

**Contract Agreement  
Hydrological and Morphological Study  
Package- CIB-S-60**

**EPC-S&F JV**

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স্বাক্ষর

## Contract Agreement

This Contract for Consultancy Service in order to carry out Hydrological and Morphological Study of 14 Bridges over Different River at Naogaon, Dinajpur, Lalmonirhat, Pabna, Natore, Comilla, Feni, Chittagong and Cox's Bazar Districts (Package No:CIB.S-60, Scheme list is attached with the negotiated TOR) under the Project (herein after called "**the Contract**") is entered into this day, the **21<sup>th</sup> September 2017**, by and between the Project Director, Construction of Important Bridges on Rural Roads Project, LGED, LGED Bhaban, (Level-9), Agargoan, Sher-e-Bangla Nagar, Dhaka-1207 ("**the Client**") and Joint Venture of Engineering & Planning Consultants Ltd. and Soils and Foundations Ltd. ("**the Consultant**") having his address at 7/4, Block-A, Lalmatia, Dhaka-1207.

WHEREAS, the Client wishes to have the Service Provider performing the Services hereinafter referred to, and

WHEREAS, the Consultant is willing to perform these Services,

The gross contract value (**including IT & VAT**) of the service is Tk. **1,78,25,000.00 (One Core Seventy Eight Lakh Twenty Five Thousand taka only)** IT & VAT shall be deducted from the Gross contract value as per the prevailing government rules by the LGED at the source. The Contract Agreement will be effective from the signing date of contract. The Consultant shall perform the services during the period commencing on **21.09.2017** and continuing up to **20.02.2018** or any other period as may be subsequently agreed by the parties in writing.

“জেলাবাদ প্রকল্প নিম্ন, মুন্ডীতিকে বিদায় দিন”

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

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NOW THEREFORE the parties hereto hereby agree as follows:

1. The following documents forming the integral part of this Contract shall be interpreted in the order of priority shown:
  - (a) The Form of Contract;
  - (b) The Particular Conditions of Contract (PCC);
  - (c) The General Conditions of Contract (GCC);
  - (d) The Negotiated Terms of References (ToR);
  - (e) Minutes of the Contract Negotiation meeting,
  - (f) NoA
  - (g) Financial Proposal
  - (h) Work Schedule
  - (i) Team Composition & Task Assignment
  - (j) Staffing Schedule
  - (k) Curriculum Vitae of Proposed Personnel
2. The mutual rights and obligations of the Client and the Consultant shall be as set forth in the Contract, in particular:
  - (a) The Consultant shall carry out the Services in accordance with the provisions of the Contract; and
  - (b) The Client shall make payments to the Consultant in accordance with the provisions of the Contract.

“সেপ্টেম্বর মাস মিল, সুন্মিত্তিকে বিদায় দিল”

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

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IN WITNESS WE, the Parties hereto have caused this Contract to be signed in our respective names as of the day and year first above written.

FOR THE CLIENT,

(Md. Allah Hafiz)  
Project Director  
Construction of Important Bridges on  
Rural Roads Project, LGED, LGED  
Bhaban, (Level-9), Agargaon, Sher-e-  
Bangla Nagar, Dhaka-1207

FOR THE CONSULTANT

(Md. Abdul Wadud Bhuiyan) 21/09/2017  
Director, Engineering & Planning  
Consultants Ltd.  
Authorized Signatory,  
Joint Venture of Engineering & Planning  
Consultants Ltd. and Soils and Foundations  
Ltd.  
Address: 7/4, Block-A, Lalmatia, Dhaka-  
1207.

Witnesses (on behalf of client):

1. (Ferdous Ahmed)  
Sr. Assistant Engineer  
Construction of Important Bridges on Rural  
Roads Project, LGED Bhaban (Level-9),  
Agargaon, Sher-e-Bangla Nagar Dhaka-  
1207.

2. (Md. Afiul Islam)  
Sub-Assistant Engineer  
Construction of Important Bridges on Rural  
Roads Project, LGED Bhaban (Level-9),  
Agargaon, Sher-e-Bangla Nagar Dhaka-  
1207.

Witnesses (on behalf of Consultant):

1. (Md. Zakaria Pathan) 21/09/2017  
Managing Director  
Soils and Foundations Limited  
25/13-C (3rd Floor), Tajmohal  
Road, Mohammadpur  
Dhaka-1207

2. (Muhammad Moinul Husain) 21/09/2017  
Team Leader  
(Package:CIB-S-60)

“সরকারি প্রকল্প নিয়ে, মুন্ডিতকে বিশ্বাস দিয়া”

## Section 4. Particular Conditions of Contract

<b>GCC Clause</b>	<b>Amendments of, and Supplements to, Clauses in the General Conditions of Contract</b>
	<b>RFP IDENTIFICATION NO: CIB-S-60</b>
<b>1.1 (b)</b>	<p>The Client is  <b>Project Director</b>, "Construction of Important Bridges on Rural Roads" Project, LGED, LGED Bhaban (Level 9), Agargaon, Sher-e-Bangla Nagar, Dhaka-1207.</p>
<b>1.1 (e)</b>	<p>The Consultant is : <b>Joint Venture of Engineering &amp; Planning Consultants Ltd. and Soils and Foundations Ltd.</b></p> <p>Authorized Representative of the Consultant :  Md. Abdul Wadud Bhuiyan, Director, Engineering &amp; Planning Consultants Ltd.  Address: 7/4, Block-A, Lalmatia, Dhaka-1207.</p>
<b>GCC 2.1</b>	<p>The assignment is to be completed in the following phases:</p> <p><i>None.</i></p>
<b>GCC 3.1</b>	<p>The <b>Client's</b> addresses for the purpose of Communications and Notices under this Contract is :</p> <p><b>Contact Person : Project Director</b>  Address : "Construction of Important Bridges on Rural Roads" Project, LGED, LGED Bhaban (Level 9), Agargaon, Sher-e-Bangla Nagar, Dhaka-1207.  Tel: 02-9126426  E-mail address: pd.cibrr@lged.gov.bd</p> <p>The <b>Consultant's</b> addresses for the purpose of Communications and Notices under this Contract is :</p> <p><b>Contact Person : Md. Abdul Wadud Bhuiyan</b></p> <p>Address : Director, Engineering &amp; Planning Consultants Ltd  7/4, Block-A, Lalmatia, Dhaka-1207.</p> <p>Tel : 8110221, 9113772, 9129904  Fax : 02-8114154  e-mail address:epc@epc-bd.com</p>
<b>GCC 6.1(e)</b>	<p>The following additional documents shall form the part of the Contract:</p> <p>Minutes of the contract negotiation meeting.</p>

<b>GCC 8.1</b>	Non-eligible countries are <i>Israel</i> .
<b>GCC 11.1</b>	The Member-in-Charge is: Md. Abdul Wadud Bhuiyan Director, Engineering & Planning Consultants Ltd Address: 7/4, Block-A, Lalmatia, Dhaka-1207.
<b>GCC 12.1</b>	<p>The Authorized Representatives are:</p> <p><b>For the Client :</b> Project Director, "Construction of Important Bridges on Rural Roads" Project, LGED, LGED Bhaban (Level 9), Agargaon, Sher-e-Bangla Nagar, Dhaka-1207.</p> <p><b>For the Consultant:</b> Joint Venture of Engineering &amp; Planning Consultants Ltd. and Soils and Foundations Ltd.</p> <p>Authorized Representative of the Consultant : Md. Abdul Wadud Bhuiyan, Director, Engineering &amp; Planning Consultants Ltd Address: 7/4, Block-A, Lalmatia, Dhaka-1207.</p>
<b>GCC 17.1</b>	The conditions for effectiveness of the Contract are the following: <i>None.</i>
<b>GCC 18.1</b>	The time for commencement of the Services shall be <i>from the signing date of Contract.</i>
<b>GCC 19.1</b>	The Consultant shall commence carrying out the Services not later than 7 days after the <i>signing date of Contract.</i>
<b>GCC 20.1</b>	The Contract shall expire at the end of 150 days after the <i>signing date of Contract.</i>
<b>GCC 32.4(a)</b>	The Consultant is notified of such actions, claims, losses or damages not later than 2(two) year after conclusion of the Services.
<b>GCC 32.4(b)</b>	The ceiling on Consultant's liability shall be limited to: Tk. 1,78,25,000.00 (One Core Seventy Eight Lakh Twenty Five Thousand taka only)



GCC 33.1(a)	<p>The risks and the coverage shall be as follows:</p> <ul style="list-style-type: none"> <li>(a) Third Party motor vehicle liability insurance in respect of motor vehicles operated in Bangladesh by the Consultant or its Personnel or any Sub-Consultants or their Personnel, with a minimum coverage of: Not Applicable.</li> <li>(b) Third Party liability insurance, with a minimum coverage of: Not Applicable.</li> <li>(c) Professional Liability insurance, with a minimum coverage of: Not Applicable.</li> </ul> <p>Employer's Liability and Workers' Compensation insurance in respect of the Personnel of the Consultant and of any Sub-Consultant, in accordance with the relevant provisions of the Applicable Law, as well as, with respect to such Personnel, any such life, health, accident, travel, or other insurance as may be appropriate; : Not Applicable.</p>
GCC 35.1(c)	<p>The other actions that shall require Client's approval are:</p> <p><i>None.</i></p>
GCC 37.3	<p>The other restrictions about future use of documents and software are;</p> <p>"The Consultant shall not use these documents and software for purposes unrelated to this Contract without the prior written approval of the Client".</p>
GCC 39.1(d)	<p>Assistance for carrying out the Services to be provided by the Client are;</p> <p><i>None.</i></p>
GCC 45.1	<p>The particulars of the Bank Account nominated are as follows :</p> <p>Title of the Account : <i>EPC-S&amp;F JV</i></p> <p>Name of the Bank : <i>Midland Bank Ltd.</i></p> <p>Name of the Branch : <i>Dhanmondi Branch</i></p> <p>Account Number : <i>0008-1090000388</i></p> <p>Address : <i>Dhanmondi, Dhaka.</i></p>
GCC 47.1	<p>The Contract Price is Tk. 1,78,25,000.00 (One Core Seventy Eight Lakh Twenty Five Thousand taka only) (Including VAT and IT).</p>




<b>GCC 50.1</b>	<b>Advance Payment:</b> <i>Not applicable.</i>
<b>GCC 50.2</b>	<b>Advance Payment</b> will be amortized by the Client in the following manner: <i>Not applicable.</i>
<b>GCC 51.1</b>	<p>Payments shall be made in line with agreed-on outputs according to the following schedule:</p> <ul style="list-style-type: none"> <li>• <b>Inception Report:</b> Ten Percent (10%) of the Lump-Sum Contract Price shall be Paid Upon Submission of the Inception Report duly accepted by the Client.</li> <li>• <b>Draft Final Report:</b> Seventy Percent (70%) of the Lump-Sum Contract Price shall be Paid Upon Submission of the Draft Hydro-Morphological Report and the Report to be Presented by Power Point before the Panel of experts of LGED and and upon duly acceptance by the Client [As the nos of bridge=14, So the payment amount of per bridge would be 5% and Payment made to the consultant as per submission of each lot (5nos, 5nos and rest 4nos)].</li> <li>• <b>Final Report:</b> Twenty Percent (20%) of the Lump-Sum Contract Price shall be Paid Upon Submission of the Final Report and the Report to be Presented by Power Point before the Panel of experts of LGED and duly accepted by the Client.</li> </ul> <p>After Completion of the study, Total Report have to be submitted to the office of the Project Director in the form of CD.</p>
<b>GCC 51.3</b>	The Consultant shall be entitled to receive financing charges for delayed payment during the period of delay at the following rate; None.
<b>GCC 71.2(b)</b>	The place of Arbitration is: Dhaka

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## **Terms of Reference (TOR) of Hydrological and Morphological Study (Package: CIB-S-60)**

### **1.0 Background of the assignment**

The Construction of Important Bridges on Rural Roads project has been prepared to improve the rural transport and trading networks in line with the strategy of the Rural Development Projects of the Government for socio-economic development of rural people. The proposed development works will provide easy and uninterrupted access to the rural areas, facilitate marketing of agricultural products and boost rural economy by creating commercial and employment opportunities which in turn will directly benefit the poor and reduce poverty. With the above background, to create uninterrupted rural road network and to improve connectivity, this project has been prepared. The proposed project would establish communication network and ensure socio-economic development without disturbing local environment.

The Project has been approved by ECNEC on 10-01-2017. The project cost is Tk. 3926.76 core and tenure of the project is from January, 2017 to June, 2021. It is a GoB funded project and a portion of the project fund will be utilized for the services of a consulting company for Hydrological and Morphological Study of selected 14 bridges. The list of the bridges for which the services are to be provided is attached in Annexure-A

### **2.0 Objective**

The overall objective of the consultancy service is to investigate and carry out detailed hydrological, hydraulic and morphological analysis of the river sites to determine suitable locations for the proposed bridge; suggest opening and hydraulic design variables for the bridge piers, abutment/guide bunds and associated river training works.

### **3.1 Hydraulic and Hydrologic Design of Bridge:**

Collect relevant, data carryout in-depth analysis and suggest:

- i) To identity the nature of the river and water flow of river;
- ii) To identity a suitable location of the proposed bridge;
- iii) To determine clear opening and length of proposed bridge;
- iv) To identity maximum scour levels around abutments and piers of the proposed bridge;
- v) To determine alignment of approach road of the proposed bridge;
- vi) To determine formation level of approach road at proposed bridge abutment and access roads;
- vii) To study various options for selection of bridge sites and type of River Training Works (RTW) applying calibrated morphological model;

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- viii) In carrying out hydro-morphological and navigational study river features, flow details, char accretion and erosion, arial view of the sandbars including their movement etc. are to be considered and a separate section on this shall have to be added in the study report;
- ix) The consultant shall collect necessary permission of the concerned authorities (BIWTA/BWDB) including information on river class vertical and horizontal clearance requirement etc. in connection with the construction of the bridges;
- x) To determine design parameters for the bridges and the river training works;
- xi) To prepare hydraulic design of the bridges including length of bridge height of bridge and scour levels at bridge piers and abutments, annual high and low water levels, standard high and low water levels, discharge, velocity etc. Hydraulic design will also consider the possible impact of climate change.
- xii) Before construction of bridge, collect the concurrence form the concerned authority of river/canal.

### **3.2. Design of River Training Works (RTW):**

- To collect and analyze Satellite images and finding the river corridor;
- To develop two dimensional morphological model of the rivers covering the bridge sites and model calibration;
- To determine Morphological Parameters;
- To forecast on potential morphological changes in the vicinity of the proposed bridge sites before and after construction of the bridges applying calibrated morphological model
- The present erosion and deposition trend at the upstream and downstream of proposed bridge;
- Future river bank movement at river bends of the proposed bridge;
- Erosion prone areas that need protective measures both upstream and downstream of proposed bridge;
- Location and extent of required RTW for proposed bridge;
- Type of RTWs such as revetment, spurs, guide bund etc. for proposed bridge;
- Maximum depth of scour and flow velocity at or along the river training work;
- To prepare river training work layout plan, exact location with GPS coordinate and extent of the required RTW for bridges;
- To provide adequate x-section showing guide bund, slop protection, toe line, apron with alternative construction materials;
- To provide detailed cost estimate and technical specification of river training work.

### **4.0 Key Professionals and Estimated Man-month**

Sl. No.	Designation of Resource Personnel	Number	Month	Estimated Man-month
1.	Team Leader cum Hydrological Design Specialist	1	5.00	5
2.	Senior Hydrologist/ Modeling Engineer	3	5.00	15.00



3.	Morphologist/ Hydraulic Engineering or Specialist/ Hydraulic Modeler	3	4.00	12.00
4	Structural Engineer	2	4.00	8.00
5.	GIS Specialist	2	3.00	6.00
	<b>Total</b>	<b>11</b>		<b>46.00</b>

#### 4.1 Qualifications and experiences

The minimum required qualification and experience of professional staff are as follows:

**4.1.1 Team Leader/Hydrological Design Specialist:** The Team Leader should have a minimum B.Sc Engineering degree in Civil/Water Resources Engineering from any recognized university. He/She should have minimum 20(twenty) years of working experiences in the field of Water Resources Engineering. He/She should be experienced in project formulation and management, and 15 (fifteen) years of experience in hydrology, river hydraulics and morphological study. He/She must have working experience in carrying out hydrological, morphological and hydraulic study of large and small bridges under LGED/RHD.

