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**Institution:** World Bank

**Sector:** Power / Energy/Consulting Services

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**Loan N°./Financing:** IDA 51580, TF 15034, TF 15077

**Project:** Rural Electrification and Renewable Energy Development II (RERED II) Project

**Title:** Appointment of International Technical Consultant for UREDS Project of BREB

**Project ID:** P131263

**Borrower/Bid No:** Power Cell S-52

**APPOINTMENT OF INTERNATIONAL TECHNICAL CONSULTANT (INDIVIDUAL CONSULTANT) FOR UP-GRADATION OF RURAL ELECTRIC DISTRIBUTION SYSTEM (UREDS) PROJECT OF BREB (Package No. S-52)**

Invitation Ref. No: 27.71.0000.05.10.021.14-712

Date: 12/06/2014

The People's Republic of Bangladesh has received a credit from the International Development Agency (IDA) in the amount of US\$ 155 million towards the cost of the Rural Electrification and Renewable Energy Development II (RERED II) Project and it intends to apply a part of the proceeds of this credit to payment under the contract for the **appointment of International Technical Consultant (Individual Consultant) for Up-gradation of Rural Electric Distribution System (UREDS) Project of BREB.**

The Government of the People's Republic of Bangladesh has undertaken the "Rural Electricity Transmission and Distribution (T&D) Project" with financial support from the International Development Association (IDA) with the objective of reducing system losses and enhancing capacity in the rural distribution network in the eastern part of Bangladesh under the "Rural Electricity T&D" project of IDA. Individual project has been taken by BREB & PGCB for implementation. To act as a quality assurance advisor to the project and to provide necessary advice and inputs to the BREB in preparing/reviewing the design, developing the bid documents and technical issues for the project activities, technical consultancy support is required.

Power Cell now invites application from Individual Consultants who have required experience to perform the above mentioned consultancy services and have experience of similar assignments, The consultant will be selected based on the following evaluation criteria:

- \*Educational qualification
- \*Work experience
- \*Technical experience in transmission & distribution system
- \*Experience in the field of procurement
- \*Computer literacy & communication skills in English

**Key Functions of the Consultant:**

The consultant will conduct the services on behalf of BREB to ensure that appropriate specifications are developed and that the quality of the electrical materials and equipment procured under the project are in full compliance with the technical specifications and performance testing requirements of the contract document with supplier(s)/manufacturer(s).

In particular, the consultant shall undertake the following tasks:

- \*Support BREB in preparing/reviewing the bid documents (Technical part), the qualification criteria to be used to allow for participation by only genuine bidders with proven track record of supplying required quality electrical materials and equipment and the technical parameters to be tested before acceptance of goods for shipment;
- \*Specify information to be sought by BREB from each bidder as part of the clarification on manufacturing process to ensure that bidder has the appropriate quality control mechanism in place to be able to supply the required quality electrical materials and equipment as claimed in the bid document;
- \*Prepare/Review of bid documents (technical part) which includes technical specifications, drawings and materials requirements for bidding purpose, schedule and forms for bidding purpose, with due coordination of guidelines of BREB and WB. The bidding documents will be for procurement of line materials, turnkey contracts for substations, switching stations and river crossing towers;
- \*Assist BREB for pre-bid conference and replying bidder's question and in issuing addenda to bid documents;
- \*Support BREB in the bid evaluation process in approximately 20 international competitive bidding (ICB) packages as a member of the bid evaluation committee;

- \*Check and approve factory testing procedure and factory test results of suppliers;
- \*Review ToR for Pre-shipment inspection (PSI) agent (to be hired by BREB separately) and provide comments and suggestions for its improvement (The PSI reports, including testing reports from certified labs, in connection of the delivered electrical materials and equipment in the first phase consignments will be made available to the consultant, which may be used for ready reference);
- \*Assist BREB in determining the correct size of the samples to be tested by PSI agent;
- \*Assess BREB needs, review design for selection of equipment/material, analyze problems involved and recommend type of equipment after value analysis;
- \*Prepare updated cost estimate (if required);
- \*Collect basic data from BREB or PBS for the designing of the Project and if necessary, make site surveys;
- Perform: a) layout design of distribution network and field equipment, b) installation design for substation, switching station and river crossing by tower facilities, c) design aspects like fault current, insulation level, lightning surge, voltage fluctuation, outdoor conditions etc. in selecting equipment/material;
- \*Review and certify to approve drawings and documents of the Project submitted by contractors and suppliers;
- \*Check and review the status of installation as per detailed design and supervise the work of contractors during the implementation stage, if required;
- \*Prepare reports and documents like: a) inception report, b) engineering report, c) construction schedule, d) study report on baseline survey etc., if required;
- \*Co-ordinate with Management & Supervision Consultant (to be appointed separately) and provide them data, drawing, design, information etc. as required;
- \*Carrying out any other tasks assigned by the Project Management Unit (PMU) or BREB authority.

#### **Qualification & Experience of the consultant:**

The consultant must have the following qualifications:

- \*At least Bachelor's degree in Electrical Engineering;
- \*Candidates having advanced academic/professional qualification in procurement/purchasing and supply chain will be given preference;
- \*Minimum 20 years of experience in planning, design and construction of electrical distribution and transmission system out of which minimum 10 years in distribution system;
- \*At least five (5) years work experience in the field of government procurement or have had responsibilities with a substantial content of his/her position in the procurement are i.e. use of internationally accepted contract documents for goods, works and consulting services; sound understanding of principles underlying good procurement practices and international guidelines. Understanding of GOB's procurement rules and procedure ability in identifying and resolving procurement issues will be an added advantages;
- \*Experienced in preparing technical specifications for the procurement of electrical materials and equipment used in distribution and transmission systems using the relevant international standards systems such as BDS, ASTM, BS, IEC, ANSI, UL, NEMA, IEEE, ASCE, AWWA, AISC, AWS etc.,
- \*Knowledge about testing procedure of the electrical materials and equipment
- \*Experience in preparation of procurement plans for Government projects, bidding documents, RFPs and evaluation reports following donors guidelines shall be an added advantage;
- \*Experience in construction supervision and testing and commissioning;
- \*Experience in determining the size or capacity requirements layouts of arrangement of components, selection of equipment and material;
- \*Experience in the design of MV (Medium voltage) substations, switching station and river crossing by tower and in preparing specifications for implementation under turnkey contracts;
- \*Must be computer literate with a good knowledge of standard software;
- \*Excellent communication skills in English, both written and spoken.

**Duration of the assignment:** The duration of the assignment will be approximately 200 (two hundred) days over a period of 24 months. However, the duration of the assignment may be increased or reduced according to the availability of the consultant and project needs.

**Selection Procedure:** The consultant will be selected in accordance with World Bank Guidelines: Selection and Employment of Consultants by the World Bank Borrowers, only short listed candidates will be contacted.

**Remuneration:** Negotiable

Expression of interest (2 hard copies) must be delivered to the address below by 6<sup>th</sup> July, 2014. Any submission received after the deadline will not be accepted. Interested Consultants may obtain further information at the address of the undersigned during office hours. The authority reserves the right to accept or reject all EOIs.

**Mohammad Hossain, Director General**

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