

**Development of Upazila Land Suitability Assessment and Crop  
Zoning System of Bangladesh Project  
Crops Division  
Bangladesh Agricultural Research Council (BARC)  
Farmgate, Dhaka-1215**

Date: 02-07-2017

Applications are invited from the citizens of Bangladesh for the following positions under the project "Development of Upazila Land Suitability Assessment and Crop Zoning System of Bangladesh" of BARC, Dhaka. Interested candidates are requested to submit their application with recent CV along with supporting documents and a passport size photograph to the undersigned on or before 20 July, 2017 by 3:30 pm in a sealed envelope. One soft copy of application should be submitted to the email [h.rahman@barc.gov.bd](mailto:h.rahman@barc.gov.bd). Duration of service contract with the successful applicants will be for the period as mentioned against the position mentioned in the following table or upto the project period whichever will be earlier. The contract will be renewed every year on satisfactory annual performance of the incumbent.

Only short listed candidates will be invited for the interview. Persons who are in service should submit application through proper channel. Original certificates should be shown during the time of interview.

Name of position, qualification & experience, duration, and scope of work/duties and responsibilities of the positions are given below;

Sl. No.	Name of Position	Qualification and Experience	Scope of Services / Duties and Responsibilities
1.	Project Manager Position: 01 Duration: 36 man months	<p><b>a. Academic:</b></p> <ul style="list-style-type: none"> <li>- Minimum Master Degree in Geographic Information System (GIS) / Computer Sciences or related field with advanced training in GIS.</li> </ul> <p><b>b. Experience:</b></p> <ul style="list-style-type: none"> <li>- Minimum 15 years work experience in ICT &amp; GIS in any government/ autonomous bodies/ private organizations;</li> <li>- Minimum 3 years practical work experience in managing IT project in any government/ autonomous/ private organization;</li> <li>- Preference will be given to the candidates having experience in land resource applications of GIS technology such as crop zoning or similar type of work;</li> <li>- Should have experience in preparing Terms of Reference for hiring specialist and consultancy services.</li> <li>- Work experience in donor funded/ development project in ICT establishment will have preference;</li> <li>- High level of proficiency in written and spoken English and report writing;</li> <li>- Efficient in operating MS Word, Excel, Power Point, email/Internet etc. is essential.</li> </ul>	<ul style="list-style-type: none"> <li>- Implement, organize and control project activities under the direction of project coordinator;</li> <li>- Dealing the experts in performing their tasks towards fulfilling the project objectives;</li> <li>- Planning, preparing budgets, and implementing GIS applications, other databases and portal;</li> <li>- Identify and assess emerging information technologies to be assimilated, integrated, and introduced for data acquisition and dissemination project output;</li> <li>- Evaluate the design, development and implementation of necessary databases and application software using associated business requirements and framework;</li> <li>- Maintain strong linkage with the outsourcing organizations for successful implementation of the online GIS based software, Remote Sensing activity and other utilities;</li> <li>- Monitoring and evaluation of the performance of ICT products/ services against plans and establishing resolution actions for any variances from plans;</li> <li>- Cooperate to develop GIS and related training program;</li> <li>- Cooperate to organize seminar/ workshop/ meetings in consultation with Project Coordinator;</li> <li>- Prepare necessary reports and deliverables relating to project activities;</li> <li>- Any other task assigned by the project management.</li> </ul>