Tasks:

- Take full responsibility for all aspects of planning, liaison and reporting;
- Guide and supervise the study team in carrying out the hydrological, hydraulic, morphological, social and design related activities;
- Coordinate the study activities;
- Take necessary steps to collect existing data from external sources;
- Take responsibility for the quality of the consultancies jobs and devising the potential options;
- Analyze and interpret the study results for proper designing of bridge;

**4.1.2 Senior Hydrologist/Modeling Engineer:** The consultant should have a minimum of B.Sc Engineering degree in Water Resources Engineering/Civil Engineering with 15 years general work experience and 12 years specific experience in water resource engineering and hydrology of large bridges.

Tasks:

- Establish baseline hydrological condition in the project area;
- Identify hydrological factors that may influence the hydrology and hydraulics in the project area;
- Establish likely hydrological scenarios;
- Conduct navigational survey;
- Establish vertical and horizontal clearance for the proposed bridge;
- Attend interaction meeting with LGED;
- Preparation of different reports as required for the proposed study;
- Miscellaneous task as and when required.

**4.1.3 Morphologist/ Hydraulic Engineering Specialist/Hydraulic Modeler:** He/ She have a minimum of B.Sc Engineering degree in Civil/Water Resources Engineering preferably in river hydraulics and morphology. He/She should have at least 12 (twelve) years of general experience and 08(eight) years experience in river morphology and hydraulics. He/She should have intensive research experience in river morphology and hydraulics.

Tasks:

- Analyze and interpret historical data as well as surveyed data of the river;
- Carry out hydrodynamic and morphological analysis;
- Analyze the results and establish morphological characteristics of the river and identification of erosion vulnerable area;
- Assess the need of river training work;
- Assist team leader in coordinating the study;
- Preparation of different reports as required for the proposed study;
- Miscellaneous task as and when required.

**4.1.5 Structural Engineer:** He/ She should have an M.Sc in Structural/ B.Sc in Civil engineering other equivalent degree from any recognized university. He/She should have at least 12 (twelve) years of general experience and 8 (eight) years working experiences in the field of designing of bridges and RTW.

Tasks:

- Determine design parameters for the bridges and the river training works.
- Prepare hydraulic design of the bridges including length of bridge height of bridge and scour levels at bridge piers and abutments.
- Prepare river training work layout plan, exact location with GPS co-ordinate and extent of the required RTW for bridges;
- Maximum depth of scour and flow velocity at or along the river training work;
- Prepare river training work layout plan, exact location with GPS co-ordinate and extent of the required RTW for bridges;
- Provide adequate x-section showing guide bund, slop protection, toe line, apron with alternative construction materials;
- Provide detailed design, cost estimate and technical specification of river training work.
- Miscellaneous task as and when required.

**4.1.6 GIS Specialist:** He/ She should have a B.Sc in Civil/Water Resources Engineering/M.Sc in Geography or any other equivalent degree from any recognized university. He/She should have at least 8 (eight) years of general experience and 5(five) years working experiences in the field of Water Resources Engineering with application of GIS in water sector projects.

Tasks:

- Processing satellite images
- Identification of bank-line shifting and plan form change using satellite images
- GIS analysis of riverbank locations;

- Preparation of different reports as required for the proposed study;
- Miscellaneous task as and when required.

### **5. Total Study period and reporting schedule**

The total study period of the proposed bridge is 5 (five) months. Within this period following reports would be submitted:

Sl. No	Reports	Person to receive them	Date of submission/duration	Remarks
1.	Inception Report	Project Director	3(three) copies of inception report within 1(one) month after commencement of the assignment.	Before finalization the report, the consultant shall must arrange a presentation session on the report in the LGED H/Q. So that, the LGED officials can makes a comment about the report. The consultant will address all relevant comments in the report.
2.	Draft Hydro-Morphological Report	Do	<p>5(five) copies of the Draft final report would have to be submitted to the PD in the following Schedule:</p> <p>(a) Within 2.50 Month after the Commencement of the assignment: The report at least 5(five) nos. of bridges.</p> <p>(b) Within 3.50 Month after the Commencement of the assignment: The report at least 5(five) nos. of bridges.</p> <p>(c) Within 4.00 Month after the Commencement of the assignment: The report at least 4(four) nos. of bridges.</p>	
3.	Final Report	Do	3(three) copies for proposed bridge under the study would have to be submitted within four weeks of submission of draft final report addressing all comments (if any).	

## **6. Facilities to be Provided by the Client**

- LGED PD Office will assist in acquiring various hydrological or other data if necessary by issuing letter to the concerned authority.
- LGED PD Office will provide necessary GIS maps, Upazila base maps, records on rivers, if available with selected prices in the GIS unit LGED.

## **7. Mode of Payment:**

The payment to the Consultants will be made by the Client (LGED) as per following schedule:

- **Inception Report:** Ten Percent (10%) of the Lump-Sum Contract Price shall be Paid Upon Submission of the Inception Report duly accepted by the Client.
- **Draft Final Report:** Seventy Percent (70%) of the Lump-Sum Contract Price shall be Paid Upon Submission of the Draft Hydro-Morphological Report and the Report to be Presented by Power Point before the Panel of experts of LGED and and upon duly acceptance by the Client [As the nos of bridge=14, So the payment amount of per bridge would be 5% and Payment made to the consultant as per submission of each lot (5nos, 5nos and rest 4nos)].
- **Final Report:** Twenty Percent (20%) of the Lump-Sum Contract Price shall be Paid Upon Submission of the Final Report and the Report to be Presented by Power Point before the Panel of experts of LGED and duly accepted by the Client.

After Completion of the study, Total Report have to be submitted to the office of the Project Director in the form of CD.



## List of Bridges of Hydrological & morphological Study

Annexure-A

Package- CIB-S-60

Sl No	District	Upazila	Name of the Bridge	Proposed Bridge Length (m)
1	Naogaon	Niamatpur	Const. of 150m long PSC Girder Bridge over Sheeb river near Radhanagar Ghat road on Bahadurpur union at Ch.3250 m under Niamatpur Upazila of Naogaon District [ Road ID: 164694011]	150
2	Naogaon	Dhamoirhat	Const. of 250m long PSC Girder Bridge over Atari river on Debipur Hat-Khelna UP-Alampur UP road at Ch.7424m under Dhamoirhat Upazila of Naogaon District [ Road ID: 164283001]	250
3	Dinajpur	Biral	Const. of 300m long PSC Girder Bridge over Punorvoba river on Buzruk Basantopur Ghat at Buzruk Basantopur-Ghughudanga connecting road of Sadar Upazila part at Ch. 18700m under Upazilla:Biral, District: Dinajpur [Road ID:127172010]	300
4	Dinajpur	Birganj	Const. of 320 m long PSC Girder Bridge over Atrai river on Sujalpur UP Office (Birganj Upazila H/Q)-Pakerhat GC (Khanshama Upazila) via Burir Bazar road (Jointia ghat) at Ch 7350m under Birganj Upazila, District: Dinajpur [Road ID:127122007]	320
5	Salmonirhat	Hatibandha	Const. of 180m long PSC Girder Bridge over Sanajan river on Goddimari Union Connecting road at Ch. 4100m under Upazilla: Hatibandha, District: Salmonirhat [Road ID:152333016]	180
6	Pabna	Faridpur	Const. of 180 m long PSC Girder Bridge over Boral river at Ch.15100m on Ershadnagar Hat-Demra UP office road under Faridpur Upazila, District: Pabna [Road ID: 176333008].	180
7	Natore	Singra	Const. of 120 m long PSC Girder Bridge over Atrai river on near Mohesh Chandopur Govt. Primary School road (Singra-bliabari-Kalam-Pangashia-Nazirpru road) at Ch.3350m under Singra Upazila, District: Natore [Road ID: 169912006]	120
8	Comilla	Nangalkot	Const. of 100m long PSC Girder Bridge over Dakatia river on Dhalua Bazar GC Dorkar road at Ch.5500m under Nangalkot Upazila, District: Comilla [Road ID: 419872012]	100
9	Comilla	Meghna	Const. of 260m long PSC Girder Bridge over Meghna Branch river on Calibanga bazar to Islampur road at Ch. 1900m under Meghna Upazila, District: Comilla [Road ID: 419884031].	260
10	Comilla	Meghna	Const. of 250m long PSC Girder Bridge over Meghna Branch river on Boria Kandi Village to Tulatuli Bazar road at Ch. 2000 m under Meghna Upazila, District: Comilla [Road ID: 419884032].	250
11	Feni	Sadar	Const. of 120m long PSC Girder Bridge over Mohuri river on Feni Masterpara-Loshkorhat-Bhuiarhat-Chhagolnaia road under Sadar Upazila District: Feni .	120
12	Chittagong	Fatikchari	Const. of 110m long PSC Girder Bridge over Halda river on Pachpukuria road at Ch. 1500m under Upazilla: Fatikchari, District: Chittagong [Road ID:415334108]	110
13	Chittagong	Mirsarai	Const. of 175 m long PSC Girder Bridge over Feni river on Shantir Hat GC to Dhaka-Chittagong Highway via Somitir Hat road at Ch.1300m under Misarai Upazila, District: Chittagong [Road ID: 415532017]	175
14	Cox's Bazar	Sadar	Const. of 230m long PSC Girder Bridge over Bharukhali Khal on Khurushkul-Bharuakhali road at Ch. 4700m under Upazilla: Sadar, District: Cox's Bazar[Road ID:422243001]	230

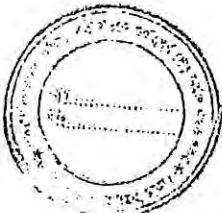


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## Section 3. General Conditions of Contract

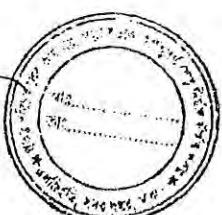
### A. General

1. **Definitions** 1.1 In the Conditions of Contract, which include Particular Conditions and these General Conditions; the following words and expressions shall have the meanings hereby assigned to them. Boldface type is used to identify the defined terms:
- (a) **Approving Authority** means the authority which, in accordance with the Delegation of Financial Powers, approves the award of Contract for the Procurement of Goods, Works and Services.
  - (b) **Client/Procuring Entity** is the party named in the PCC who engages the Consultant to perform the Services.
  - (c) **Completion** means the fulfilment of the Services by the Consultant in accordance with the terms and conditions set forth in the Contract.
  - (d) **Completion Date** is the date of actual completion of the fulfilment of the Services certified by the Client, in accordance with GCC Clause 55.1.
  - (e) **Consultant** is a person who has been short-listed to submit a Proposal for providing intellectual and professional services duly accepted by the Client; named as such in the PCC and the Contract Agreement.
  - (f) **Contract Agreement** means the Agreement entered into between the Client and the Consultant together with the Contract Documents.
  - (g) **Contract Documents** means the documents listed in the Agreement, including any Addendum thereto, that is these General Conditions of Contract (GCC), the Particular Conditions of Contract (PCC), and the Appendices.
  - (h) **Contract Price** means the price to be paid for the performance of the Services, in accordance with GCC Clause 47.1.
  - (i) **Day** means calendar day unless otherwise specified as working days.
  - (j) **Effective Date** means the date on which this Contract comes into force pursuant to GCC Clause 18.1.
  - (k) **GCC** mean the General Conditions of Contract.
  - (l) **Government** means the Government of the People's Republic of Bangladesh.
  - (m) "Head of the Procuring Entity" means the Secretary of a Ministry or a Division, the Head of a Government Department or Directorate; or the Chief Executive, or as applicable, Divisional Commissioner, Deputy Commissioner, Zilla Judge; or by whatever designation called, of a local Government agency, an autonomous or semi-autonomous body or a corporation, or a corporate body established under the Companies Act;



- (n) **Intended Completion Date** is the date on which it is intended that the Consultant shall complete the Services as specified in the GCC Sub Clause 20.1
- (o) **Member** means in case where the Consultant consists of a joint venture, consortium or association any of the entities that make up the joint venture; and "Members" means all these entities.
- (p) **Month** means calendar month
- (q) **Party** means the Client or the Consultant, as the case may be, and "Parties" means both of them. Third party means any party other than Client and Consultant.
- (r) **Personnel** means professionals and support staff provided by the Consultant or by any Sub-Consultant and assigned to perform the Services or any part thereof; and "Key Staff/Personnel" means the Personnel referred to in GCC Sub Clause 23.1.
- (s) **Reimbursable expenses** mean all assignment-related costs other than Consultant's remuneration.
- (t) **Remuneration** means all costs related to payments of fees to the Consultant for the time spent by the professional and other staff on assignment related activities.
- (u) **PCC** means the Particular Conditions of Contract by which the GCC may be amended or supplemented.
- (v) **Services** means the work to be performed by the Consultant pursuant to this Contract, as described in Appendices 1 to 6 of the Contract Agreement.
- (w) **Sub-Consultant** means any person or entity to whom/which part of the Services is sub-consulted.
- (x) **Third Party** means any person or entity other than the Government, the Client, the Consultant or a Sub-Consultant.
- (y) **Writing** means communication written by hand or machine duly signed and includes properly authenticated messages by facsimile or electronic mail.

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| 2. Phased Completion          | 2.1 If phased completion is specified in the PCC, references in the GCC to the Services, the Completion Date, and the Intended Completion Date apply to any Phase of the Services (other than references to the Completion Date and Intended Completion Date for the whole of the Services).  |
| 3. Communications and Notices | <p>3.1 Communications between Parties (notice, request or consent required or permitted to be given or made by one party to the other) pursuant to the Contract shall be in writing to the address as specified in the PCC.</p> <p>3.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.</p> <p>3.3 A Party may change its address for notice hereunder by giving the other Party notice of such change to the address.</p> |



- 4. Governing Law**      4.1 The Contract shall be governed by and interpreted in accordance with the laws of the People's Republic of Bangladesh.
- 5. Governing Language**      5.1 The Contract shall be written in English. All correspondences and documents relating to the Contract may be written in English or *Bangla*. Supporting documents and printed literature that are part of the Contract may be in another language, provided they are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Contract, such translation shall govern.
- 6. Documents Forming the Contract in Order of Precedence**      6.1 The following documents forming the Contract shall be interpreted in the following order of priority:
- (a) the Contract Agreement;
  - (b) the Particular Conditions of Contract (PCC);
  - (c) the General Conditions of Contract (GCC);
  - (d) the Appendix 1 to 6; and
  - (e) any other document as specified in the PCC forming part of the Contract.
- 7. Assignment**      7.1. Neither the Client nor the Consultant shall assign, in whole or in part, their obligations under this Contract; except with prior written approval of the Client.
- 8. Eligible Services**      8.1 All materials, equipment, plant, and supplies used by the Consultant and services supplied under the Contract shall have their origin in the countries, except those as specified in the PCC.
- 9. Contractual Ethics**      9.1 No fees, gratuities, rebates, gifts, commissions or other payments, other than those shown in the Proposal or the contract, shall have been given or received in connection with the selection process or in the Contract execution.
- 10. Joint Venture (JV)**      10.1 If the Consultant is a Joint Venture (JV);
  - (a) each partner of the JV shall be jointly and severally liable for all liabilities and ethical or legal obligations to the Client for performance of the Contract;
  - (b) If there is a dispute that results in legal action being taken in court then action will be taken against all partners of the JV, if they are available and, if only one partner is available, then that partner alone shall answer on behalf of all partners and, if the complaint lodged is proven, the penalty shall be applicable on that partner alone as whatever penalty all the partners would have received; provided that if the other partners of the JV subsequently become available before the legal action has been completed, the Client shall have the right to take action against those other partners of that JV as well.

