



**Request for Proposal  
Contracting of Professional Services  
February 12, 2024  
RFP-SP-2023-2024-013-DS**

Description	<b>Load Study and Design Services Generators for the Selected Diagnostic and Treatment Centers, (CDBG-MIT and FEMA Mitigation Project)</b>
Deadline	<b>March 13, 2024, until 12:00 PM</b>

In compliance with the principles of sound administration and transparency in the process of selecting and awarding Professional Services contracts, the Department of Health requests Load Study and Design Services. Generators for the Selected Diagnostic and Treatment Centers (CDBG-MIT and FEMA Mitigation Project) Any proposal submitted must meet at least the following parameters:

**PROJECT OVERVIEW**

The PRDOHe is seeking to contract with a qualified individual, firm/organization to provide Load Studies and Design Services for the installation of seven generators with integrated fuel tanks for seven Diagnostic and Treatment Centers (CDTs) located in the Municipalities of Dorado, Vega Alta, Vega Baja, Lajas, and Rio Grande. Work will be divided in 3 Phases: Phase 1 – Permitting, Phase 2 – Load Study and Design, Phase 3 – Build Supervision.

The current generator specifications with integrated fuel tanks vary in size:

- Adjuntas CDT: 500 kW generator with a 3,000-gallon fuel tank
- Dorado CDT: 500 kW generator with a 3,000-gallon fuel tank
- Maricao CDT: 75 kW generator with a 500-gallon fuel tank
- Vega Alta CDT: 750 kW generator with a 4,000-gallon fuel tank
- Vega Baja CDT: 750 kW generator with a 4,000-gallon fuel tank
- Lajas CDT: 500 kW generator with a 2,000-gallon fuel tank
- Rio Grande CDT: 500 kW generator with a 2,000-gallon fuel tank

This RFP seeks a qualified individual, firm/organization to conduct a Load Study in each CDT and, based on the study results, provide an Architectural and Engineering (A&E) Design for the installation of the appropriate-sized generators within the specifications, needs, and requirements of each facility. The Selected Proponent will also be responsible for acquiring the necessary permits and be available during the Build phase for supervision services.

**SCOPE OF WORK**

**Deliverables**

The Proponent must demonstrate their ability to complete the following deliverables:

1. Load Studies for each of the seven (7) Selected CDTs.
  - a. Formal and detailed report including summary of analytical data and attachments presenting the load study results. The load study measurements must be taken directly at the load site of each distribution substation.



- b. Data must be shown in tabulated form and in time-plot charts for interpretation and analysis purposes.
      - c. The load parameters are as follows:
        - i. KVA – Kilovolt-amperes (Apparent Power)
        - ii. KW – Kilowatts (Real Power)
        - iii. KVAR – Kilovars (Reactive Power)
        - iv. P.F. – Power Factor
        - v. Irms – Amps per phase
        - vi. Vrms – Voltage per phase
        - vii. KWHR – Energy Consumption (Kilowatt hour)
      - d. All documents must be signed and sealed by a Licensed Engineer (PE)
2. Based on the Load Study results, the Proponent must submit project design and specifications (75 percent design level) for the generator installation in each facility.
  - a. The Selected Proponent must provide the final design drawings and specifications, signed, and sealed by a professional engineer (PE), or a certified design professional, to validate the facility load consumption, generator size, capacity, and functionality.
  - b. All components of the project should be designed to comply with the 2018 PRBC, ASCE 7-16, and all applicable local codes and standards.
  - c. If applicable, designs should include a civil and structural design, as well as a mechanical and electrical design.
  - d. The designs must include an elevation certificate for the CDT Maricao and CDT Vega Alta project sites.
    - i. All lowest floor elevations for new or substantially improved structures/buildings (residential and non-residential) must be recorded on an Elevation Certificate and provided with the proposal when it is submitted to the Planning Board for review.
    - ii. The Elevation Certificate must be completed and certified by someone who is licensed to take vertical measurements in Puerto Rico and all elevations must be referenced to the PRVD 02/MSL datum. [44 CFR 60.3(b)(5)(i); Regulation 13; Elevation Certificate instructions].
3. Permitting. The Selected Proponent will be responsible for acquiring any and all permits required for Load Studies and Designs.
4. Build Phase Supervision Consultation. The Proponent must include in their Proposal a retainer rate and availability commitment certification for supervision consultation services during the subsequent Build Phase of this project.