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Sl. No.	Name of Position	Qualification and Experience	Scope of Services / Duties and Responsibilities
2.	Agriculture Expert Position: 01 Duration: 36 man months	<p><b>a. Academic:</b></p> <ul style="list-style-type: none"> <li>- Minimum Master Degree in any discipline of Agricultural Science (Preferably Agronomy/Horticulture).</li> </ul> <p><b>b. Experience:</b></p> <ul style="list-style-type: none"> <li>- Minimum 15 years work experience in agricultural research in any government/ autonomous bodies/ private organizations;</li> <li>- Preference will be given to the candidates having practical work experience in crop production system and management practices;</li> <li>- High level of proficiency in written and spoken English and report writing;</li> <li>- Efficient in operating MS Word, Excel, Power Point, email/Internet etc. is essential.</li> </ul>	<ul style="list-style-type: none"> <li>- The Expert shall be responsible for compilation of Upazila level cropping system information;</li> <li>- Maintain liaison with KGF funded climate change project to collate crop rules and other data for inputting into the database system to be maintained at BARC;</li> <li>- Maintain strong linkage with NARS institutes for collecting data relevant to land suitability and crop zoning;</li> <li>- Work in close collaboration with Soil expert and organize expert consultation in devising suitability rating of different crops;</li> <li>- Work in close cooperation with Socio-economic expert and organize expert consultation in devising socio-economic criteria for evaluation of crop/ cropping patterns;</li> <li>- Supervise field validation of crop zoning outputs;</li> <li>- Work under active guidance/ advice of Project Manager/ Coordinator;</li> <li>- Any other tasks assigned by the project authority.</li> </ul>
3.	Soil Expert Position: 01 Duration: 36 man months	<p><b>a. Academic:</b></p> <ul style="list-style-type: none"> <li>- Minimum Master Degree in Soil Science.</li> </ul> <p><b>b. Experience:</b></p> <ul style="list-style-type: none"> <li>- Minimum 15 years work experience in soil management in agriculture in any government/ autonomous/ private organizations;</li> <li>- Preference will be given to the candidates having practical work experience in the field of soil survey, soil fertility management, soil testing and fertilizer use, agroecology;</li> <li>- High level of proficiency in written and spoken English and report writing;</li> <li>- Efficient in operating MS Word, Excel, Power Point, email/Internet etc. is essential.</li> </ul>	<ul style="list-style-type: none"> <li>- Work in close cooperation with Agriculture, Socio-economic and Agro-climatic experts for finalization of limitation ratings for bio-physical and socio-economic factors of crops;</li> <li>- Work for compilation of Upazila level soil and relevant data;</li> <li>- Monitor survey activity of SRDI for updating of edaphic properties;</li> <li>- Supervise ground truthing of land type and crop/ cropping systems information;</li> <li>- Work under direct guidance/advice of Project Manager/ Coordinator;</li> <li>- Any other tasks assigned by the project authority.</li> </ul>
4.	Socio-economic Expert Position: 01 Duration: 18 man months	<p><b>a. Academic:</b></p> <ul style="list-style-type: none"> <li>- Minimum Master Degree in Agricultural Economics/ Economics.</li> </ul> <p><b>b. Experience:</b></p> <ul style="list-style-type: none"> <li>- Minimum 15 years work experience in socio-economic research in agriculture in any government/ autonomous/ private organizations;</li> <li>- Preference will be given to the candidates having practical work experience in questionnaire preparation, FGD, field surveys in agriculture;</li> <li>- Candidates with strong analytical skill and knowledge in sampling design, database management will have preference;</li> <li>- Should have experience in preparing Terms of Reference for hiring consultants and consultancy services;</li> <li>- High level of proficiency in written and</li> </ul>	<ul style="list-style-type: none"> <li>- The Expert shall be responsible for carrying out Upazila level socio-economic and cropping pattern data collection;</li> <li>- Develop and field testing of questionnaire to acquire required socio-economic parameters on Upazila basis;</li> <li>- Organize consultation workshop for finalization of socio-economic parameters required for calculating economic return of crop/ cropping pattern;</li> <li>- Compilation and organizing of socio-economic data in a database system;</li> <li>- Supervise ground truthing/ field validation of crop zoning outputs;</li> <li>- Work under direct guidance/ advice of Project Manager/ Coordinator;</li> <li>- Any other tasks assigned by the project authority.</li> </ul>