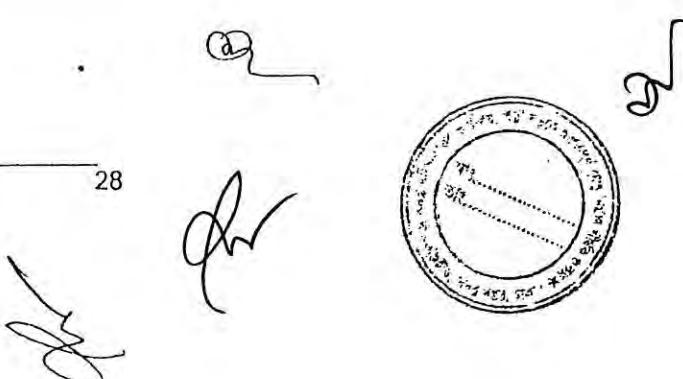


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- (c) the composition or constitution and legal status of the JV shall not be altered without the prior approval of the Client;
- (d) alteration of partners, except the **Leading partner**, shall only be allowed if any of them is found to be incompetent or has any serious difficulties which may impact the overall performance of the Service, whereby the incoming partner shall require to posses qualifications higher than that of the outgoing partner;
- (e) if any of the partners of JV has been debarred from participating in any procurement activity due to corrupt, fraudulent, collusive or coercive practices and, while in case, the **Leading partner** is found incompetent or has been debarred due to the same reasons stated herein, the Contract shall be terminated pursuant to GCC Sub Clause 60.2.
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| <b>11. Authority of Member in Charge</b>     | 11.1 In case the Consultant is a Joint Venture, the JV partners shall nominate the <b>Leading Partner</b> as <b>REPRESENTATIVE</b> , as specified in the PCC, being entrusted with the Contract administration and management at assignment location, as stated under GCC Sub Clause 14, who shall have the authority to conduct all business including the receipt of payments for and on behalf of all partners of the JV. |
| <b>12. Authorized Representatives</b>        | 12.1 Any action required or permitted to be taken, and any document required or permitted to be executed under this Contract by the Client or the Consultant may be taken or executed by the officials as specified in the PCC.  |
| <b>13. Relation between the Parties</b>      | 13.1 Nothing contained herein shall be construed as establishing a relation of master and servant or of principal and agent as between the Client and the Consultant. The Consultant, subject to this Contract, has complete charge of Personnel and Sub-Consultants, if any, performing the Services and shall be fully responsible for the Services performed by them or on their behalf hereunder.                        |
| <b>14. Location</b>                          | 14.1 The Services shall be performed at such locations as are specified in <b>Appendix 1</b> , to the Contract and, where the location of a particular task is not so specified, at such locations as the Client may approve.  |
| <b>15. Taxes</b>                             | 15.1 The Consultant, Sub-Consultants and Personnel shall pay such taxes, duties, fees, levies and other charges under the Applicable Law, the amount of which is deemed to have been included in the Contract Price, unless otherwise exempted by the Government.  |
| <b>16. Corrupt, Fraudulent, Collusive or</b> | 16.1 The Government requires that the Client, as well as the Consultant shall observe the highest standard of ethics during the implementation of procurement proceedings and the execution of the Contract under public funds.  |



**Coercive Practices**

16.2 The Government requires that Client, as well as the Consultant shall, during the Procurement proceedings and the execution of Contracts under public funds, ensure-

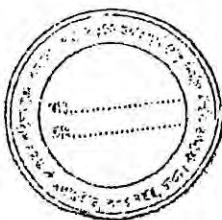
- (a) strict compliance with the provisions of Section 64 of the Public Procurement Act, 2006;
- (b) abiding by the code of ethics as mentioned in the Rule 127 of the Public Procurement Rules, 2008;
- (c) that neither it, nor any other member of its staff, or any other agents or intermediaries working on its behalf engages in any such practice as detailed in GCC Sub Clause 16.2(b).

16.3 For the purposes of ITT Sub Clause 4.3, the terms set forth below as follows:

- (a) "**corrupt practice**" means offering, giving or promising to give, receiving, or soliciting either directly or indirectly, to any officer or employee of the Client or other public or private authority or individual, a gratuity in any form; employment or any other thing or service of value as an inducement with respect to an act or decision or method followed by the Client in connection with a procurement proceeding or Contract execution;
- (b) "**fraudulent practice**" means the misrepresentation or omission of facts in order to influence a decision to be taken in a procurement proceeding or Contract execution;
- (c) "**collusive practice**" means a scheme or arrangement between two (2) or more Persons, with or without the knowledge of the Client, that is designed to arbitrarily reduce the number of Proposals submitted or fix Proposal Prices at artificial, non-competitive levels, thereby denying the Client the benefits of competitive price arising from genuine and open competition;
- (d) "**coercive practice**" means harming or threatening to harm, directly or indirectly, Persons or their property to influence a decision to be taken in the Procurement proceeding or the execution of a Contract, and this will include creating obstructions in the normal submission process used for procurement proceedings.

16.4 Should any corrupt or fraudulent practice of any kind come to the knowledge of the Client, it shall, in the first place, allow the Consultant to provide an explanation and shall take actions only when a satisfactory explanation is not received. Such decision and the reasons therefore, shall be recorded in the procurement proceedings and promptly communicated to the Consultant concerned. Any communications between the Consultant and the Client related to matters of alleged fraud or corruption shall be in writing.

16.5 If corrupt, fraudulent, collusive or coercive practices of any kind determined by the Client against the Consultant alleged to have carried out such practices, the Client will :

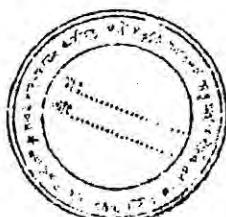


- (a) exclude the Consultant from further participation in the particular Procurement proceeding; or
- (b) declare, at its discretion, the Consultant to be ineligible to participate in further procurement proceedings, either indefinitely or for a specific period of time.

16.6 The Consultant shall be aware of the provisions on corruption, fraudulence, collusion and coercion in Section 64 of the Public Procurement Act, 2006 and Rule 127 of the Public Procurement Rules, 2008.

## B. Commencement, Completion and Modification

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| 17. Effectiveness of Contract   | 17.1 The Contract shall come into force and effect on the date, called the "Effective Date", of the Client's notice to the Consultant instructing the Consultant to commence carrying out the Services. This notice shall confirm that the effectiveness conditions, if any, as specified in the PCC have been met.  |
| 18. Effective Date              | <p>18.1 The date the Contract comes into effect shall be as specified in the PCC.</p> <p>18.2 If the Contract has not become effective within such time period after the date of the Contract signed by the Parties as specified in the GCC Clause 18.1, either Party may, by not less than twenty-eight (28) days written notice to the other Party, declare this Contract to be null and void, and in the event of such a declaration by either Party, neither Party shall have any claim against the other Party with respect hereto.</p>   |
| 19. Commencement of Services    | 19.1 The Consultant shall commence carrying out the Services not later than the number of days after the Effective Date as specified in the PCC.   |
| 20. Expiration of the Contract  | 20.1 Unless terminated earlier pursuant to GCC Clauses 60 to 63, this Contract shall expire at the end of such period after the Effective Date as specified in the PCC.  |
| 21. Modifications or Variations | <p>21.1 The Client may notify the Consultant to alter, amend, omit, add to, or otherwise vary the services, provided that the changes in the Services involved are necessary for the satisfactory completion of the assignment.</p> <p>21.2 Any modification or variation of the terms and conditions of the Contract, including any modification or variation of the Scope of the Services, may only be made by written agreement between the Parties. Each Party shall give due consideration to any proposals for modification or variation made by the other Party.</p> <p>21.3 The Consultant shall submit to the Client an estimate for the proposed change in the Services within fifteen (15) days of receipt of such Variation Order(s) as stated under GCC Sub Clause 21.2. The estimate shall comprise the following:</p> |



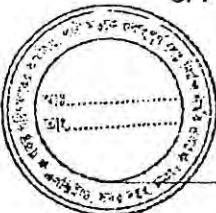
- (a) an estimate of the impacts, if any, of the Variation Orders on the staffing Schedule;
- (b) a detailed schedule for execution of the Variation Orders showing the resources to be employed and significant outputs;
- (c) a detail costing covering the total amount of the Variation Orders; and
- (d) a proposed revision of the schedule of payments as approved, if required.

21.4 Variation Orders, as stated under GCC Sub Clause 21.2, costing within fifteen (15) percent of the original Contract Price shall be approved by the **Approving Authority** and for cost beyond fifteen (15) percent by the authority higher than the **Approving Authority**, as determined by the Delegation of Financial Power and sub-delegation thereof.

21.5 For the purpose of determining the remuneration due for services or any other reimbursable expenses under Variation Orders as may be agreed under GCC Clause 21, the breakdown of the lump-sum price provided in **Forms 5B3 and 5B4** shall be the basis.

## C. Consultant's Personnel and Sub-Consultants

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| 22. General                                 | 22.1 The Consultant shall employ and provide such qualified and experienced Personnel and Sub-Consultants as are required to carry out the Services under the Contract.  |
| 23. Description of Personnel                | <p>23.1 The title, agreed job description, precise minimum qualification and period of engagement in carrying out of the Services of each of the Consultant's Key Personnel are described in <b>Appendix 3</b>, to the Contract.</p> <p>23.2 The periods of engagement of Key Personnel set forth in <b>Appendix 3</b> may be increased by agreement in writing between the Client and the Consultant, if additional work is required beyond the Scope of the Services specified in <b>Appendix 1</b> to the Contract. In case that will cause payments under the Contract to exceed the ceiling set forth in GCC Sub Clause 44.2 of this Contract, this will follow procedures as stated under GCC Clause 21, including prior review where necessary.</p> |
| 24. Approval of Personnel                   | 24.1 The Client approves the Key Personnel and Sub Consultants listed by title as well as by name in <b>Appendix 3</b> to the Contract. In respect of other Personnel that the Consultant proposes to use in carrying out of the Services, the Consultant shall submit to the Client for review and approval a copy of their Curricula Vitae (CVs).  |
| 25. Removal and/or Replacement of Personnel | 25.1 Except as the Client may otherwise agree, no changes shall be made in the Personnel. If, for any reason beyond the reasonable control of the Consultant, it becomes necessary to replace any of the Personnel, the Consultant shall forthwith provide as a replacement a person of equivalent or higher qualifications acceptable to the Client, including prior review where necessary.  |


  
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**25.2 If the Client**

- (a) finds that any of the Personnel has committed serious misconduct or has been charged with having committed a criminal action; or
- (b) has reasonable cause to be dissatisfied with the performance of any of the Personnel;

then the Consultant shall, at the Client's written request specifying the grounds therefore, forthwith provide as a replacement, a person with qualifications and experience, as stated under GCC Sub Clause 25.1, acceptable to the Client.

**25.3 Any of the Personnel provided as a replacement under GCC Sub Clause 25.1 and 25.2, the rate of remuneration applicable to such person as well as any reimbursable expenses, the Consultant may wish to claim as a result of such replacement, shall be subject to the prior written approval by the Client. Except as the Client may otherwise agree;**

- (a) the Consultant shall bear all additional travel and other costs arising out of or incidental to any removal and/or replacement, and
- (b) the remuneration to be paid for any of the Personnel provided as a replacement shall not exceed the remuneration which would have been payable to the Personnel replaced.

**25.4 In the event that any Sub-Consultant is found by the Client to be incompetent or incapable of discharging the allocated duties, the Client may request and the Consultant shall provide a replacement, with qualifications and experience acceptable to the Client, or to resume the performance of the Services by itself.**

**D. Obligations of the Consultant**

**26. Standard of Performance**

- 26.1 The Consultant shall perform the Services and carry out its obligations hereunder with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The Consultant shall always act, in respect of any matter relating to this Contract or to the Services, as faithful advisers to the Client, and shall at all times support and safeguard the Client's legitimate interests in any dealings with Sub Consultants or Third Parties.

**27. Conflict of Interests**

- 27.1 The Consultant shall hold the Client's interests paramount, without any consideration for future work, and strictly avoid conflict with other assignments or their own corporate interests.

**28. Consultant Not to Benefit from**

- 28.1 The remuneration of the Consultant as stated under GCC Clause 44, 45 and 46 shall constitute the Consultant's sole remuneration in connection with this Contract and, subject to GCC Sub Clause 29.1hereof, the Consultant shall not accept for their own benefit



<b>Commissions Discounts etc.</b>	<p>any trade commission, discount or similar payment in connection with activities pursuant to this Contract or in the discharge of their obligations hereunder, and the Consultant shall use their best efforts to ensure that any Sub-Consultants, as well as the Personnel and agents of either of them, similarly shall not receive any such additional remuneration.</p>
	<p>28.2 Furthermore, if the Consultant, as part of the Services, have the responsibility of advising the Client on the procurement of Goods, Works or Services, the Consultant shall at all times exercise such responsibility in the best interest of the Client. Any discounts or commissions obtained by the Consultant in the exercise of such procurement responsibility shall be for the account of the Client.</p>
<b>29. Consultant and Affiliates not to Engage in Certain Activities</b>	<p>29.1 The Consultant agrees that, during the term of this Contract and after its termination, the Consultant and any entity affiliated with the Consultant, as well as any Sub-Consultant and any entity affiliated with such Sub-Consultant, shall be disqualified from providing goods, works or services (other than consulting services) for any project resulting from or closely related to this consulting services .</p>
<b>30. Prohibition of Conflicting Activities</b>	<p>30.1 The Consultant shall not engage, and shall cause their Personnel as well as their Sub-Consultants and their Personnel not to engage, either directly or indirectly, in any business or professional activities in Bangladesh that would conflict with the activities assigned to them under this Contract.</p>
<b>31. Confidentiality</b>	<p>31.1 Except with the prior written consent of the Client, the Consultant and the Personnel shall not at any time communicate to any person or entity any confidential information acquired in the course of the Services, nor shall the Consultant and the Personnel make public the recommendations formulated in the course of, or as a result of, the Services.</p> <p><i>[For the purposes of this Clause "confidential information" means any information or knowledge acquired by the Consultant and/or their Personnel arising out of, or in connection with, the performance of the Services under this Contract that is not otherwise available to the public]</i></p>
<b>32. Liability of the Consultant</b>	<p>32.1 The Consultant, in lieu of furnishing any Performance Security, shall be, liable to and required to indemnify, the Client as stated under GCC Sub Clause 32.2 thru 32.6 Inclusive for due performance of the Contract.</p> <p>32.2 The Consultant shall indemnify the Client from and against any and all claims, liabilities, obligations, losses, damages, penalties, actions, judgment, suits, proceedings, demands, costs, expenses and disbursements of whatsoever nature that may be imposed on, incurred by or asserted against the Client during or in connection with the Services by reason of:</p> <ul style="list-style-type: none"> <li>(a) infringement or alleged infringement by the Consultant of any patent or other protected right; or</li> <li>(b) plagiarism or alleged plagiarism by the Consultant.</li> </ul>



32.3 The Consultant shall ensure that all goods and services (including without limitation all computer hardware, software and systems) procured by the Consultant out of funds provided or reimbursed by the Client or used by the Consultant in the carrying out of the Services do not violate or infringe any industrial property or intellectual property right or claim of any third party.

32.4 The Consultant shall indemnify, protect and defend at their own expense the Client, and its agents and employees from and against any and all actions, claims, losses or damages arising out of Consultant's failure to exercise the skill and care required under GCC Clause 26 provided:

- (a) that the Consultant is notified of such actions, claims, losses or damages not later than the number of months after conclusion of the Services as specified in the PCC;
- (b) that the ceiling on the Consultant's liability under GCC Clause 26 shall be limited to the amount as specified in the PCC, except that such ceiling shall not apply to actions, claims, losses or damages caused by Consultant's gross negligence or reckless conduct; and
- (c) that the Consultant's liability under GCC Clause 26 shall be limited to actions, claims, losses or damages directly caused by such failure to exercise the said skill and care, and shall not include liability for any actions, claims, losses or damages arising out of occurrences incidental or indirectly consequential to such failure.

32.5 In addition to any liability the Consultant may have under GCC Clause 26, the Consultant, at their own cost and expense, upon request of Client; shall re-perform the Services in the event of Consultant's failure to exercise the skill and care required under GCC Clause 26.