## Design Requirements

### Codes and Standards

All design and installation shall be in accordance with all applicable federal and local codes, including but not limited to the following regulatory codes and standards:

Code	Title
AISC	Manual of Steel Construction, 13 <sup>th</sup> Edition
IBC	International Building Code, 2018 Edition
NFPA 37	Standards for the Installation and Use of Stationary Combustion Engines and Gas Turbines
NFPA 70	National Electrical Code, 2020 Edition
NFPA 72	National Fire Alarm Code, 2019 Edition
NFPA 110	Standards for Emergency and Standby Power Systems
AEE	Manual de Patrones de Distribución Soterrada
AEE	Reglamento Complementario al Código Eléctrico Nacional

### Generator Design Requirements

1. The standby generator system shall be designed to automatically provide backup power to the CDT facility utilizing one or more permanently installed generators in the event of an interruption in the utility power supply.
2. Startup of generator(s), transfer/switching from utility power to generator power and transfer/switching back to the utility supply upon restoration of power (after a programmed time delay) shall be completely automatic, with no manual operations required.
3. Contractor shall evaluate noise level requirements and specify/install sound enclosures, etc. for new equipment as required.
4. Contractor shall evaluate emissions requirements and specify new equipment to meet all applicable standards and regulations. Contractor shall determine whether air permitting is required and obtain all necessary permits.
5. Contractor shall develop a detailed design package for the new standby generator system. All drawings shall be sealed by a professional engineer licensed in the Commonwealth of Puerto Rico. Drawings and documentation developed as a part of the detailed design package shall include:
  - a. Single-Line Drawings
  - b. Load Calculations for Generator Sizing
  - c. Panel Schedules
  - d. Plan and Section Views of new equipment locations.



- e. Conduit routing plans
- f. Grounding plans
- g. Civil and Structural drawings
- h. Area Classification drawings
- i. Electrical and Controls drawings, including wiring schematics for all new systems and connections to existing systems.
- j. Provide complete hardcopies and electronics files of project final drawings.
- k. All related engineering calculations, QA/QC, and manufactured equipment documentation
- l. Any and all other items required by referenced codes, standards and ordinances.

### **Civil Design Requirements**

1. Contractor shall be responsible for design of all equipment and device supports and foundations required for a complete installation of the new standby generator system.
2. All drawings shall be sealed by a professional engineer licensed in the Commonwealth of Puerto Rico.
3. Contractor shall provide an erosion and sedimentation plan detailing the areas to be disturbed and the measures to be employed for maintaining control of the disturbed areas during adverse weather conditions.
4. Contractor shall be responsible for all required surveys and geotechnical analysis associated with new foundations installation.
5. Contractor shall design fuel spill control and containment measures associated with the new standby generator system including, but not limited to, structures, diversion trenches, berms and spillways. Fuel storage and spill containment systems shall be designed and installed in accordance with all EPA, Federal, and local regulations.
6. Contractor shall complete all foundation designs and systems necessary for the new equipment, structures, and other items.

### **Facility-Specific Requirements**

1. CDT Maricao
  - a. Proposer should consider water surface elevation data to calculate the design flood elevation for site CDT Maricao located inside the SFHA A Zone, in accordance with the Critical Facilities/Essential Community Services requirements and recommendation established in ASCE 24-14.
2. CDT Vega Alta
  - a. Proposer should consider water surface elevation data to calculate the design flood elevation for site CDT Vega Alta located within an X=0.2% annual chance of



flooding zone, in accordance with the Critical Facilities/Essential Community Services requirements and recommendation established in ASCE 24-14. 2).

### **Mechanical Design Requirements**

1. Contractor shall be responsible for design of all mechanical systems required for a complete installation of the new standby generator system.
2. All drawings shall be sealed by a professional engineer licensed in the Commonwealth of Puerto Rico.
3. Contractor shall develop plan and section views of new equipment to be installed.
4. Contractor shall develop fabrication drawings for any new piping.
5. Contractor shall develop bill of materials for all new piping and equipment associated with the new standby generator system installation.
6. Permanent fencing or other means shall be designed to limit access to generator equipment to authorized personnel only.
7. Any required pipe supports shall be designed to accommodate the loads induced by the piping, while allowing free movement, where necessary, and minimizing vibration.
8. Insulation shall be installed for personnel protection and/or thermal efficiency, as required. Insulation shall be of mineral wool or similar materials with an external jacket appropriate for the application.
9. New mechanical systems shall be designed and installed to allow for ease of access to and egress from adjacent work areas.
10. All piping service vents and drains shall be plugged/capped/blinded and shall protrude from insulated piping sections for access.