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		<p>spoken English and report writing;</p> <ul style="list-style-type: none"> <li>- Efficient in operating MS Word, Excel, Power Point, email/Internet etc. is essential.</li> </ul>	
5.	Agro-climatic expert Position: 01 Duration: 06 man months	<p><b>a. Academic:</b></p> <ul style="list-style-type: none"> <li>- Minimum Master Degree in any discipline of Science.</li> </ul> <p><b>b. Experience:</b></p> <ul style="list-style-type: none"> <li>- Minimum 15 years work experience in climate/ agro-climate in any government/ autonomous bodies/ private organizations;</li> <li>- Preference will be given to the candidates having practical work experience in agricultural meteorology and agro-climatic zonation;</li> <li>- High level of proficiency in written and spoken English and report writing;</li> <li>- Efficient in operating MS Word, Excel, Power Point, email/Internet etc. is essential.</li> </ul>	<ul style="list-style-type: none"> <li>- Study climatic parameters as required for climatic suitability analysis of crops according to FAO methodology and take necessary measures to update those;</li> <li>- Examine and compile climatic data collected from BMD;</li> <li>- Work closely with the outsourcing organization for preparation of agro-climatic data layers required for suitability analysis;</li> <li>- Work under active guidance/advice of Project Manager/ Coordinator;</li> <li>- Any other tasks assigned by the project authority.</li> </ul>
6.	GIS Analyst Position: 01 Duration: 36 man months	<p><b>a. Academic:</b></p> <ul style="list-style-type: none"> <li>- Bachelor Degree in Computer Sciences/ Engineering/ Agriculture/ Geography or related field with advanced training in GIS.</li> </ul> <p><b>b. Experience:</b></p> <ul style="list-style-type: none"> <li>- Minimum 5 (five) years work experience in GIS including software packages ArcGIS 10, QGIS, etc. and familiarity with spatial databases;</li> <li>- Good understanding of GIS methods and techniques and its application for natural resource management is essential;</li> <li>- Skill and experience with the spatial datasets developed and cataloged;</li> <li>- Demonstrated ability to work with public and private sector is desired;</li> <li>- High level of proficiency in written and spoken English and report writing;</li> <li>- Efficient in operating MS Word, Excel, Power Point, email/Internet etc. is essential.</li> </ul>	<ul style="list-style-type: none"> <li>- Obtaining and managing necessary GIS resources;</li> <li>- Performing spatial analyses and creating information products from the GIS and related software and subsystems;</li> <li>- Designing and implementing training plans in various aspects of the GIS, software and database creation and use;</li> <li>- Work for testing, documenting, and certifying applications, programmes and systems functionality;</li> <li>- Coordinating in-house GIS activities with programmers;</li> <li>- Providing support for GIS data conversion, systems integration and system's and application's development and implementation;</li> <li>- Develop GIS related training schedule and impart on-job skill development training to ICT professional of BARC;</li> <li>- Work under direct guidance/advice of Project Manager/ Coordinator;</li> <li>- Any other tasks assigned by the project authority.</li> </ul>
7.	Remote Sensing Analyst Position: 01 Duration: 36 man months	<p><b>a. Academic:</b></p> <ul style="list-style-type: none"> <li>- Bachelor Degree in Computer Sciences/ Engineering/ Agriculture/ Geography or related field with advanced training in RS.</li> </ul> <p><b>b. Experience:</b></p> <ul style="list-style-type: none"> <li>- Minimum 5 (five) years work experience in remote sensing including software packages Erdas Imagine, Envi, QGIS, etc. and familiarity with spatial databases;</li> <li>- Good understanding of remote sensing methods and techniques is essential;</li> <li>- Demonstrated ability to work with public and private sector is desired;</li> <li>- High level of proficiency in written and spoken English and report writing;</li> </ul>	<ul style="list-style-type: none"> <li>- Manage or analyze data obtained from remote sensing systems to obtain meaningful results;</li> <li>- Analyze data acquired from aircraft, satellites, or ground-based platforms, using statistical analysis software, image analysis software, or Geographic Information Systems (GIS);</li> <li>- Process aerial or satellite imagery to create products such as land cover maps;</li> <li>- Design or implement strategies for collection, analysis, or display of geographic data;</li> <li>- Verify integrity and accuracy of data contained in remote sensing image analysis systems;</li> <li>- Interpret and analyze variable types of aerial photographs and satellite images;</li> <li>- Develop RS related training schedule and impart on-</li> </ul>