32.6 Notwithstanding the provisions of GCC Sub Clause 32.4(a), the Consultant shall have no liability whatsoever for actions, claims, losses or damages occasioned by:

- (a) Client's overriding a decision or recommendation of the Consultant or requiring the Consultant to implement a decision or recommendation with which Consultant do not agree; or
- (b) the improper execution of the Consultant's instructions by agents, employees or independent contractors of the Client.



	33.1	The Consultant
33. Insurance to be taken out by the Consultant		<ul style="list-style-type: none"> <li>(a) shall take out and maintain, and shall cause any Sub-Consultants to take out and maintain, at their (or the Sub-Consultants, as the case may be) own cost, but on terms and conditions approved by the Client, insurance against the risks, and for the coverage as specified in the PCC; and</li> <li>(b) at the Client's request, shall provide evidence to the Client showing that such insurance has been taken out and maintained and that the current premiums therefore have been paid.</li> </ul>
34. Accounting, Inspection and Auditing	34.1	The Consultant shall
		<ul style="list-style-type: none"> <li>(a) keep accurate and systematic accounts and records in respect of the Services hereunder, in accordance with nationally/internationally accepted accounting principles and in such form and detail as will clearly identify all relevant changes in time and costs, and the bases thereof;</li> <li>and</li> <li>(b) periodically permit the Client or its designated representative or the Development Partner's representative, when applicable, and up to five (5) years from the expiration or termination of this Contract, to inspect the same and make copies as well as to have them audited by auditors appointed by the Client, if so required by the Client as the case may be.</li> </ul>
	34.2	The Consultant shall furnish the Client such information relating to the Services as the Client may from time to time reasonably request.
35. Consultant's Actions Requiring Client's Prior Approval	35.1	<p>The Consultant shall obtain the Client's prior approval in writing before taking any of the following actions:</p> <ul style="list-style-type: none"> <li>(a) any change or addition to the Personnel listed in Appendix 3 to the Contract;</li> <li>(b) any subcontract relating to the Services to an extent and, with such specialists and entities as may be approved; and</li> <li>(c) any other action that may be specified in the PCC.</li> </ul>
	35.2	Notwithstanding any approval under GCC Sub Clause 35.1(b), the Consultant shall remain fully liable for the performance of Services by the Sub-Consultant and its Personnel and retain full responsibility for the Services.
36. Reporting Obligations	36.1	The Consultant shall submit to the Client the reports and documents specified in Appendix 2 to the Contract hereto, in the form, in the numbers and within the time periods set forth in the Appendix 2. Final Reports shall be delivered in CD ROM in addition to the hard copies specified in the said Appendix.



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- 37. Proprietary Rights on Documents Prepared by the Consultant**
- 37.1 All plans, maps, diagrams, drawings, specifications, designs, statistics, reports, other documents, data and software compiled or prepared by the Consultant for the Client under this Contract shall become and remain the absolute property of the Client, and the Consultant shall, not later than upon termination or expiration of this Contract, deliver all such documents to the Client, together with a detailed inventory.
  - 37.2 The Consultant may retain a copy of such documents and software, and use such software for their own use with the prior written approval of the Client.
  - 37.3 Other restrictions, if any, about the future use of these documents and software, if any, shall be as specified in the PCC.
- 38. Proprietary Rights on Equipment and Materials Furnished by the Client.**
- 38.1 Equipment, tools and materials made available to the Consultant by the Client, or purchased by the Consultant wholly or partly with funds provided by the Client, shall be the property of the Client and shall be marked accordingly.
  - 38.2 Upon termination or expiration of this Contract, the Consultant shall make available to the Client an inventory of such equipment and materials and shall dispose of such equipment and materials in accordance with the Client's instructions.
  - 38.3 During the possession of such equipment and materials, the Consultant, unless otherwise instructed by the Client in writing, shall insure them at the expense of the Client in an amount equal to their full replacement value.
- E. Obligations of the Client**
- 39. Assistance and Exemptions**
- 39.1 The Client shall use its best efforts to ensure that the Government shall:
    - (a) provide the Consultant, Sub-Consultants and Personnel with documents as shall be necessary to enable the Consultant, Sub-Consultants or Personnel to perform the Services;
    - (b) issue to officials, agents and representatives of the Government all such instructions as may be necessary or appropriate for the prompt and effective implementation of the Services;
    - (c) assist the Consultant in obtaining necessary licenses and permits needed to carry out the Services; and
    - (d) provide to the Consultant, Sub-Consultants and Personnel any such other assistance as may be specified in the PCC.
- 40. Access to Land**
- 40.1 The Client warrants that the Consultant shall have, free of charge, unimpeded access to all land in respect of which access is required for the performance of the Services. The Consultant shall, however, be responsible for any damage to such land or any property thereon



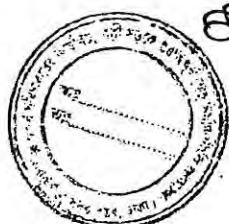
resulting from such access, and will indemnify the Consultant and each of the Personnel in respect of liability for any such damage, unless such damage is caused by the default or negligence of the Consultant or any Sub-Consultant or the Personnel of either of them.

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| <b>41. Change in the Applicable Law Related to Taxes</b> | 41.1 If, after the date of signing of the Contract, and during the performance of the Contract, there is any change in the Applicable Law with respect to taxes which increases or decreases the cost incurred by the Consultant in performing the Services, then the amounts otherwise payable to the Consultant under this Contract shall be increased or decreased accordingly by agreement between the Parties hereto, and corresponding adjustments shall be made to the ceiling amount specified in GCC Sub Clause 44.2.   |
| <b>42. Services and Facilities</b>                       | 42.1 The Client shall make available to the Consultant, for the purposes of the Services, free of any charge, the services and facilities described in Appendix 4 to the Contract at the times and in the manner specified.<br><br>42.2 In case that such services and facilities shall not be made available to the Consultant as specified in Appendix 4, the Parties shall agree on:<br><br>(a) any time extension that may be appropriate to grant to the Consultant for the performance of the Services;<br>(b) the manner in which the Consultant shall procure any such services and facilities from other sources, and<br>(c) the additional payments, if any, to be made to the Consultant as a result thereof pursuant to GCC Sub Clause 48.1. |

## F. Payments to the Consultants

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| <b>43. Payment</b>                                   | 43.1 In consideration of the Services performed by the Consultant under this Contract, the Client shall make to the Consultant such payments and in such manner as stated under GCC Clauses 44 to 53.   |
| <b>44. Cost Estimate of Services: Ceiling Amount</b> | 44.1 An estimate of the cost of the Services is set forth in Appendix 5 to the contract.<br><br>44.2 Except as may be otherwise agreed under GCC Clause 21 and subject to GCC Sub Clause 48.1, payments under this Contract shall not exceed the ceiling as specified in the GCC Sub Clause 47.1.<br><br>44.3 Notwithstanding GCC Sub Clause 44.2, if pursuant to any of the GCC Clauses 41 or 42, the Parties shall agree that additional payments as the case may be, shall be made to the Consultant in order to cover any necessary additional expenditures not envisaged in the cost estimate referred to in GCC Sub Clause 44.1 above, the ceiling set forth in GCC Sub Clause 44.2 above shall be increased by the amount of any such additional payments. |

<b>45. Payments: General</b>	45.1 Payments due to the Consultant in each certificate shall be made into the Bank Account, in any scheduled Bank of Bangladesh, of the legal title of the Consultant specified in the PCC, nominated by the Consultant in the currency specified in the Contract.
	45.2 With the exception of the final payment as stated under GCC Clause 53, payments do not constitute acceptance of the Services nor relieve the Consultant of any obligations hereunder.
<b>46. Lump-Sum Payment</b>	46.1 The total payment due to the Consultant shall not exceed the Contract Price which is an all inclusive fixed lump-sum covering all costs required to carry out the Services described in Appendix 1.
<b>47. Contract Price</b>	47.1 The Contract Price is set forth in the PCC.
<b>48. Payment for Additional Services</b>	48.1 Payment for additional Services shall be made as agreed under GCC Sub Clause 21.
<b>49. Modes of Billing and Payment</b>	49.1 Payments in respect of the Services shall be made in line with outputs according to the payment schedule as specified in GCC Clauses 50, 51 and 53.
<b>50. Advance Payment</b>	<p>50.1 If so specified in the PCC, an Advance Payment shall be made to the Consultant, of the amount and within the number of days after the Effective Date as specified in the PCC. The Advance Payment shall be made against the provision of a Bank Guarantee by the Consultant which shall:</p> <ul style="list-style-type: none"> <li>(a) remain effective until the Advance Payment has been fully amortized as specified in the PCC; and</li> <li>(b) be in the format, without any alteration, as shown in Appendix 6.</li> </ul> <p>50.2 Advance Payments shall be amortized by the Client in the manner as specified in the PCC until fully offset.</p>
<b>51. Interim Payments</b>	<p>51.1 Payment will be made according to the payment schedule as specified in the PCC subject to the provision of Advance Payment stated in GCC Clause 50. Any other payment shall also be made after the conditions as specified in the PCC for such payment have been met, and the Consultant has submitted an invoice not later than fifteen (15) days after that condition met, to the Client specifying the amount due.</p> <p>51.2 The Client shall pay the Consultant within thirty (30) days after the receipt by the Client, of the invoices.</p> <p>51.3 If the Client has delayed payment beyond thirty (30) days after the due date, interest at the annual rate as specified in the PCC shall</p>



become payable as from the above due date on any amount due by, but not paid on, such due date.

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| <b>52. Amendment to Contract</b>  | 52.1 The amendment to Contract shall generally include extension of time to the Intended Completion Date, increase or decrease in original Contract Price and any other changes duly approved under the Conditions of the Contract.<br><br>52.2 The Client shall amend the Contract, incorporating the changes approved, in accordance with the Delegation of Financial Power or Sub-delegation thereof and, introduced to the original terms and conditions of the Contract, including prior review where necessary.   |
| <b>53. Final Payment</b>          | 53.1 The final payment under this Clause shall be made only after the final report and a final statement, identified as such, shall have been submitted by the Consultant and approved as satisfactory by the Client. The Services shall be deemed completed and finally accepted by the Client and the final report and final statement shall be deemed approved by the Client as satisfactory sixty (60) days after receipt of the final report and final statement by the Client unless the Client, within such sixty (60) day period, gives written notice to the Consultant specifying in detail deficiencies in the Services, the final report or final statement. The Consultant shall thereupon promptly make any necessary corrections, and thereafter the foregoing process shall be repeated until such time as the final report and the final statement have been approved by the Client. |
| <b>54. Suspension of Payments</b> | 54.1 The Client may, by written notice of suspension to the Consultant, suspend all or part of the payments to the Consultant hereunder if the Consultant fails to perform any of its obligations under this Contract, including the carrying out of the Services, provided that such notice of suspension:<br><br>(a) shall specify the nature of the failure, and<br>(b) shall request the Consultant to remedy such failure within a period not exceeding thirty (30) days after receipt by the Consultant of such notice of suspension.   |

## G. Time Control

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| <b>55. Completion of Services</b> | 55.1 The Consultant shall carry out the Services in accordance with the Programme submitted by the Consultant and, as updated with the approval of the Client, and complete them in all respects by the Intended Completion Date, as specified in the GCC Sub Clause 20.1.  |
| <b>56. Early Warning</b>          | 56.1 If at any time during performance of the Contract, the Consultant or its Sub-Consultants should encounter events, circumstances conditions that may adversely affect the quality of the work, increase the cost of Services or delay the execution of the Services, the Consultant shall promptly notify the Client in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Consultant's notice, the Client shall evaluate the situation, and the Consultant shall cooperate with the |

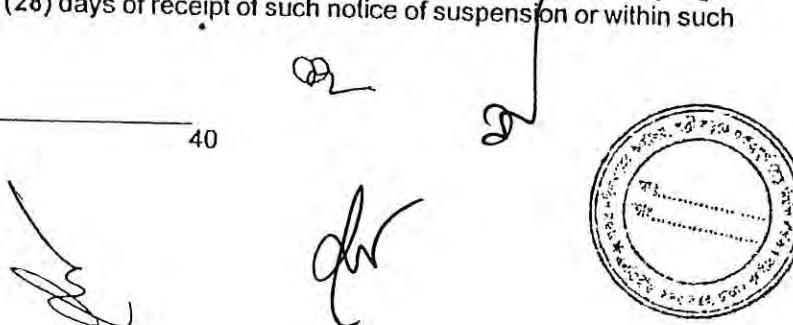
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- Client in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced.
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| <b>57. Extension of the Intended Completion Date</b> | 57.1 In the event the Consultant is unable to complete the assignment by the Intended Completion Date it may request the Client to extend the Intended Completion Date giving reasons. The Client shall extend the Intended Completion Date if the reasons given by the Consultant, including prior review where necessary, are found acceptable. The Client shall, however, decide by how much to extend the Intended Completion Date. |
| <b>58. Progress Meetings</b>                         | <p>58.1 The Client and the Consultant shall arrange progress meetings at regular intervals to review the progress of works. The meeting may review the plans for dealing with matters raised in accordance with the early warning procedure.</p> <p>58.2 The Client shall record the business of progress meetings and provide copies of the record to those attending the meeting and to the Consultant for action.</p>                |

## **H. Good Faith and Fairness**

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| <b>59. Good Faith and Fairness</b> | <p>59.1 The Parties undertake to act in good faith with respect to each other's rights under this Contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract.</p> <p>59.2 The Parties recognize that it is impractical in the Contract to provide for every contingency which may arise during the life of the Contract, and the Parties hereby agree that it is their intention that this Contract shall operate fairly as between them, and without detriment to the interest of either of them, and that, if during the term of this Contract either Party believes that this Contract is operating unfairly, the Parties will use their best efforts to agree on such action as may be necessary to remove the cause or causes of such unfairness, but no failure to agree on any action pursuant to this Clause shall give rise to a dispute subject to arbitration in accordance with GCC Clause 71.2.</p> |
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## **I. Termination and Settlement of Disputes**

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| <b>60. Termination for Default</b> | <p>60.1 The Client or the Consultant, without prejudice to any other remedy for breach of Contract, by notice of default sent to the other party, may terminate the Contract in whole or in part if the other party causes a fundamental breach of contract. In such an occurrence one party shall give not less than twenty-eight (28) days' written notice of termination to the other party.</p> <p>60.2 Fundamental breaches of the Contract shall include but shall not be limited to, the following:</p> <p>(a) If the Consultant fails to remedy a failure in the performance of their obligations hereunder, as specified in a notice of suspension pursuant to GCC Clause 54, within twenty-eight (28) days of receipt of such notice of suspension or within such</p> |
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further period as the Client may have subsequently approved in writing;

- (b) If the Consultant submits to the Client a statement which has a material effect on the rights, obligations or interests of the Client and which the Consultant knows to be false;
- (c) If the Consultant, in the judgment of the Client, has engaged in corrupt, fraudulent, collusive and coercive practices in competing for or in executing this Contract;
- (d) If the Consultant or the Client fails to comply with any final decision reached as a result of arbitration proceedings pursuant to GCC Sub Clause 71.2;
- (e) If the Client fails to pay any money due to the Consultant pursuant to this Contract and not subject to dispute pursuant to GCC Sub Clause 71.2 within forty-five (45) days after receiving written notice from the Consultant that such payment is overdue; or
- (f) If the Client is in material breach of its obligations pursuant to this Contract and has not remedied the same within forty-five (45) days (or such longer period as the Consultant may have subsequently approved in writing) following the receipt by the Client of the Consultant's notice specifying such breach.

**61. Termination for Insolvency**      61.1      The Client and the Consultant may at any time terminate the Contract by giving notice to the other party if:

- (a) the Client becomes bankrupt or otherwise insolvent;
- (b) the Consultant becomes (or, if the Consultant consist of more than one entity, if any of its Members becomes) insolvent or bankrupt or enter into any agreements with their creditors for relief of debt or take advantage of any law for the benefit of debtors or go into liquidation or receivership whether compulsory or voluntary; or
- (c) in such event, termination will be without compensation to any party, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the other party.

