

BANGLADESH RURAL ELECTRIFICATION BOARD

PBS INSTRUCTION: 100-62

PROCUREMENT OF GIS DEVELOPER CONSULTANT

**BANGLADESH RURAL ELECTRIFICATION BOARD
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Approval Date: 19/02/2020
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SUBJECT: PROCUREMENT OF GIS DEVELOPER CONSULTANT

I. PURPOSE

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

II. GENERAL

It is essential that PBS has the services of competent GIS Developer 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 Developer Consulting Firm.

GIS developer Consultants are special purpose consulting firms fully trained to develop GIS database. They are understood to have a level of expertise wherein GIS experts have all the tools and knowledge necessary to develop a fully functioning Geographic Information System given the required satellite imagery, geographically-referenced electrical network system data, and other base map data (such as roads, rivers, and other

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geographically-referenced physical attribute data sets) necessary to develop the GIS database.

III. SERVICES TO BE PROVIDED

A firm with expert capabilities in processing satellite imagery, integrating data sets, and developing 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 development and analysis, including a mastery of satellite imagery analysis, data base integration, geo-processing of integrated data sets, and revision and updating ArcGIS Desktop 10x or latest, ArcGIS Enterprise, ArcGIS Pro (or similar type software, such as NetCAD) programs designed to analyze data sets. The specific duties of the GIS Developer Consultant during the GIS database development phase will include:

1. Procure and rectify satellite images using precision GPS with differential correctional capability, such as RTK GPS or DGPS with (\pm) 0.5 meter accuracy;
2. Process satellite imagery to define base map layers that will include structure, rivers, roads, rail track, settlement clusters, other bodies of water and other important features or landmark;
3. Integrate existing physical and/ or electronic databases to develop 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, RE consultant of PBSs and GIS Updating Consulting Firm personnel to "Expert User" level (as defined in PBS Instruction 100-60).

The GIS Developer Firm will finalize the GIS product for PBS once all required data layers have been integrated, reviewed for data accuracy, and corrected. The product will consist of a master electronic file that will be archived by themselves, Office of the Superintending Engineer, GIS of, 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 Development 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 Office of the Superintending Engineer, GIS of BREB and concern PBS on CD/DVD or on any other developed suitable device.

IV. PROCEDURE FOR SELECTION OF GIS DEVELOPER CONSULTANT

1. GIS Developer consultant shall be selected as per PBS instruction 100-62. The following steps shall be maintained to select GIS Developer Consultant-

Step-1: Preparing Terms of Reference (TOR) & Estimate shall be prepared by PBS and approve by concern BREB Authority through Office of the Superintending

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Engineer, GIS, BREB. In case of BREB Project it will be done by 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 Developer 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 Developer Consultant shall be invited for Contract Agreement.

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