



## REQUEST FOR EXPRESSIONS OF INTEREST

### CONSULTANCY SERVICES

#### LIBERIA

#### Liberia Energy Efficiency and Access Project (LEEAP)

### ENGINEERING DESIGN OF DISTRIBUTION NETWORK AND PREPARATION OF BIDDING DOCUMENTS FOR T&D IN PAYNESVILLE, RIA CORRIDOR AND PLEEBO TO FISHTOWN

**Issue Date: February 16, 2017**

**Closing Date: March 2, 2017**

The Government of Liberia has received financing from the following sources: a) African Development Fund (ADF) loan amounting to UA 9.42 million, (b) a Transition Support Facility (TSF) loan of UA 4.20 million, (c) a Nigeria Trust Fund (NTF) loan of UA 7.06 million, (d) an European Union – Africa Infrastructure Trust Fund (EU-AITF) grant of Euro 10 million (equivalent to UA 8.05 million), and (e) a Global Environment Facility (GEF) grant of USD 2.64 million (equivalent to UA 1.86 million), to finance the **Liberia Energy Efficiency and Access Project (LEEAP)** and intends to apply part of the proceeds of the on-lending to eligible payments under the contract for **Consultancy Services for Engineering Design of Distribution Network and preparation of Bidding Documents for T&D in Paynesville, RIA Corridor and Pleebo to Fishtown.**

The objective of this assignment is assisting LEC to prepare technically and economically proficient electrical transmission and distribution network designs that maximize electricity access and to procure Contractors for their Supply and Installation. The activities to be undertaking under the assignment include:

#### **RIA Corridor**

- a. Review the existing preliminary design and prepare bidding documents for the supply and installation works for two 66/33/22kV Substations
- b. Review the existing preliminary designs and prepare bidding documents for the supply and installation works for about 46km of 66kV Sub-Transmission Line
- c. Detailed Design of 3 phase, 33/22kV backbone or Single/two phase branch distribution Network in the selected communities in Paynesville and the Rural Townships in Margibi and a community in Grand Bassa (*annexure 1*) and prepare the corresponding bidding documents
  - The network design of the 33kV and 22KV grid shall be done in such a manner as to optimize the HV: LV ratio so that losses are minimized and a technically acceptable voltage profile is maintained. Distribution transformers should be sized and positioned so as to achieve the least distribution cost
  - LV and customer connection designs will be made in such a manner that the scope of pilferage of electricity is reduced through appropriate design of service tails
- d. Review the available technical specification for the Transmission and Distribution equipment and materials for inclusion into the appropriate bidding documents
- e. Review the existing bidding documents used for the procurement of the ongoing contracts “Supply & Installation of 66/33kv Substations & Transmission/Distribution Lines – Kakata Corridor” and adapt it for the preparation of the new bidding documents for the substations, 66kV Sub transmission lines and the distribution networks in accordance with the African Development Bank Procurement Guidelines

#### **Pleebo-Fishtown Distribution**

- a. Detailed Design of 3 phase, 33 kV backbone or Single/two phase branch distribution Network from Pleebo to Fishtown and Rural Townships along the corridor prepare the corresponding bidding documents
  - The network design of the 33kV grid shall be done in such a manner as to optimize the HV: LV ratio so that losses are minimized and a technically acceptable voltage profile is maintained. Distribution transformers should be sized and positioned so as to achieve the least distribution cost
  - LV and customer connection designs will be made in such a manner that the scope of pilferage of electricity is reduced through appropriate design of service tails
- b. Review the available technical specification for the Distribution equipment and materials for inclusion into the appropriate bidding documents

Provide Bid Clarification and Evaluation Support in line African Development Bank Procurement Guidelines and assist LEC in the bidding process.

The LEC now invites eligible consulting firms (“Consultants”) to indicate their interest in providing the Services. Interested Consultants should provide information demonstrating that they have the required qualifications and relevant experience to perform the Services. The shortlisting criteria are:

- The Consultant firm must have at least 15 years working experience in power system planning and designs.
- Must have implemented at least two similar assignments in the last 10 years.
- Must have working experience with the AfDB and/or multilateral donors’ procurement policies and rules
- Working experience in Sub Sahara Africa is an advantage

Eligibility criteria, establishment of the short-list and the selection procedure shall be in accordance with the African Development Bank’s **“Rules and Procedures for the Use of Consultants”** May 2008, Revised July 2012, which is available on the Bank’s website at <http://www.afdb.org>.

Consultants may associate with other firms in the form of a joint venture or a sub consultancy to enhance their qualifications.

A Consultant will be selected in accordance with the Quality and Cost-Based Selection (QCBS) method set out in the Consultant Guidelines.

Further information can be obtained at the address below during office hours i.e. 0900 to 1700 hours.

Expressions of interest must be delivered in a written form to the address below (in person, or by mail, or by e-mail) by **Thursday, March 2, 2017**.

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