**62. Termination for Convenience**      62.1      The Client, by notice sent to the Consultant, may in its sole discretion and for any reason whatsoever, terminates the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Client's convenience, the extent to which performance of the Consultant under the Contract is terminated, and the date upon which such termination becomes effective.



- 63. Termination because of Force Majeure**
- 63.1 The Client and the Consultant may at any time terminate the Contract by giving notice to the other party if, as the result of Force Majeure, the Consultant is unable to perform a material portion of the Services for a period of not less than sixty (60) days.
- 64. Force Majeure**
- 64.1 For the purposes of this Contract, "Force Majeure" means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of a Party, and which makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood, epidemics, or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by Government agencies.
- 64.2 Force Majeure shall not include any:
- (a) event which is caused by the negligence or intentional action of a Party or such Party's Sub-Consultants or agents or employees, or
  - (b) event which a diligent Party could reasonably have been expected both to take into account at the time of the conclusion of this Contract, and avoid or overcome in the carrying out of its obligations hereunder.
- 64.3 Force Majeure shall not include insufficiency of funds or failure to make any payment required hereunder.
- 64.4 The Head of the Procuring Entity decides the existence of a Force Majeure that will be the basis for measures to be taken by either Party, as stated under GCC Sub Clause 66.1.
- 65. No Breach of Contract**
- 65.1 The failure of a Party to fulfil any of its obligations hereunder shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures, all with the objective of carrying out the terms and conditions of this Contract.
- 66. Measures to be Taken on Force Majeure**
- 66.1 A Party affected by an event of Force Majeure shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall take all reasonable measures to minimize the consequences of any event of Force Majeure.
- 66.2 A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible, and in any case not later than fourteen (14) days following the occurrence of such event, providing evidence of the nature and cause of such event, and

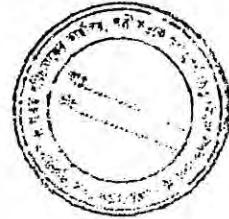


- shall similarly give written notice of the restoration of normal conditions as soon as possible.
- 66.3** Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.
- 66.4** During the period of their inability to perform the Services as a result of an event of Force Majeure, the Consultant, upon instructions by the Client, shall either:
- (a) demobilize, in which case the Consultant shall be reimbursed for additional costs they reasonably and necessarily incurred, and, if required by the Client, in reactivating the Services; or
  - (b) continue with the Services to the extent possible, in which case the Consultant shall continue to be paid under the terms of this Contract and be reimbursed for additional costs reasonably and necessarily incurred.
- 67. Cessation of Rights and Obligations**
- 67.1** Upon termination of the Contract pursuant to GCC Clause 60 to 63, or upon expiration of this Contract pursuant to GCC Clause 20, all rights and obligations of the Parties hereunder shall cease, except
- (a) such rights and obligations as may have accrued on the date of termination or expiration;
  - (b) the obligation of confidentiality set forth in GCC Clause 31;
  - (c) the Consultant's obligation to permit inspection, copying and auditing of their accounts and records set forth in GCC Clause 34; and
  - (d) any right which a Party may have under the Applicable Law.
- 68. Cessation of Services**
- 68.1** Upon termination of the Contract by notice of either Party to the other pursuant to GCC Clauses 60 to 63, the Consultant shall, immediately upon dispatch or receipt of such notice, take all necessary steps to bring the Services to a close in a prompt and orderly manner and shall make every reasonable effort to keep expenditures for this purpose to a minimum. With respect to documents prepared by the Consultant and equipment and materials furnished by the Client, the Consultant shall proceed as provided, respectively, by GCC Clause 37 and or 38.
- 69. Payment upon Termination**
- 69.1** Upon termination of this Contract pursuant to GCC Clause to 60 to 63, the Client shall make the following payments to the Consultant:
- (a) payment pursuant to GCC Clause 44 to 53 for Services satisfactorily performed prior to the effective date of termination;
  - (b) except in the case of termination pursuant to GCC Sub Clause 60.2 (a), (b), & (c) and GCC Sub Clause 61.1 (b), reimbursement of any reasonable cost incidental to the



prompt and orderly termination of the Contract, including the cost of the return travel of the Personnel and their eligible dependents.

- 70. Disputes about Events of Termination**
- 70.1 If either Party disputes whether an event specified in GCC Clause 60, 61 or 62 has occurred, such Party may, within forty-five (45) days after receipt of notice of termination from the other Party, refer the matter to arbitration pursuant to GCC Sub Clause 71.2, and this Contract shall not be terminated on account of such event except in accordance with the terms of any resulting arbitral award.
- 70.2 In the case of disagreement between the Parties as to the existence or extent of Force Majeure, the matter shall be settled according to GCC Clause 71.
- 71. Settlement of Disputes**
- 71.1 Amicable Settlement  
The Client and the Consultant shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.
- 71.2 Arbitration
- (a) If the Parties are unable to reach a settlement within twenty-eight (28) days of the first written correspondence on the matter of disagreement, then either Party may give notice to the other party of its intention to commence arbitration.
- (b) Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Services under the Contract. Arbitration proceedings shall be conducted in accordance with the Arbitration Act (Act No 1 of 2001) of Bangladesh as at present in force at the location specified in the PCC.
- (c) Notwithstanding any reference to arbitration herein
- (i) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree ; and
- (ii) the Client shall pay the Consultant any monies due the Consultant
- 71.3 The expiration of the Intended Completion Date under GCC Sub Clause 55.1 and, the initiation of settlement of disputes like amicable and arbitration under GCC Sub Clause 71.1 and 71.2 shall not be deemed a termination of the Contract.



বিষয়ঃ "পন্থী সড়কে গুরুত্বপূর্ণ সেতু নির্মাণ" শীর্ষক প্রকল্পের অধীন প্যাকেজ নংঃ CIB-S-60 এর Hydrological & Morphological Study এর কাজ সম্পন্নকরণের লক্ষ্যে পরামর্শক প্রতিষ্ঠান নির্বাচনের জন্য প্রতিটি প্যাকেজে সর্বোচ্চ নম্বর প্রাপ্ত প্রতিষ্ঠান এর সঙ্গে Contract Negotiation এর নিমিত্তে অনুষ্ঠিত "প্রস্তাব মূল্যায়ন কমিটি"র সভার কার্যবিবরণী।

সভার তারিখ ও সময়	: ৩০/০৮/২০১৭ সময়, বেলা ৮:০০ ঘটিকা।
সভার স্থান	: অতিরিক্ত প্রধান প্রকৌশলী (বাস্তবায়ন)-এর অফিস কক্ষ, এলজিইডি, সদর দপ্তর, ঢাকা।
সভায় উপস্থিত কর্মকর্তাবৃন্দ	: পরিশিষ্ট-'ক'।

অদ্য ৩০/০৮/২০১৭ তারিখ বেলা ৮:০০ ঘটিকায় জনাব মোঃ আবুল কালাম আজাদ, অতিরিক্ত প্রধান প্রকৌশলী (বাস্তবায়ন), এলজিইডি ও সভাপতি, প্রস্তাব মূল্যায়ন কমিটি'র সভাপতিত্বে তার অফিস কক্ষে "পন্থী সড়কে গুরুত্বপূর্ণ সেতু নির্মাণ" শীর্ষক প্রকল্পের অধীন প্যাকেজ নংঃ CIB-S-60 এর Hydrological & Morphological Study এর কাজ সম্পন্নকরণের জন্য পরামর্শক প্রতিষ্ঠান নির্বাচনের নিমিত্তে ইস্যুকৃত RFP এর বিপরীতে দাখিলকৃত কারিগরী ও আর্থিক প্রস্তাব মূল্যায়নে সর্বোচ্চ নম্বরপ্রাপ্ত নিম্নবর্ণিত প্রতিষ্ঠানের সঙ্গে Contract Negotiation এর জন্য "প্রস্তাব মূল্যায়ন কমিটি"র সভা অনুষ্ঠিত হয়।

প্যাকেজ নং	পরামর্শক প্রতিষ্ঠানের নাম
CIB-S-60	Joint Venture of Engineering & Planning and Consultants Ltd. and Soils and Foundations Ltd.

সভার সভাপতি সবাইকে সাদর সম্ভাষণ জানিয়ে সভার কাজ শুরু করেন এবং সংশ্লিষ্ট প্রকল্প পরিচালক ও প্রস্তাব মূল্যায়ন কমিটি'র সদস্য সচিব জনাব মোঃ আব্দুল হাফিজ-কে প্রাপ্ত প্রস্তাব মূল্যায়ন সংক্রান্ত বিষয়ে সার্বিক তথ্য সভায় উপস্থাপনের জন্য অনুরোধ করেন।

### উপস্থাপনাঃ

সভাপতির অনুমতিক্রমে প্রস্তাব মূল্যায়ন কমিটি'র সদস্য সচিব সভায় উপস্থিত সকল সদস্যকে অবহিত করেন:-

- ইস্যুকৃত RFP অনুযায়ী পরামর্শক প্রতিষ্ঠান নির্বাচন পদ্ধতি QCBS(85:15)।
- বর্ণিত প্রকল্পের আওতায় প্যাকেজ নংঃ CIB-S-60 এর Hydrological & Morphological Study এর কাজ সম্পন্নকরণের জন্য পরামর্শক প্রতিষ্ঠানের ব্যবহার নির্বাহের বিপরীতে মোট প্রাকলিত ব্যয় ১,৮২,১৪,৮৫০.০০ টাকা (ভ্যাট আইটিসহ)।
- বর্ণিত কাজ সম্পন্নকরণের জন্য পরামর্শক প্রতিষ্ঠান নির্বাচনের নিমিত্তে কারিগরী ও আর্থিক প্রস্তাব মূল্যায়নে সর্বোচ্চ নম্বরপ্রাপ্ত প্রতিষ্ঠান Joint Venture of Engineering & Planning and Consultants Ltd. and Soils and Foundations Ltd. এর সঙ্গে Contract Negotiation করার বিষয়ে প্রস্তাব মূল্যায়ন কমিটি কর্তৃক পূর্বের সভায় সুপারিশ করা হয়েছে।

### আলোচনাঃ

সভাপতি মহোদয় পরামর্শক প্রতিষ্ঠানের প্রতিনিধিগণের উপস্থিতিতে Contract Negotiation এর কাজ শুরু করেনঃ-

সভায় পরামর্শক সেবা সার্ভিসের কার্য-পরিধি (ToR), কার্য-পরিকল্পনা, পরামর্শক প্রতিষ্ঠানের লোকবল, কার্য-পদ্ধতি ও প্রত্যাশিত ফলাফলের বিভিন্ন দিক ও Payment Schedule নিয়ে প্রস্তাব মূল্যায়ন কমিটি Joint Venture of Engineering & Planning and Consultants Ltd. and Soils and Foundations Ltd. এর প্রতিনিধির সাথে বিস্তারিত আলোচনা ও পর্যালোচনা করেন এবং উভয় পক্ষ নিম্নোক্ত বিষয়ে ঐকমত্য হয়ঃ

- ১। কারিগরী প্রস্তাবে বর্ণিত জনবল এ কাজে অন্তর্ভুক্ত থাকবে।
- ২। Contract Agreement সম্পন্ন করার পর হতে ৫(পাঁচ) মাসের মধ্যে সমুদয় কাজ সম্পন্ন করতে হবে।
- ৩। Package: CIB-S-60 এর ToR এর সঙ্গে সংযুক্ত তালিকায় বর্ণিত ১৪টি ব্রীজের Hydrological & Morphological Study এর কাজ সম্পন্ন করার জন্য একমত হয়।

৪। প্রকল্প পরিচালক সভাকে অবহিত করেন যে, Hydrological & Morphological Study এর Draft Final Report দাখিলের পূর্বে উভয় পক্ষের যে কোন সুবিধাজনক সময়ে এলজিইডি'র পক্ষ থেকে মনোনীত অভিজ্ঞতা সম্পন্ন কারিগরী কর্মকর্তা/ সিনিয়র পরামর্শক সমন্বয়ে একটি যৌথ Field Visit এর ব্যবস্থা রাখার প্রস্তাব করেন। কারণ এতে এলজিইডি'র সম্পাদিত সমীক্ষা কার্যক্রমের প্রত্যাশিত ফলাফল মূল্যায়ন ও এর বাস্তব উপযোগিতা যাচাই করা সহজতর হবে।

প্রকল্প পরিচালকের উপায়টি নিয়ে সভায় বিস্তারিত আলোচনা হয় এবং ঐকমত্য হয় যে, প্রকল্প পরিচালকের সঙ্গে আলোচনা করে অযোজন অনুযায়ী পরামর্শক প্রতিষ্ঠান তাদের সমীক্ষা কার্যক্রমের Draft Final Report দাখিলের পূর্বে উভয় পক্ষের যে কোন সুবিধাজনক সময়ে এলজিইডি'র মনোনীত কারিগরী কর্মকর্তা/ সিনিয়র পরামর্শক সমন্বয়ে যৌথভাবে সেতুর প্রকল্প সাইট সরেজমিনে পরিদর্শনের ব্যবস্থা গ্রহণ করবে এবং একপ পরিদর্শনের পর্যবেক্ষণ ও সুপারিশ Draft ও Final Report এ সন্তুষ্টিপূর্ণভাবে সম্পূর্ণ করার সিদ্ধান্ত গৃহীত হয়।

৫। প্রকল্প পরিচালক সভায় Hydrological & Morphological Study এর Final Report দাখিলের সময় এর সাথে প্রথম প্রতিটি সেতুর নির্মাণ স্থলের U/S (নুন্যতম পক্ষে ২ কি.মি.) এবং D/S (নুন্যতম পক্ষে ১ কি.মি.) এর Bathematic Survey এবং Bank line Survey-র Hard Copy ও Soft Copy দাখিল করার জন্য অনুরোধ করেন। প্রকল্প পরিচালকের প্রস্তাব নিয়ে সভায় বিস্তারিত আলোচনা হয় এবং পরামর্শক প্রতিষ্ঠান এতে সম্মতি জ্ঞাপন করে।

৬। প্রকল্প পরিচালক সভায় অবহিত করেন, Hydrological & Morphological Study এর লক্ষ ফলাফল/সুপারিশের উপর ভিত্তি করে সেতু সম্মুহের অবস্থান, দৈর্ঘ্য, উচ্চতা ইত্যাদি নির্ধারিত হয় এবং তদানুযায়ী Structural Design প্রদীপ্ত হয় বিধায় সেতুসম্মুহের Design দ্রুত গুরু করার স্বার্থে নিম্নে প্রস্তাবিত সময়সূচী মোতাবেক পরামর্শক প্রতিষ্ঠান কর্তৃক Hydrological & Morphological Study এর Draft Final Report দাখিল করার প্রস্তাব করেনঃ-

ক) চুক্তি সম্পাদনের তারিখ হতে ২.৫০ (দুই মাস পন্থের দিন) মাসের মধ্যে ৫(পাঁচ)টি সেতুর রিপোর্ট দাখিল পূর্বক এ বিষয়ে পরামর্শক প্রতিষ্ঠান কর্তৃক একটি Power Point Presentation এর ব্যবস্থা গ্রহণ করা।

খ) চুক্তি সম্পাদনের তারিখ হতে ৩.৫০ (তিনি মাস পন্থের দিন) মাসের মধ্যে আরও ৫(পাঁচ)টি সেতুর রিপোর্ট দাখিল পূর্বক এ বিষয়ে পরামর্শক প্রতিষ্ঠান কর্তৃক একটি Power Point Presentation এর ব্যবস্থা গ্রহণ করা।

গ) চুক্তি সম্পাদনের তারিখ হতে ৪ (চার) মাসের মধ্যে অবশিষ্ট ৪(চার)টি সেতুর রিপোর্ট দাখিল পূর্বক এ বিষয়ে পরামর্শক প্রতিষ্ঠান কর্তৃক একটি Power Point Presentation এর ব্যবস্থা গ্রহণ করা।

এ বিষয়ে সভায় বিস্তারিত আলোচনা হয় এবং উভয়পক্ষ একমত পোষন করেন।

৭। চুক্তি সম্পাদনের তারিখ হতে ৫ (পাঁচ) মাসের মধ্যে সকল সেতুর Final Report রিপোর্ট দাখিল পূর্বক এ বিষয়ে পরামর্শক প্রতিষ্ঠান কর্তৃক একটি Power Point Presentation এর ব্যবস্থা গ্রহণ করা। এ বিষয়ে সভায় বিস্তারিত আলোচনা হয় এবং উভয়পক্ষ একমত পোষন করেন।

৮। পরামর্শক প্রতিষ্ঠানের বিপরীতে নিম্নবর্ণিত Payment Schedule অনুযায়ী বিল পরিশোধ করার বিষয়ে সভায় উপস্থিত সকল সদস্য একমত পোষন করেন।

- Inception Report:** Ten Percent (10%) of the Lump-Sum Contract Price shall be Paid Upon Submission of the Inception Report duly accepted by the Client.
- Draft Final Report:** Seventy Percent (70%) of the Lump-Sum Contract Price shall be Paid Upon Submission of the Draft Hydro-Morphological Report and the Report to be Presented by Power Point before the Panel of experts of LGED and upon duly acceptance by the Client [As the nos of bridge=14, So the payment amount of per bridge would be 5% and Payment made to the consultant as per submission of each lot (5nos, 5nos and rest 4nos)].
- Final Report:** Twenty Percent (20%) of the Lump-Sum Contract Price shall be Paid Upon Submission of the Final Report and the Report to be Presented by Power Point before the Panel of experts of LGED and duly accepted by the Client.

