



**GOVERNMENT OF THE COMMONWEALTH OF THE BAHAMAS
THE MINISTRY OF FINANCE
THE RECONSTRUCTION WITH RESILIENCE IN THE ENERGY SECTOR IN THE
BAHAMAS (RRESB) PROGRAM
INDIVIDUAL CONSULTANT**

ENERGY ELECTRICAL ENGINEER CONSULTANT POSITION AVAILABLE

This notice is placed on behalf of The Ministry of Finance (MoF) to provide background information regarding the objectives of the MoF to enable interested persons who meet the stated and other criteria to determine their eligibility and respond to this advertisement to offer their services under the requirements of the project. The Government of the Commonwealth of The Bahamas (GoBH) has received financing from the Inter-American Development Bank (IADB) under loan # BH-L1048 (the Program) to partially/totally fund the contract cost.

SUMMARY OF BACKGROUND INFORMATION

The PEU established within the MoF will be responsible for the overall execution of the Program Components. In general terms, the PEU will be responsible for carrying out all the operational and fiduciary, financial management and procurement obligations, including social and environmental safeguards. The PEU will be staffed with a team of technical and fiduciary staff who will conduct the Program coordination, administration, legal, communication, environmental, financial management and monitoring and controlling responsibilities, among others. Each component will be advanced by a technical team who will assist the Program Coordinator (PC), ensuring that activities are addressed effectively so as to achieve project goals within the prescribed timeframe. The GoB is seeking a consultant to assume overall responsibility for various activities and support services pertaining to an Energy Electrical Engineer Consultant (EEEC) who answers directly to the Program Coordinator.

DESCRIPTION OF ENGAGEMENT

The general objective of the consultancy is to provide Independent Supervision of the EEEEC Services of the Program as part of the PEU, and in accordance with the stipulations contained in the Loan Contract and the Program Operations Manual (POM). The Energy Electrical Engineer Consultant (EEEC) will provide supervision of all contracted energy and electrical, work to implement transmission and distribution (T&D), microgrid and solar photovoltaic (PV) projects to be developed by the Program. The EEEEC will also be responsible for developing the technical documents, safety manuals for the operation and maintenance of the microgrid and solar PV projects. The EEEEC will work in close coordination with the contractors for the supervision of the quality of the works and in the compliance with the designs. Also, the EEEEC will provide supervision of contractors engaged in energy electrical works, with operation and maintenance agreements, for the program as part of the PEU. The EEEEC will supervise various contractual works such as: The turn key delivery of approximately 1500kw grid connected rooftop solar systems, installation of microgrids, battery energy storage systems, transmission and distribution work and

a 20MW battery energy storage system, which will provide spinning reserve to the Bahamas Power and Light Company (BPL).

FUNCTIONS AND RESPONSIBILITIES

The responsibilities of the *Energy Electrical Engineer Consultant* include, among others:

- A. The general responsibility of the EEEEC is to supervise the overall planning and execution of technical processes and activities for the contracting of works and purchase of goods and services other than consulting, and consulting services, related to T&D, microgrid and solar PV initiatives, ensuring at all times the effective execution, high quality and transparency of the technical processes and activities as part of the Program execution, based on the joint actions of the PEU and the Government of The Bahamas (GoBH).
- B. The EEEEC will have a key and pivotal responsibility in supervising the design and implementation of the technical administration mechanisms and controls for the T&D, microgrid and solar PV projects, so as to ensure the proper compliance with Bank and GoBH policies and procedures and, in particular with the stipulations contained in the Project Operational Manual (POM) of the Program.
- C. The consultant must produce/review technical documents including Terms of Reference, Technical Specifications, Safety Manuals, and other reports as per the job function needed for the Program execution processes, as well as provide advice and solutions to the PEU and participating agencies of The Program and ensure efficiency, value for money, quality and, in particular to guarantee the quality assurance of The Program goods, works and consultancy services with respect to compliance with designs and regulations.