### **Other Responsibilities**

Proponent is responsible for acquiring all certificates and permits required for the activities and deliverables included in this RFP. All related costs must be included in the Proposal and Cost Estimate in order to be reimbursed.

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To clarify any doubts or questions about this, you can send an email to: [subastas@salud.pr.gov](mailto:subastas@salud.pr.gov) no later than **February 28, 2024, until 4:00 PM**. The Department will have until **March 6, 2024, until 4:00 PM** to answer any doubts or questions. Compulsory Virtual Discussion Meeting on **February 21, 2024, 10:30 a.m.**

**The virtual meeting via Teams is compulsory. Its purpose is to briefly explain the project's objectives. Interested proposers for this RFP must register and send an email, [subastas@salud.pr.gov](mailto:subastas@salud.pr.gov) where they will subsequently receive an invitation to this virtual meeting. Proposers who do not participate in this virtual meeting will be disqualified, and if a proposal is submitted, it will not be evaluated.**



DEPARTAMENTO DE SALUD  
OFICINA DE SUBASTAS

The PRDOHe, through its Secretary or through the personnel designated by him, will review the applications received and determine if any of them is capable of signing a professional services contract with the concerned agency of the Government of Puerto Rico.

Any proposal will be accompanied by the Certificate of Eligibility of the Sole Register of Bidders (RUL/RUP) issued by the General Services Administration of the Government of Puerto Rico (ASG), through which it accredits its inclusion in the Single Registry of Professional Service Providers, as provided in Law No. 73-2019, as amended, known as the "General Services Administration Act for the Centralization of Government Purchases of Puerto Rico of 2019".

The Proponent must submit the proposal accompanied by all the required documentation at the Auction Office located in Building H, Second floor, Office 223. **You must deliver one (1) original, two (2) hard copies and one (1) digital copy on a USB (PDF format), on or before March 13, 2024, until 12:00 PM.**

The selection of the potential contractor will be notified by email.

By submitting a solution pursuant to this notice, the proposer acknowledges that:

1. All information submitted is true and verification may be requested.
2. The proposal containing any false or incorrect information shall be immediately discarded.
3. At its sole discretion, the PRDOHe or its designee may communicate with individuals and / or companies that submit solutions to clarify any doubt or coordinate an interview and presentation in person or virtually, without requiring the presence of the other proposers.
4. The purpose of this notice is to disseminate that the Government of Puerto Rico has a need for service that will potentially result in the contracting of professional services.
5. As a result of this process, no type of right is generated that would oblige the Government of Puerto Rico to sign a professional services contract.
6. It has the power to bind and comply with all parameters and requirements applicable to government contracting of professional services.
7. As part of the consideration of the request for proposal, the signing of a non-disclosure agreement may be required.



**Calendar and Information**

<b>Applicant Unit:</b>	Department of Health (PRDOHe)
<b>Contact Information:</b>	Denise Marrero Santana 787-765-2929, ext. 4475
<b>Application Number:</b>	<b>RFP-SP-2023-2024-013-DS</b>
<b>Application Name:</b>	Load Study and Design Services. Generators for the Selected Diagnostic and Treatment Centers, (CDBG-MIT and FEMA Mitigation Project)
<b>Service Category (Technology, Management Consulting, Etc.):</b>	Request for Professional Services
<b>Date of Publication of the Application:</b>	February 12, 2024
<b>Compulsory Virtual Discussion Meeting:</b>	February 21, 2024, 10:30 a.m.
<b>Deadline for submitting questions:</b>	February 28, 2024, until 4:00 PM
<b>Deadline to answer questions:</b>	March 6, 2024, until 4:00 PM
<b>Submit Proposal at the Auction Office:</b>	Department of Health Auction Office, Building H, Office 223, Second floor.
<b>Deadline for Submission of Proposals:</b>	March 13, 2024, until 12:00 PM
<b>Form Request and Related Documentation request it to:</b>	<a href="mailto:subastas@salud.pr.gov">subastas@salud.pr.gov</a>

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