After Completion of the study, Total Report have to be submitted to the office of the Project Director in the form of CD.

৯। উভয় পক্ষ আলোচনাক্রমে উপরোক্ত পরামর্শক কাজের আর্থিক সংশ্লেষণের পরিমাণ নিম্নরূপ হবে মর্মে ঐকমত্য হয়ঃ

প্রস্তাবমূল্যায়ন কমিটি কর্তৃক মূল্যায়নকৃত মোট দর (ভ্যাট আইটি বাদে)	পরামর্শক কাজের Negotiated দর (ভ্যাট আইটি বাদে)	পরামর্শক কাজের Negotiated মোট দর (ভ্যাট আইটি সহ) অর্থাৎ Contract Ceiling
১,৩৬,৮০,০০০.০০	১,৩৬,৮০,০০০.০০	১,৭৮,২৫,০০০.০০

১০। পরিশেষে খসড়া চুক্তির উপর আলোচনাপূর্বক উহা চূড়ান্ত করা হয়।

(টাকায়)

২ ৫ ১ ৩ ৪ ৫ ৬ ৭ ৮ ৯ ১০

সুপারিশ ৪

Contract Negotiation সভায় গৃহীত সমবোতার ভিত্তিতে বর্ণিত প্রকল্পের আওতায় Package: CIB-S-60 এ ১৪টি  
 শ্রীজের Hydrological & Morphological Study এর কাজ সম্পন্ন করণের জন্য কমিটি Joint Venture of Engineering &  
 Planning and Consultants Ltd. and Soils and Foundations Ltd. এর সঙ্গে মোট ১,৯৮,২৫,০০০.০০ (এক কোটি  
 আঠাশের লক্ষ পঁচিশ হাজার) টাকায় (ভ্যাট ও আইটিসহ) চুক্তি অনুমোদনের জন্য “প্রস্তাব মূল্যায়ন কমিটি” সর্বসম্মতিক্রমে সুপারিশ  
 করেন।

সভায় আর কোন আলোচনা না থাকায় সভাপতি ঘৃণাদ্য শকলকে ধন্যবাদ জানিয়ে সভার কাজ শেষ করেন।

 John D. Sponaugle  
30 Oct 2013

(Md. Abdul Wadud Bhuiyan)  
Director, EPC Ltd.

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(সালমা শহীদ)

প্রকল্প পরিচালক (RERMP-2)

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### সদস্য, প্রস্তাব মূল্যায়ন কমিটি।

৩০/১৬/২০১৭  
(মোঃ গোলাম ইয়াজিনুল্লাহ)

ବ୍ୟାପକ ଦୋଷାବସ୍ଥାର ହଜାରିଗାନ୍ତିମା

16

সদস্য প্রস্তাব মন্তব্যন করিব।

৩০/৮/১৯৭৯  
(মোঃ শফিউল আজগা)  
নির্বাচনী পক্ষোবলী (সম্পর্ক) দায়িত্বে বিভাগ

16

সদস্য প্রস্তাব মন্তব্যন কমিটি।

(এ.কে.এম. শরিফুল ইসলাম)  
নির্বাহী প্রকৌশলী (BWDB) জরিপ ও সমীক্ষা বিভাগ

ନିର୍ବାହୀ ପ୍ରକୌଶଳୀ (BWDB), ଜରିପ ଓ ସମୀକ୍ଷା ବିଭାଗ

5

## সদস্য, প্রস্তাব মূল্যায়নকমিটি।

(মোঃ আল্লা হাফিজ )

ପ୍ରକଳ୍ପ ପରିଚାଲକ, ପଣ୍ଡି ସନ୍ଦର୍ଭକେନ୍ଦ୍ରପୂର୍ଣ୍ଣ ସେତୁ ନିର୍ମାଣ ପ୍ରକଳ୍ପ

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সদস্য-সচিব, প্রস্তাব মূল্যায়ন কমিটি।

তত্ত্বাবধায়ক প্রকৌশলী (রক্ষণাবেক্ষণ),

## তত্ত্বাবধায়ক প্রকৌশলী (রক্ষণাবেক্ষণ),

18

সদস্য প্রস্তাব মন্তব্যন করিব।

মাঃ আবুল কালাম আজিম (১৯৭৪)  
ক্ষেপণালি প্রকৌশলী (বাস্তবায়ন)

### অতিরিক্ত প্রধান প্রকৌশলী (বাস্তবায়ন)

12

## সভাপতি, প্রস্তাব মূল্যায়ন কমিটি |

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার  
স্থানীয় সরকার প্রকৌশল অধিদপ্তর  
“পল্টী সড়কে গুরুত্বপূর্ণ সেতু নির্মাণ” শীর্ষক প্রকল্প  
আগারগাঁও, শেরেবাংলা নগর  
ঢাকা-১২০৭।  
[www.lged.gov.bd](http://www.lged.gov.bd)

উন্নয়নের গমতন্ত্র  
শেখ হাসিনার মূলমন্ত্র

স্মারকনং-এলজিইডি/পিডি(CIB)/S-০৩/২০১৭/টেক্স-

তারিখঃ ১৯/০৮/২০১৭

প্রতি

Md. Abdul Wadud Bhuiyan  
Director, Engineering & Planning Consultants Ltd.  
Authorized Signatory,  
Joint Venture of Engineering & Planning Consultants Ltd.  
and Soils and Foundations Ltd.  
7/4, Block-A, Lalmatia, Dhaka-1207.

বিষয়ঃ Notification of Award (NOA) ইস্যুকরণ প্রসঙ্গে।

Received

Abdun

১৯-০৮-২০১৭

Md. Asiqur Rahman  
Junior Design Engineer  
Soils and Foundations Limited  
01840-317141

সূচোঁ আপনার প্রতিষ্ঠান কর্তৃক গত ১৫-০৬-২০১৭ তারিখে দাখিলকৃত প্রস্তাব মোতাবেক।

উপর্যুক্ত বিষয় এবং সূচোঁ প্রেক্ষিতে জানানো যাচ্ছে যে, এলজিইডি-র আওতায় বাস্তবায়নবৈন “পল্টী সড়কে গুরুত্বপূর্ণ সেতু নির্মাণ” শীর্ষক প্রকল্পের অধীন Package:CIB.S-৫৮ এর ১৪টি ত্রীজের Hydrological & Morphological Study এর কাজ সম্পাদকরণের জন্য কারিগরী প্ররম্পরক হিসেবে নিয়োগের জন্য আপনার প্রতিষ্ঠান কর্তৃক ১৫-০৬-২০১৭ তারিখে দাখিলকৃত কারিগরী ও আর্থিক প্রস্তাব “প্রস্তাব মূল্যায়ন কমিটি” কর্তৃক মূল্যায়নে সর্বোচ্চ নম্বর পেয়ে উন্নীত হয়েছে।

তৎপ্রেক্ষিতে ৩০/০৮/২০১৭ তারিখে আপনার প্রতিষ্ঠানের সাথে Contract Negotiation সংক্রান্ত বিষয়ে অনুষ্ঠিত “প্রস্তাব মূল্যায়ন কমিটি”র সভায় সুপারিশকৃত অর্থ ভ্যাট ও আইটিসহ মোট ১,৭৮,২৫,০০০.০০ (এক কোটি আড়ান্তুর লক্ষ পঞ্চিশ হাজার) টাকা নির্ধারণ করে Package:CIB.S-৫৮ এর ১৪টি ত্রীজের Hydrological & Morphological Study এর কাজ সহ অন্যান্য কাজ সম্পাদনের জন্য আপনার প্রতিষ্ঠানকে নিয়োগের প্রত্বাব যথাযথ কর্তৃপক্ষ কর্তৃক সদয় অনুমোদিত হয়েছে।

এমতাবস্থায়, আগামী ২৭/০৯/২০১৭ তারিখ অথবা এর পূর্বে যে কোন সুবিধাজনক সময়ে নিম্নস্বাক্ষরকারীর সাথে এতদ্সংক্রান্তে “Contract Agreement” সম্পাদনের জন্য আপনাকে অনুরোধ করা হলো।

Signature

(মোঃ আল্লা হাফিজ) চৰা/১৬৭

প্রকল্প পরিচালক

ফোনঃ ০২-৯১২৬৪২৬

ই-মেইলঃ pd.cibir@lged.gov.bd

অনুলিপিঃ

- ১। প্রধান প্রকৌশলী, স্থানীয় সরকার প্রকৌশল অধিদপ্তর, ঢাকা।
- ২। অতিরিক্ত প্রধান প্রকৌশলী (বাস্তবায়ন), স্থানীয় সরকার প্রকৌশল অধিদপ্তর, ঢাকা।



## LOCAL GOVERNMENT ENGINEERING DEPARTMENT

Local Government Division

Ministry of Local Government, Rural Development & Cooperatives



**Consultancy Services for Hydrological and Morphological  
Study of 14 Bridges over Different River at Naogaon, Dinajpur,  
Lalmonirhat, Pabna, Natore, Comilla, Feni, Chittagong and  
Cox's Bazar Districts (Package No. CIB-S-60).**

## FINANCIAL PROPOSAL

*(Handwritten signatures)*

Submitted by:

A Joint Venture of:



**ENGINEERING & PLANNING CONSULTANTS LTD.**

7/4, Block-A, Lalmatia, Dhaka-1207, Bangladesh

Tel: 8110221, 9113772, 9129904, Fax: 880-2-8114154

Email: [epc@epc-bd.com](mailto:epc@epc-bd.com), Website: [www.epc-consultants.org](http://www.epc-consultants.org)

and



*Soils and Foundations Ltd.*

25/13C, Block-C, Tajmohal Road, Mohammadpur, Dhaka-1207, Bangladesh

Tel: +88 029 133089, Fax: +88 029 133089,

E-mail: [soilsnf@yahoo.com](mailto:soilsnf@yahoo.com)

June 2017

## FORM 5B1 FINANCIAL PROPOSAL SUBMISSION FORM

To

**The Project Director**

"Construction of Important Bridges on Rural Roads" Project, LGED,  
LGED Bhaban (Level-09), Agargaon,  
Sher-e-Bangla Nagar, Dhaka-1207,  
Bangladesh.

Dhaka, June 14, 2017

Dear Sirs:

We, the undersigned, offer to provide the consulting services for *Hydrological and Morphological Study of 14 Bridges over Different River at Naogaon, Dinajpur, Lalmonirhat, Pabna, Natore, Comilla, Feni, Chittagong, and Cox's Bazar Districts (Package No. CIB-S-60)* in accordance with your Request for Proposal dated **08 May 2017** and our Technical Proposal. Our attached Financial Proposal is for the sum of **Tk. 13,640,000.00 (Thirteen million six hundred forty thousand Bangladesh Taka only)**. This amount is exclusive of local taxes, which we have estimated at **Tk. 3,682,800.00 (Three million six hundred eighty two thousand eight hundred Bangladesh Taka only)** and which shall be discussed during negotiations and shall be added to the above amount for determining the Contract Price.

Our Financial Proposal shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Proposal, i.e. before the date indicated in ITC Sub Clause 30.1 of the Proposal Data Sheet.

No Commissions or Gratuities have been paid or are to be paid by us to agents relating to this Proposal and Contract execution, if we are awarded the Contract.

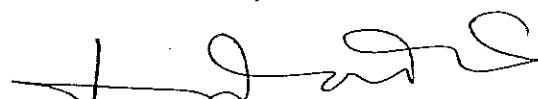
In accordance with GCC Sub Clause 34, we acknowledge and accept the Client's right to inspect and audit all records relating to our proposal irrespective of whether we enter into a Contract with the Client as result of this Proposal.

We also declare that the Government of Bangladesh has not declared us or any Sub-Consultants for any part of the Contract, ineligible on charges of engaging in corrupt, fraudulent, collusive, or coercive practices. We furthermore, pledge not to indulge in such practices in competing for or in executing the Contract, and are aware of the relevant provisions of the Proposal Document as stated under ITC Clause 4.

We understand you are not bound to accept any Proposal you receive.

Signed

In the capacity of:



Md. Abdul Wadud Bhuiyan, Director, Engineering & Planning Consultants Ltd.  
Duly authorized to sign the proposal on behalf of the Applicant  
Date: June 14, 2017

MD. ABDUL WADUD BHUIYAN  
Director  
Engineering & Planning Consultants Ltd.  
7/4, Block-A, Lalmatia, Dhaka-1207.



**FINANCIAL PROPOSAL**

Consultancy Services for Hydrological and Morphological Study of 14 Bridges over Different River at Naogaon, Dinajpur, Lalmonirhat, Pabna, Natore, Comilla, Feni, Chittagong, and Cox's Bazar Districts (Package No. CIB-S-60).

**Form 5B2 : Summary of Costs**

Cost Component	Costs (Taka)
Staff Remuneration	9,150,000.00
Reimbursable Expenses	4,490,000.00
<b>TOTAL:</b>	<b>13,640,000.00</b>
Local Taxes: IT & VAT (12%+15%=27%)	3,682,800.00
<b>TOTAL (Including Tax &amp; VAT):</b>	<b>17,322,800.00</b>

M. ABDUL WAJID SHUFTAN  
CHIEF  
Engineering & Planning Consultant Ltd.  
714 (Opp. I.C.I. Circle), Dhaka-1205.

**FINANCIAL PROPOSAL**

Consultancy Services for Hydrological and Morphological Study of 14 Bridges over Different River at Naogaon, Dinajpur, Lalmonirhat, Pabna, Natore, Comilla, Feni, Chittagong, and Cox's Bazar Districts (Package No. CIB-S-60).

**Form 5B3 : Breakdown of Staff Remuneration**

Sl. No.	Name	Position	Staff-month Rate (Taka)	Input (Staff-months)	Sub Cost for each Staff (Staff-month rate x input) (Taka)
1	Muhammad Moinul Husain	Team Leader cum Hydrological Design Specialist	250,000.00	5	1,250,000.00
2	Md. Ansar Ali Mian	Senior Hydrologist	200,000.00	5	1,000,000.00
3	Sarder Imtiaz Ahmed	Modeling Engineer-1	200,000.00	5	1,000,000.00
4	Tanvir Ahmed	Modeling Engineer-2	200,000.00	5	1,000,000.00
5	Jalal Ahmed	Morphologist	200,000.00	4	800,000.00
6	Md. Akhtar Husain	Hydraulic Engineering Specialist	200,000.00	4	800,000.00
7	Md. Jaseem Uddin	Hydraulic Modeler	200,000.00	4	800,000.00
8	Md. Atikur Rahman	Structural Engineer-1	200,000.00	4	800,000.00
9	Md. Abdul Alim	Structural Engineer-2	200,000.00	4	800,000.00
10	Bibi Khadiza	GIS Specialist-1	150,000.00	3	450,000.00
11	Md. Mohirul Islam Mohir	GIS Specialist-2	150,000.00	3	450,000.00
<b>TOTAL:</b>			<b>46</b>		<b>9,150,000.00</b>

14/6/2017

**FINANCIAL PROPOSAL**

Consultancy Services for Hydrological and Morphological Study of 14 Bridges over Different River at Naogaon, Dinajpur, Lalmonirhat, Pabna, Natore, Comilla, Feni, Chittagong, and Cox's Bazar Districts (Package No. CIB-S-60).

