any other items damaged in any manner by the Contractor, their employees and / or any other sub-contractors and / or other agents that it causes to be utilized to perform any portion(s) of this Contract. All repairs or replacements shall be accomplished utilizing qualified craftsmen with experience within the trade(s) necessary to complete the type of work required. All repairs shall be subject to the Departments inspection and approval.

11.4 The Contractor shall be responsible for the security of their tools and materials used to complete this project. The Contractor shall bear sole responsibility as to the result of any accidents involving State- or privately-owned property including but not limited to all office equipment and structure of the facility while performing work.

11.5 The Department shall not be held responsible for any equipment or materials left on site by the Contractor, to perform services as described within the Scope of Work. The Contractor shall replace and/or repair, as required by the Department, any item(s), damaged, or destroyed while providing services as a result of an accident, neglect or willfulness act. The Department shall make the determination whether an item is repairable or must be replaced. All repairs shall be approved by the Department's Project Manager. The Department reserves the right to reject any proposed contractor that the Contractor recommends performing repairs or replacements.

12.0 Department Responsibilities:

The Department shall provide to the Contractor full access to the project site as well as other areas that are necessary for the Contractor to successfully perform all services as required by the terms and conditions of this contract. The Department shall provide any relevant information related to this project, based upon availability.