

BANGLADESH RURAL ELECTRIFICATION BOARD

PBS INSTRUCTION: 100-63

PROCUREMENT OF GIS UPDATING CONSULTANT

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Approval Date: 19/02/2020
Revision Date : -

SUBJECT: PROCUREMENT OF GIS UPDATING CONSULTANT

I. PURPOSE

To set forth BREB Policy and prescribe procedures with respect to procure GIS (Geographic Information System) Updating Consultant for rural electrical network system of PBS.

II. GENERAL

It is essential that PBS has the services of competent GIS Updating Consulting Firms (as defined in PBS Instruction 100-60) so that their GIS systems will be developed to achieve the maximum technological benefit according to the high standards established by BREB for electrical network service for RE (Rural Electric) supply systems. To achieve the goal BREB/ PBS will procure consultancy service from GIS Updating Consulting Firm.

GIS Updating Consultants are special purpose consulting firms fully trained to update GIS database. They are understood to have a level of expertise wherein GIS experts have all the tools and knowledge necessary to update a fully functioning Geographic Information System given the required satellite imagery, geographically-referenced

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electrical network system data, and other base map data (such as roads, rivers, and other geographically-referenced physical attribute data sets) necessary to update the GIS database.

III. SERVICES TO BE PROVIDED

A firm with expert capabilities in processing satellite imagery, integrating data sets, and updating an integrated base map will be engaged and retained by the PBS to support the GIS program of BREB and PBS. The firm will have a mastery of all functions related to GIS database updating and analysis, including a mastery of satellite imagery analysis, data base integration, geo-processing of integrated data sets, revision and updating to analyze data sets of ArcGIS Desktop 10x or latest, ArcGIS Pro, ArcGIS Enterprise (or similar type programs, such as NetCAD) software. The specific duties of the GIS Updating Consultant during the existing GIS database updating phase will include:

1. Procure and rectify satellite images using precision GPS with differential correction capability;
2. Process satellite imagery to define base map layers that will include rivers, roads, rail track, settlement clusters, other bodies of water and important features and landmarks;
3. Integrate existing physical and/ or electronic databases to update base map layers that include political boundaries and secondary roads;
4. Integrate transformer and other equipment record databases with electrical network system map of PBS. Integrate resulting map into base map;

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5. Correct geographically referenced electrical network system to close errors created during field data collection. Check each line segment for closure and continuity.
6. As necessary, update GIS analysis macros when changes in parameters occur, such as tariffs, materials costs, operating costs, among others.
7. Provide training to concern personnel of BREB, PBSs, and PBS Consultant to "Expert User" level (as defined in PBS Instruction 100-60).

The GIS Updating Firm will continually update as and when changes occur in PBS network system on regular basis sitting within PBS Head Office Campus. The product will consist of a master electronic file that will be archived by themselves, GIS Directorate of BREB, Concern PBS and by the GIS Updating Consulting Firm. It will also consist of a complete set of maps formatted and printed by the GIS Updating Firm, that will be delivered to the concern PBS and to the RE consulting firm. In addition, the final product delivered will include a report on the economic viability analysis of each feeder, and projects identified that would improve the economic viability of the feeder. Soft copy of all the above final products will be delivered to the Office of the Superintending Engineer, GIS of BREB and concern PBS on CD/DVD or on any other developed suitable devise.

IV. PROCEDURE FOR SELECTION OF GIS UPDATING CONSULTANT

1. GIS Updating consultant shall be selected as per PBS instruction 100-63. The following steps shall be maintained to select GIS Updating Consultant-

Step-1: Preparing Terms of Reference (TOR) & Estimate shall be prepared by PBS and approve by concern BREB Authority through GIS Directorate. From time to

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time, the Office of the Superintending Engineer, GIS will obtain approval of GIS rate schedule form BREB authority. In case of BREB Project it will be done by the Office of the Superintending Engineer, GIS;

Step-2: Invitation for EOI by the Office of the Superintending Engineer, GIS of BREB or PBS through one Bangla and one English daily national newspaper. For necessary case as per PPR same invitation may be required to publish on web site of CPTU. PE will ensure that PPR clauses are followed;

Step-3: Formation of POC (Proposal Opening Committee) & PEC (Proposal Evaluation Committee) will be approved before EOI receiving;

Step-4: Submitted EOI shall be opened by Proposal Opening Committee (POC);

Step-5: EOI will be evaluated by Proposal Evaluation Committee (PEC);

Step-6: PEC (Proposal Evaluation Committee) will make a short list on the basis of evaluation;

Step-7: RFP document should be issued among the short listed GIS Updating Consultants;

Step-8: Submitted Proposal shall have two parts (Technical Proposal and Financial Proposal);

Step-9: Technical Proposal will be evaluated first by the Proposal Evaluation Committee. Number of short listed qualified applicant will be as per PPR. Evaluation report of EOI and short list must be approved by HOPE of BREB.

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Step-10: A letter will be issued to technically qualified and short listed consultants to attain financial proposal opening. Then Financial Proposal only of short listed technically qualified consultant will be opened in presence of Consultant (if any);

Step-11: Financial Proposal of Technically responsive consultants shall be evaluated by PEC (Proposal Evaluation Committee). Evaluation Form (Annexure-1) is enclosed herewith. Invitation letter shall be issued to technically and financially lowest evaluated consultant for negotiation with PEC;

Step-12: Financial Proposal of non-qualified consultant shall be returned to the concern consultant/ applicant without open.

Step-13: After successful negotiation, selected GIS Updating Consultant shall be invited for Contract Agreement.

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