**Form 5B4 : Breakdown of Reimbursable Expenses**

Sl. No.	Description	Unit	Unit Cost (Taka)	Quantity	Sub-Cost (Unit cost x Quantity) (Taka)
1	Per Diem	Day	2,000	70	140,000
2	<b>Travel Expense:</b>				
i. Filed Visit by land transport	Trip	10,000	14		140,000
	Month	100,000	5		500,000
3	Communication Cost	Month	5,000	5	25,000
4	<b>Rental of Office Equipment:</b>				
Use of Software, Computer with Accessories, printer, photocopier, scanner.		Month	30,000	5	150,000
5	<b>Rental of Office Space &amp; Utilities:</b>				
i. Office Rent (Dhaka)	Month	20,000	5		100,000
	Month	15,000	5		75,000
6	Topo, Bathematic Survey & Sub-Soil Investigation of Large Bridges (200m & above)	each	60,000	6	360,000
7	Topo, Bathematic Survey & Sub-Soil Investigation of Small & Medium Bridges (up-to 200m )	each	50,000	8	400,000
8	Laboratory Tests and other Technical Services for fourteen Bridges	each	10,000	14	140,000
9	Hydraulic/ Hydro-morphological Modeling	each	75,000	14	1,050,000
10	Office Supplies	month	10,000	5	50,000
11	Use of Computer Software	month	20,000	5	100,000
12	Stationeries and Computer consumables	month	20,000	5	100,000
13	<b>Drafting, reproduction of reports:</b>				
i. Inception report	Copy	5,000	3		15,000
	Copy	35,000	5		175,000
	Copy	50,000	3		150,000
14	<b>Administrative Support Staff:</b>				
i. Office Manager/ Accountant	month	30,000	5		150,000
	month	30,000	5		150,000
	month	30,000	8		240,000
	month	45,000	4		180,000
	month	20,000	5		100,000
<b>TOTAL:</b>					<b>4,490,000</b>

*[Signature]*

*14/08/2017*

MR. ABDUL WADUD BHUIYAN  
Director  
Engineering & Planning Consultants Ltd  
7/4, Block-A, Lalmatia, Dhaka-1207

**FORM 5A5 :**  
**Work Schedule**

Consultancy Services for Hydrological and Morphological Study of 14 Bridges over Different River at Naogaon, Dinajpur, Lalmonirhat, Pabna, Natore, Comilla, Feni, Chittagong, and Cox's Bazar Districts (Package No. CIB-S-60)

Item No.	Task Description	Activities					Period in Months
		1	2	3	4	5	
<b>ACTIVITY 100 MOBILIZATION AND START-UP ACTIVITIES</b>							
Task 101	Negotiations and Signing of Contract						
Task 102	Mobilization and Office Establishment						
Task 103	Start-Up Meetings with the Client (LGED)						
<b>ACTIVITY 200 ENGINEERING SURVEYS AND INVESTIGATIONS</b>							
Task 201	Identification of Location of Bridges	█	█				
Task 202	Topographic and Bathymetric Data Collection	█	█				
Task 203	Hydrological Data Collection	█	█				
Task 204	Satellite Image Analysis	█	█				
Task 205	Hydrologic Analysis & Computation	█	█				
Task 206	Development of two dimensional morphological model & calibration.	█	█				
Task 207	Determination of Design Parameters(Hydraulic & Structural)	█	█				
Task 208	Hydraulic Design	█	█				
Task 209	Structural Design.	█	█				
Task 210	Prediction of River Erosion & Design parameters for RTWs.	█	█				
Task 211	Design of River Training Works (RTWs).	█	█				
Task 212	Technical Specification of RTWs.	█	█				
Task 213	Cost Estimation	█	█				
<b>ACTIVITY 300 REPORTS AND DELIVERABLES</b>							
Task 301	Inception Report						
Task 302	Draft Final Report						
Task 303	Final Report						

## FORM 5A6

### TEAM COMPOSITION AND TASK ASSIGNMENTS

Sl. No.	Name of Staff	Firm/ Organization	Area of Expertise	Position Assigned	Task Assigned
1.	Muhammad Moinul Husain	EPC	Senior expert in water resources, hydraulic, hydro-morphology, hydro-dynamic modeling, reporting, coordination & manage these tasks.	Team Leader cum Hydrological Design Specialist	<ul style="list-style-type: none"> <li>• Take full responsibility for all aspects of planning, liaison and reporting;</li> <li>• Guide and supervise the study team in carrying out the hydrological, hydraulic, morphological, social and design related activities;</li> <li>• Coordinate the study activities;</li> <li>• Take necessary steps to collect existing data from external sources;</li> <li>• Analyze and interpret the study results for proper designing of bridges;</li> <li>• Contribute in preparing reports and submitting to the LGED authority</li> </ul>
2.	Md. Ansar Ali Mian	EPC	Expertise and wide experience and knowledge in hydrology and related activities.	Sr. Hydrologist	<ul style="list-style-type: none"> <li>• Establish baseline hydrological condition in the project area;</li> <li>• Identify hydrological factors that may influence the hydrology and hydraulics in the project area;</li> <li>• Establish likely hydrological scenarios;</li> <li>• Conduct navigational survey;</li> <li>• Establish vertical and horizontal clearance for the proposed bridge;</li> <li>• Preparation of different reports as required for the proposed study;</li> <li>• Attend Interaction meeting with LGED</li> </ul>
3.	Sarder Imtiaz Ahmed	S&F	Wide experience in hydro-dynamic/ modeling with data calibration, validation.	Modeling Engineer-1	<ul style="list-style-type: none"> <li>• Modeling</li> <li>• Engineer-1</li> </ul>
4.	Tanvir Ahmed	SPMC	Wide experience in hydro-dynamic/ modeling with data calibration, validation.	Modeling Engineer-2	<ul style="list-style-type: none"> <li>• Modeling</li> <li>• Engineer-2</li> </ul>



Sl. No.	Name of Staff	Firm/ Organization	Area of Expertise	Position Assigned	Task Assigned
5.	Jaijal Ahmed	EPC	Expertise and wide experience and knowledge in morphology, hydraulics or hydro-dynamic modeling, morphology activities.	Morphologist	<ul style="list-style-type: none"> <li>• Analyze and interpret historical data as well as surveyed data of the river;</li> <li>• Carry out hydrodynamic and morphological analysis;</li> <li>• Analyze the results and establish morphological characteristics of the river and identification of erosion vulnerable area;</li> <li>• Assess the need of river training work;</li> <li>• Assist team leader in coordinating the study;</li> <li>• Preparation of different reports as required for the proposed study;</li> <li>• Miscellaneous task as and when required;</li> <li>• Carry out mathematical modeling;</li> <li>• Attend meeting as and when required by the designated representative of LGED.</li> </ul>
6.	Md. Akhtar Husain	EPC	Expertise and wide experience and knowledge in morphology, hydraulics or hydro-dynamic modeling, morphology activities.	Hydraulic Engineering Specialist	<ul style="list-style-type: none"> <li>• Hydraulic Modeler</li> </ul>
7.	Md. Jaseem Uddin	S&F	Expertise and wide experience and knowledge in morphology, hydraulics or hydro-dynamic modeling, morphology activities.	Hydraulic Modeler	<ul style="list-style-type: none"> <li>• Structural Engineer-1</li> </ul>
8.	Md. Atikur Rahman	S&F	Design of hydraulic structure and river protective works.	Structural Engineer-1	<ul style="list-style-type: none"> <li>• Determination of design parameters for the bridges and the river training works.</li> </ul>

TECHNICAL ..JPOSAL  
 Consultancy Services for Hydrological and Morphological Study of 14 Bridges over Different River at  
 Naogaon, Dinajpur, Lalmonirhat, Pabna, Natore, Comilla, Feni, Chittagong, and Cox's Bazar Districts  
 (Package No. C/B-S-60).

Team Composition and Task Assignments

Team 5A6:

Sl. No.	Name of Staff	Firm/ Organization	Area of Expertise	Position Assigned	Task Assigned
9.	Md. Abdul Alim	S&F	Design of hydraulic structure and river protective works.	Structural Engineer-2	<ul style="list-style-type: none"> <li>• Preparation of hydraulic design of the bridges including length of bridge height of bridge and scour levels at bridge piers and abutments.</li> <li>• Preparation of river training work layout plan, exact location with GPS co-ordinate and extent of the required RTW for bridges;</li> <li>• Maximum depth of scour and flow velocity at or along the river training work;</li> <li>• Preparation of river training work layout plan, exact location with GPS co-ordinate and extent of the required RTW for bridges;</li> <li>• Provide adequate x-section showing guide bund, stop protection, toe line, apron with alternative construction materials;</li> <li>• Provide detailed design, cost estimate and technical specification of river training work</li> <li>• Miscellaneous task as and when required.</li> </ul>
10.	Bibi Khadiza	EPC	Widely experienced and expertise in RS/GIS, especially in climate change related works.	GIS Specialist-1	<ul style="list-style-type: none"> <li>• Processing satellite images</li> <li>• Identification of bank-line shifting and plan form change using satellite Images</li> </ul>
11.	Md. Mohirul Islam Mohir	S&F	Widely experienced and expertise in RS/GIS, especially in climate change related works.	GIS Specialist-2	<ul style="list-style-type: none"> <li>• GIS analysis &amp; riverbank locations;</li> <li>• Preparation of different reports as required for the proposed study;</li> <li>• Miscellaneous task as and when required.</li> </ul>

**FORM 5A7  
STAFFING SCHEDULE**

Consultancy Services for Hydrological and Morphological Study of 14 Bridges over Different River at Naogaon, Dinajpur, Lalmonirhat, Pabna, Natore, Comilla , Feni, Chittagong, and Cox 's Bazar Districts (Package No. CIB-S-60).

**TECHNICAL PROPOSAL**

*Consultancy Services for Hydrological and Morphological Study of 14 Bridges over Different River at Naogaon, Dinajpur, Lalmonirhat, Pabna, Natore, Comilla, Feni, Chittagong, and Cox's Bazar Districts (Package No. CIB-S-60).*

**Form 5A8:**  
*Curriculum Vitae (CV) for Proposed Professional Staff*

## **FORM 5A8**

### **CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF**

#### **8.1 List of Proposed Professional Staff**

<b>CV No.</b>	<b>Name of Staff</b>	<b>Firm/ Organization</b>	<b>Position Assigned</b>
1.	Muhammad Moinul Husain	EPC	Team Leader cum Hydrological Design Specialist
2.	Md. Ansar Ali Mian	EPC	Sr. Hydrologist
3.	Sarder Imtiaz Ahmed	S&F	Modeling Engineer-1
4.	Tanvir Ahmed	SPMC	Modeling Engineer-2
5.	Jalal Ahmed	EPC	Morphologist
6.	Md. Akhtar Husain	EPC	Hydraulic Engineering Specialist
7.	Md. Jaseem Uddin	S&F	Hydraulic Modeler
8.	Md. Atikur Rahman	S&F	Structural Engineer-1
9.	Md. Abdul Alim	S&F	Structural Engineer-2
10.	Bibi Khadiza	EPC	GIS Specialist-1
11.	Md. Mohirul Islam Mohir	S&F	GIS Specialist-2

#### **8.2 Curriculum Vitae (CV) for Proposed Professional Staff**

Curriculum Vitae (CV) for Proposed Professional Staff are prepared as per Form 5A8 of RFP and provided hereunder.

**CV No. 1**

---

Team Leader cum Hydrological Design  
Specialist

**Muhammad Moinul Husain**

2

dr dr

## FORM 5A8 : CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

Name of the Consultant	Engineering and Planning Consultants Ltd. (EPC)		
RFP IDENTIFICATION NO.	CIB-S-60		
Name of the Client	Local Government Engineering Department (LGED)		
1. PROPOSED POSITION FOR THIS PROJECT	Team Leader cum Hydrological Design Specialist		
2. NAME OF PERSON	Muhammad Moinul Husain, P.Eng		
3. DATE OF BIRTH	November 9, 1947		
4. NATIONALITY	Bangladeshi		
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	<ul style="list-style-type: none"> <li>• Life Fellow, Institution of Engineers, Bangladesh and also a member of the Bangladesh Water Partnership (BWP)</li> <li>• Registered Professional Engineer (P. Eng.) by Bangladesh Professional Engineers Registration Board.</li> </ul>		
6. EDUCATION	<ul style="list-style-type: none"> <li>• M. Engineering (Water Resources), 1998 (BUET)</li> <li>• B.Sc. Engineering (Civil), 1st. Class, BUET, Dhaka, 1969</li> </ul>		
7. OTHER TRAINING	<ul style="list-style-type: none"> <li>• Attended a directed course of study at the Asian Institute of Technology (AIT) Bangkok from September'78 to April'79 in the field of Hydraulic and Coastal Engineering</li> <li>• Attended a Regional Seminar on Project Implementation and Administration in ADB head quarter Manila from 10th May, 1999 to 21st. May 1999.</li> <li>• Attended 3 months training course at APTECH CENTRE, Banani on Computers Fundamentals, MS Work, MS Excel, Power Point Presentation and Internet use etc.</li> </ul>		
8. LANGUAGE AND DEGREE OF PROFICIENCY	Language	Speaking	Reading
	Bengali	Excellent	Excellent
	English	Excellent	Excellent
9. COUNTRIES OF WORK EXPERIENCE	Bangladesh and Iraq		
10. EMPLOYMENT RECORD	<p><b>EMPLOYER:</b> Engineering &amp; Planning Consultants Ltd.</p> <p><b>FROM MARCH 2010 TO DATE</b></p> <p><b>Sr. Construction Monitoring &amp; Quality Control Specialist, Improved Water Management in BWDB Schemes (Contract Package No. BWDB/S-1) under WB funded Water Management Improvement Project.</b></p> <p>Responsible for:</p> <ul style="list-style-type: none"> <li>▪ All Construction Monitoring of the works in FCDFCDI schemes including Quality Control aspects of civil works, structures and embankments etc.;</li> <li>▪ Prepared monitoring &amp; quality control plan.</li> <li>▪ Constantly visit and monitor the existing works in site;</li> <li>▪ Collect all data relating quality of the materials used in site;</li> <li>▪ Ensure the quality of existing types of protection works with respect of durability, stability, cost, suitability and availability of local materials as well as use of imported materials;</li> <li>▪ Recommend for each situation the most appropriate alternative and make corresponding cost estimate;</li> <li>▪ Organize engineering surveys and geotechnical investigation for construction programme;</li> <li>▪ Arranged hydro-morphological study and investigation, as and when required;</li> <li>▪ Arrange soil investigations in existing or new borrow areas where earth will be used for embankment construction;</li> <li>▪ Strictly monitor the works as per detailed design and tender documents prepared.</li> </ul>		

- Work with procurement activities starting from invitation of tender upto award of contract.
- Certify contractors payment.
- Worked as a counter part of team member of feasibility team for environmental impact assessment and social impact study.

**EMPLOYER:**  
Bangladesh Water  
Development Board. (BWDB).

**FROM AUGUST 2008 TO FEBRUARY 2009**

**Individual Consultant, Water Manage Improvement Project (WMIP),**  
Responsible for:

- BWDB Reviewed the damage assessment list prepared by BWDB of 2007 flood.
- Assessed the probable cost to replenish the damage through field verification, spot survey, discussion with field officials, existing design etc.
- Consulted various study reports on impact of damage caused by 2007 flood. Selected the eligible scheme following IDA guideline and selection criteria. Prioritize the list. Reviewed design, estimate.
- Prepared procurement plan. Helped BWDB in preparation of bid document, evaluation of bid and finally award of contract. Attended various meetings with BWDB, World Bank, Field Officials etc. Presented report in various forum.