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		<ul style="list-style-type: none"> <li>- Efficient in operating MS Word, Excel, Power Point, email/Internet etc. is essential.</li> </ul>	<ul style="list-style-type: none"> <li>job skill development training to ICT professional of BARC;</li> <li>- Work under direct guidance/advice of Project Manager/ Coordinator;</li> <li>- Any other tasks assigned by the project authority.</li> </ul>
8.	Assistant Socio-economist Position: 01 Duration: 36 man months	<p><b>a. Academic:</b></p> <ul style="list-style-type: none"> <li>- Minimum Master Degree in agricultural economics/ economics.</li> </ul> <p><b>b. Experience:</b></p> <ul style="list-style-type: none"> <li>- Minimum 5 (five) years work experience in socio-economic research in any government/ autonomous/ private organizations;</li> <li>- Preference will be given to the candidates having practical work experience in the field of agriculture;</li> <li>- Must have experience in survey work, data compilation, analytical software;</li> <li>- Proficiency in written and spoken English and report writing;</li> <li>- Efficient in operating MS Word, Excel, Power Point, email/Internet etc. is essential.</li> </ul>	<ul style="list-style-type: none"> <li>- Work closely with the outsourcing organization to monitor the activity relating to appropriate and timely collection of data required for suitability analysis;</li> <li>- Work for examining of socio-economic data collected from field and formatting them before inputting into the database;</li> <li>- Field visits in relation to data collection. validation activity;</li> <li>- Work under direct guidance/ advice of Project Manager/ Coordinator;</li> <li>- Any other tasks assigned by the project authority.</li> </ul>
9.	GIS/MIS Programmer Position: 01 Duration: 36 man months	<p><b>a. Academic:</b></p> <p>Bachelor Degree in Computer Sciences/ Computer Science and Engineering/ Information Science or related field.</p> <p><b>b. Experience:</b></p> <ul style="list-style-type: none"> <li>- Minimum 3 (three) years of programming experience and skill in PHP, MySQL, C, C++ etc. and should pass in standard aptitude test;</li> <li>- Preference will be given to the candidates having practical work experience in GIS application in the field of agriculture.</li> </ul>	<ul style="list-style-type: none"> <li>- Creating and maintaining (updating and enhancing) the programmes that run the applications to satisfy specific user needs in the organization, taking full advantage of GIS/MIS platform functions and applications;</li> <li>- Developing, maintaining and executing quality control/assurance programmes, including reviewing data developed by outside contractors or acquired from outside organizations;</li> <li>- Coordinating the installation and testing of applications programmes and writing the documentation that describes the operating procedures for using them;</li> <li>- Providing technical support related to the data transmission networks of the organization;</li> <li>- Conducting (or supplementing) GIS/MIS training activities;</li> <li>- Work under direct guidance/ advice of Project Manager/ Coordinator;</li> <li>- Any other tasks assigned by the project authority.</li> </ul>
10.	Scientific Officer Position: 02 Duration: 72 man months	<p><b>a. Academic:</b></p> <ul style="list-style-type: none"> <li>- Minimum Bachelor Degree in Agricultural Science/ Economics/ Statistics.</li> </ul> <p><b>b. Experience:</b></p> <ul style="list-style-type: none"> <li>- Preference will be given to the candidates having work experience in agricultural organization;</li> <li>- Efficient in operating MS Word, Excel, Power Point, email/Internet etc.</li> </ul>	<ul style="list-style-type: none"> <li>- Work for data compilation, verification and inputting into the database and application;</li> <li>- Field visits in relation to crop zoning activity;</li> <li>- Work under direct guidance/ advice of Project Manager/ Coordinator;</li> <li>- Any other tasks assigned by the project authority.</li> </ul>
11.	Office Assistant-cum-Accountant Position: 01 Duration: 36 man-	<p><b>a. Academic:</b></p> <ul style="list-style-type: none"> <li>- Bachelor Degree in any subject or discipline.</li> </ul> <p><b>b. Experience:</b></p>	<ul style="list-style-type: none"> <li>- Maintain project's office activities and necessary utilities;</li> <li>- Maintain project's accounts and financial matter;</li> <li>- Prepare budget to organize meeting, seminars.</li> </ul>

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	months	<ul style="list-style-type: none"> <li>- Minimum 3 years work experience in office management, accounts maintaining, financial management;</li> <li>- Efficient in operating MS Word, Excel, Power Point etc. is essential;</li> <li>- Skilled in English and Bangla typing.</li> </ul>	<ul style="list-style-type: none"> <li>trainings, workshops etc.;</li> <li>- Work under active guidance/ advice of Project Manager/ Coordinator;</li> <li>- Any other tasks assigned by the project authority.</li> </ul>
12.	Computer Operator Position: 01 Duration: 36 man months	<p><b>a. Academic:</b></p> <ul style="list-style-type: none"> <li>- Bachelor Degree in any subject or discipline.</li> </ul> <p><b>b. Experience:</b></p> <ul style="list-style-type: none"> <li>- Minimum 3 years work experience as Data Encoder in government/ autonomous/ private organizations/ donor funded project;</li> <li>- Efficient in operating MS Word, Excel, Power Point etc. is essential;</li> <li>- Proficient in English and Bangla typing.</li> </ul>	<ul style="list-style-type: none"> <li>- Data processing, document preparation, training/ workshop/ seminar related work;</li> <li>- Operation and maintenance of computer systems and peripherals for proper functioning;</li> <li>- Work under direct guidance/ advice of Project Manager/ Coordinator;</li> <li>- Any other task assigned by the project authority.</li> </ul>
13.	Office Helper Position: 01 Duration: 36 man months	<p><b>a. Academic:</b></p> <ul style="list-style-type: none"> <li>- Must pass Secondary School Certificate examination.</li> </ul> <p><b>b. Experience:</b></p> <ul style="list-style-type: none"> <li>- He/she must have clear understanding on official decorum and activities.</li> </ul>	<ul style="list-style-type: none"> <li>- Safe keeping and handling of office files and documents;</li> <li>- Office cleaning and aiding to support service;</li> <li>- Work under direct guidance of Project Manager/ Coordinator.</li> <li>- Any other task assigned by the project authority.</li> </ul>

**NB: Name of the position** applied for and the project name in short **“Crop Zoning Project”** should be mentioned at the top of the envelope and email subject line.

*Zilani*  
02.07.17

**Dr. Md. Aziz Zilani Chowdhury**  
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