Main Activities of the Consultancy

The responsibilities of the *Energy Electrical Engineer Consultant* include, among others:

- Provide supervision and support of the technical implementation and coordination of the Program, especially those related to T&D, microgrid and solar PV projects in coordination with: (i) the Program Coordinator, Energy Electrical Engineer Consultant, Microgrid Electrical Engineer, Procurement Specialist and the Financial Specialist of the PEU; and (ii) the Ministry of Finance
 - Supervise and provide support for planning, coordinating, and management of the PEU's technical activities related to the T&D, microgrid and solar PV projects, including:-
 - a. Participation in field technical visits that will be required by the Program.
 - b. Working in close coordination with contractors for the supervision of quality of work, ensuring the compliance with designs and regulations.
 - c. Liaise with governmental agencies including Buildings Control and Ministry of Public Works regarding permitting, approval, and inspections stages for works projects.
 - d. Document the quality of implementation of all consultancy services/works activities carried out by the respective consultants/contractors and the PEU of any issues or concerns.
 - e. Determine/provide justification for the need for scope change that will positively impact time, cost or quality.

- f. Document any scope change justification (and corresponding impact on time, cost and quality) and submit to the PEU.
 - g. Providing guidance to; and or ensuring accurate compiling, and managing to completion of technical documents/files associated with works.
- Assisting in confirming information from the MoF on the compliance by contractors and vendors with contractual times, and the state and quality of the goods, services and works delivered.
- Contributing to the adequate technical administration of the contracts, while providing the necessary support to The Program Coordinator with respect to the monitoring and supervision of technical works done by the PEU and stakeholders (BPL, Grand Bahama Power Company -GBPC-, Utilities Regulation & Competition Authority -URCA-, contractors, etc.).
- Participating in the preparation and maintenance of the POM, focusing on the technical implementation of works and the preparation of technical documents, and ensuring alignment with the procurement policies and guidelines of the Bank.
- Preparing the periodic technical reports of The Program as established in the POM, and as part of the monthly, bi-annual, annual and ad hoc reports prepared for the Bank and the MoF, in addition to preparing technical reports regarding the execution of The Program.
- To perform other duties as determined by the PEU/PC.

EDUCATION SKILLS AND EXPERIENCE

- Minimum of a Master's degree and Bachelor's degree in Electrical/Mechanical Engineering, Renewable Energies or a related area.
- Certification in Renewable Energies, Project Management, Public Management or a related Field.
- A minimum of fifteen (15) years of post-graduate experience: project design and engineering, procurement and construct ("EPC") contract (s), providing technical updates, risk identification, contract structure, cost incentives, and liquid damages, involving T&D, and or solar PV projects.
- A minimum of fifteen (15) years of general professional experience, preferably in the Caribbean or Latin America region. A minimum of ten (10) years of experience in T&D, microgrids and/or solar PV projects.
- Proficiency in English (knowledge of Spanish is an asset).
- Experience in the preparation/supervision of feasibility studies or technical specifications of microgrids or solar PV projects.
- Experience in the supervision/monitoring of construction and installation of microgrids or solar PV projects.
- Knowledge of:-
 - o the energy industry in general and renewable energies.
 - o electrical energy economics and its application to planning, projects and operation of electric power systems.
 - o electricity distribution projects, including interconnection of power plants to the grid.
 - o battery energy storage systems in conjunction with solar photovoltaic installations.
 - o regulation of electric utilities and distributed generation.
- Good judgment and problem solving.
- Excellent communication (oral, written, presentation) and interpersonal skills.
- Professional and resourceful style and ability to work independently and in a team-oriented setting.

- Ability to take initiative and manage multiple tasks simultaneously.

SELECTION PROCESS

The individual for the consultancy will be selected in accordance with the Consultants' Qualifications Selection procedures set out in the Inter- American Development Bank: Policies for the selection and contracting of consultants financed by the Inter-American Bank (Document GN-2350-15). Note that the Government of the Commonwealth of The Bahamas has the authority to reject any and all proposals without an explanation. Procurement notices will be posted online at www.bahamas.gov.bs CVs must be delivered by e-mail by **5:00pm, Wednesday, March 17, 2021** to reconrenewableenergy@bahamas.gov.bs.