**EMPLOYER:**  
DevConsultants Ltd

**FROM FEBRUARY 2008 TO JULY 2008**

**Team Leader, District Water Resources Assessment (DWRA)**  
Responsible for:

- Worked as a Team Leader of District Water Resources Assessment (DWRA) for various districts under Integrated Water Resources Management (IWRM) unit of Local Government Engineering Department (LGED).
- Co-ordinated the activities of different multi-disciplinary professional to complete the study and prepared final report. Problems and possibilities related to water resources management were assessed through participatory approach and stakeholders consultation. The impact of similar earlier intervention was consulted. Water resources development trend and resource availability were analyzed from available data and records. Appropriate strategies for water management was delineated. Analyzed the long list of proposals received through consultation process and identified potential intervention/sub-projects for water management of the district. The final report was prepared and presented in different forum. Maintained liaison with LGED, BWDB and other organization. Attended in various meeting.

**EMPLOYER:**  
DHV – Haskoning and  
Associate

**FROM MAY 2007 TO JANUARY 2008**

**Planning Engineer**

- Worked as a planning engineers in Estuary Development Programme (EDP), a project of Ministry of water resources funded by Netherlands govt. Worked for identification of potential site for cross-dam for land reclamation and erosion control measure in the Estuary. After detail investigation of morphological behavior, erosion sedimentation process and analysis of the data and study of the impact assessment of earlier intervention in the estuary. The optimum one will be selected for future investment project. Worked for preparation of work plan for on Job training to enhance in house capability of BWDB for survey and investigation design and planning for intervention for land reclamation and erosion control measure.

**EMPLOYER:**  
Bangladesh Water  
Development Board. (BWDB).

**FROM JANUARY 2006 TO SEPTEMBER 2006**

**Deputy Team Leader (Individual Consultant)**

- Worked as an individual consultant in the capacity of Deputy Team Leader for the feasibility study for protection of Sharshins Darbar Sharif Complex and Jammudwip & Brahankathi area from the erosion of Sandhay river in the district of Perojpur & Barisal. Helped the Director Planning1, BWDB who acted as a Team Leader to carry out the study to formulate a sustainable plan for protection of the said area. Analyzed the hydrological morphological data, sediment transport data to select an optimal plan for protection. Carried out public consultation to incorporate their views and suggestion in the planning process. Kept liaison with different BWDB offices, other organization working in the area, upazila officials during the course of the

study. Carried out the Environmental impact assessment and social impact assessment of the project. Presented the report in different forums to obtain their suggestion & finally incorporate them in the report. Submitted the final report which has been duly approved by BWDB. Prepared design an cost estimate for future investment project.

**EMPLOYER:**  
Engineering & Planning  
Consultants Ltd.

**FROM DECEMBER 2004 TO DECEMBER 2005**

**Consultant,**  
**Responsible for:**

- Providing advisory services for preparation of project proposal and professional services to the technical personnel in formulating option plans for water resources development components and selection of optimum ones supported with hydrological, hydraulic and other technical parameters. In preparing the plan, impact of similar intervention in nearby hydrological region was considered.

**EMPLOYER:**  
Bangladesh Water  
Development Board (BWDB).

**FROM FEBRUARY 2004 TO NOVEMBER 2004**

**Additional Director General (O&M), As a head of the O&M wing,**

- Looked after the O&M activities of the completed projects and also the on going project of BWDB in the Southern, South Western, North Western and Northern Zones of Bangladesh, worked in operational zing the O&M activities in the holistic approach of Integrated Water Resources Management (IWRM) focusing on co-ordinated development and management of water with due regard to all its uses and users as outlined in the National Water Policy (NWPo).
- Worked for reforming of BWDB for institutional improvement/strengthening of the organization under a Twinning Arrangement with the Netherlands Govt. Monitored the activities of PPTA Study Team for STIFPP-II and South West Area Integrated Water Management Project (SWAIWMP).
- Reviewed an monitored the impact assessment study of various completed project prepared by consultant and in house professionals. Reviewed the monitoring and evaluation report of ADP work after completion of work in each financial year.
- Administered the implementation activities starting form preparation of estimate, preparation of bidding documents, tendering processes for procurements of works, as per approved guidelines where applicable, supervision of works for quality control, monitoring of progress of works for timely implementation as per design specification, financial management etc.

**FROM FEBRUARY 2003 TO JANUARY 2004**

**Additional Director General (Planning).**

- Co-ordinated the micro-level planning activities including the strategic planning and long term planning of the organization based on its mandate and vision. Monitored activities for formulation and preparation of all planning documents for BWDB projects including environmental studies. Processed requests for financial assistance from various sources including liaison with MoWR, Planning Commission, Donors and other agencies.
- Led a Team of highly qualified multi disciplinary professionals of the organization in preparing impact evaluation report of Karnaphuli irrigation project, Meghna Donagoda irrigation project, North Bengal Tubewell project and Teesta Barrage project phase-1.
- Monitored the procurement activities for recruitment of consultants following GOB guideline and donor's guidelines where applicable. Monitored the design and planning works of infrastructures included in the ADP of BWDB. Supervised the feasibility study works of various FCDI Projects by BWDB in-house people and also by consultants.

**FROM NOVEMBER 2000 TO FEBRUARY 2003**

**Project Director, IDA financed River Bank Protection Project (RBPP)/Chief Engineer of BWDB**

**Responsible for:-**

- Implementation of two International Contracts (FIDIC) B1 & B2
- The Contract B1 was for Serajong Hard Point.

- The Contract B2 was for Sariakandi and Mathurapra hard point and other allied works.
- Monitored the procurement process, quality assurance activity.
- Monitored the work of Resettlement Action Plan (RAP).
- Co-ordinated the activities of the contractors, consultants, donors, line Ministry and ERD
- Monitored the morphological study undertaken by Institute of Water Modeling (IWM) to see the impact of construction of hard point in Jamuna river.
- Overview the erosion and sedimentation process in the Jamuna river including river bank protection of the **Jamuna Multipurpose Bridge Project (JMBP)** to take necessary protection measure as when deemed necessary.
- Monitored and supervised the preparation of impact assessment report of River Bank Protection Project (RBPP) prepared jointly by BWDB and center for Environmental and Geographical information services (CEGIS).

**Zonal Chief Engineer** of Dhaka and Rajshahi.

Responsible for:

- Implementation of a most important urban flood protection project like, Dhaka Integrated Flood Protection Project (DFIPP), Command Area Development Project (CAD) of Pabna Irrigation and Meghna Dhonagoda Irrigation Project, Town Protection and (FCDI) projects in greater Dhaka, Mymensing, Rajshahi and Pabna district.
- Monitored the implementation activates starting from project identification preparation of estimate, preparation of bidding documents, invitation and evaluation of tender, award of contract etc. following GOB guideline and Donors guideline where applicable supervised the construction activities for quality control, timely completion as per design and specification and within approved budget.

**EMPLOYER:**

Bangladesh Water Development Board (BWDB)

**FROM SEPTEMBER 1998 TO NOVEMBER 2000**

**Project Director / Team leader**

- Project Director of GOB financed cluster project and acted as a Project Coordinator of IDA financed 1998 Emergency Flood Damage Rehabilitation Project. Project Coordinator of a number of ADB financed project like Secondary Town Integrated Flood Protection Project Phase -1 (STIFFP-1), Command area Development Project (CAD), Bhola Irrigation Project (BIP).
- Project Director of IDA financed 1998 Emergency Flood Damage Rehabilitation Project. Project Coordinator. Review of flood damage assessment work, preparation of procurement plan, preparation of bidding document, bidding process evaluation etc. I monitor the design works and works of construction supervision consultants, contractor etc.
- Associated with 1998 flood damage restoration work of ADB financed project and GOB financed project starting form assessment preparation of estimates, tender document, invitation of bid, evaluation finalization of tender and award of contract etc. following GOB guideline as per procurement rule and also donors guidelines like IDA, ADB etc.
- Supervised the construction work for quality assurance and timely completion as per design specification
- Prepared project completion report and help in preparation of impact assessment report due to the implementation of the schemes.
- Project Director/Team Leader for feasibility study of small new FCDI schemes; Responsible for co-ordinated the activities of the team to carry out the study analyzing various engineering data including morphological behavior of the river system an analysis of erosion and sedimentation process. Social studies, environment impact assessment etc.

**EMPLOYER:**

Sir William Halcrow and Partners Ltd. lien from BWDB

**FROM MAY 1997 TO AUGUST 1998**

**Deputy Resident Engineer (DRE).**

- Acted as an active member of highly Qualified Construction Supervision Consultant Team (CSC), led a group of Supervising Engineers comprising Section Engineers, Surveyors, Technicians for quality assurance activities. Checked the dredging work

- for revetment construction. Checked the method statement of work etc. Prepared progress report project completion report.
- As a member of the CSC Team, helped the expatriate Resident Engineer (RE) in review of planning, design, preparation of implementation program, procurement plan, contract administration, preparation of bill, supervision of work, checking of method statement, checking of survey work, monitoring environment, health, sanitation issues.

**EMPLOYER:**  
Bangladesh Water  
Development Board (BWDB).

**FROM NOVEMBER 1994 TO APRIL 1997**

**Superintending Engineer/Project Director, Barisal O & M Circle.**

Responsible for:

- Rehabilitation of various coastal polders under second SSFCDI project, Dutch Aided EIP, System Rehabilitation Project (SRP) in greater Barisal District.
- Preparation of new scheme; Preparation of PP/PCP of project;
- Preparation of ADP; preparation of work program. Submission of design data for design of sluices and regulators; Sanction of cost estimate; pre-qualification of contractors for works costing more than 50.00 lac;
- Processing and evaluation of tender following GOB guideline and Donor guideline where applicable;
- Site supervision of work; Review progress of work and finally completion of work as per design and specification.

**Principle Scientific Officer (PSO)**

- Reviewed Policy, documents on Environment, Forest and Fishery.
- Undertook the study of impact assessment of empoldering specially the sedimentation process in the rivers and channels in between the adjacent polders. Reviewed impact assessment study of Barisal Irrigation project etc. Recommended for conversion of lift irrigation to gravity irrigation.

**Director, Ground Water**

- Monitored commercial drilling activities and study of aquifer characteristics of soil.

**FROM MAY 1979 TO OCTOBER 1994**

**Executive Engineer, Design**

Responsible for:

- Hydrologic and hydraulic design of sluices and regulators in Cox's Bazar O&M Division, BWDB Cox's Bazaar, strengthening of Gumi Embankment etc.

**Executive Engineer of Special Studies Directorate.**

Responsible for:

- Feasibility study of Gorai River Development Project and Impact Study of Farakka Barrage in south west region

**Executive Engineer, Borgona O&M Division.**

Responsible for:

- Implementation of various coastal polders. Including preparation of small FCDI projects under Early Implementation Project (EIP). Preparation of new schemes, undertook study to see the morphological behavior of rivers, shifting of Banks etc.
- Preparation of estimate. Tender documents, invitation of bid processing of bid following GOB guideline and Donors guidelines where applicable. Supervised the construction work to maintain desired specification.

**Executive Engineer, Rajshahi O&M Division**

Responsible for:

- Implementation of various town protection schemes like Rajshahi town protection scheme, Sardah cadet college protection schemes,
- Worked for implementation of various FCDI Projects including preparation of new schemes in greater Rajshahi and Bogra District.

	<ul style="list-style-type: none"> <li>- Preparation of estimate processing of tender, award of contract following set guideline of both GOB and Donors where applicable.</li> <li>- Supervised the work for quality assurance and timely completion as per design and specification and within budget.</li> </ul>
<b>EMPLOYER:</b> State Organisation for Land Reclamation (SOSLR) Govt. of Iraq	<b>FROM APRIL 1980 TO APRIL 1983</b> <b>Civil Engineer</b> Responsible for: <ul style="list-style-type: none"> <li>- Execution of two land reclamation projects like Shahmiya and Kusaba Irrigation Projects under State Organization for Land Reclamation (SOSLR), Govt. of Iraq</li> <li>- Supervision of civil engineering of works of high standard quality</li> <li>- Preparation of estimate, preparation of invoices of contractors, checking method statement of works, preparation of progress report, completion report etc.</li> </ul>
<b>EMPLOYER:</b> Bangladesh Water Development Board (BWDB).	<b>FROM AUGUST 1970 TO APRIL 1979</b> <b>Assistant Engineer/SDE.</b> Responsible for: <ul style="list-style-type: none"> <li>- Supervise the execution of flood control and drainage component of Sirajgonj Integrated Development Project (SIRDP) in the district of Sirajgonj and FCDI project in Noakhali and Barisal district.</li> </ul>
<b>11. WORK UNDERTAKEN THAT BEST ILLUSTRATES YOUR CAPABILITY TO HANDLE THIS ASSIGNMENT:</b> an outline of experience and training most pertinent to the tasks on this assignment, with degree of responsibility held:	
<b>Experience:</b> <ul style="list-style-type: none"> <li>• <b>March 2010 To Date;</b> Sr. Construction Monitoring &amp; Quality Control Specialist, Improved Water Management in BWDB Schemes (Contract Package No. BWDB/S-1) under WB funded Water Management Improvement Project.</li> <li>• <b>August 2008 To February 2009;</b> Individual Consultant, Water Manage Improvement Project (WMIP), BWDB</li> <li>• <b>February 2008 To July 2008;</b> Team Leader, District Water Resources Assessment (DWRA), under Local Government Engineering Department (LGED).</li> <li>• <b>May 2007 To January 2008;</b> Planning Engineer, Estuary Development Project under Dutch Assistance, BWDB.</li> <li>• <b>January 2006 To September 2006;</b> Deputy Team Leader (Individual Consultant), Protection of Sarshina Darbar Sharif Complex and Jammudwip and Brahmkathi area in the District of Barisal and Perojpur from Erosion of Sandhya River</li> <li>• <b>December 2004 To December 2005;</b> Consultant, Various projects of Engineering &amp; Planning Consultants Ltd. (EPC).</li> <li>• <b>February 2004 To November 2004;</b> Additional Director General (O&amp;M), Various projects of Bangladesh Water Development Board (BWDB).</li> <li>• <b>February 2003 To January 2004;</b> Additional Director General (Planning), Various projects of Bangladesh Water Development Board (BWDB).</li> <li>• <b>November 2000 To February 2003;</b> Zonal Chief Engineer, Various projects of Bangladesh Water Development Board (BWDB).</li> <li>• <b>September 1998 To November 2000;</b> Project Director, GOB financed cluster project costing Taka 10 core. IDA financed 1998 Emergency Flood Damage Rehabilitation Project. ADB financed Secondary Town Integrated Flood Protection Project Phase -1 (STIFFP-1), Command Area Development Project (CAD), Bhola Irrigation Project (BIP).</li> <li>• <b>May 1997 To August 1998;</b> Deputy Resident Engineer (DRE), Various Projects of Sir. B William Halcrow and Partners Ltd.</li> <li>• <b>November 1994 To April 1997;</b> Superintending Engineer/Project Director, Barisal O&amp;M Circle., Various projects of Bangladesh Water Development Board (BWDB).</li> <li>• <b>May 1979 To October 1994;</b> Executive Engineer, , Various projects of Bangladesh Water Development Board (BWDB).</li> <li>• <b>April 1980 To April 1983;</b> Civil Engineer, Shahmiya &amp; Kusaba Irrigation Projects</li> <li>• <b>August 1970 To April 1979;</b> AE/SDE, Serajganj Integrated Development Project (SIRDP), Coastal Embankment Project</li> </ul> <p style="text-align: center;">(Signature)</p> <b>Training:</b> <ul style="list-style-type: none"> <li>• Attended a directed course of study at the Asian Institute of Technology (AIT) Bangkok from September'78 to April'79 in the field of Hydraulic and Coastal Engineering</li> <li>• Attended a Regional Seminar on Project Implementation and Administration in ADB head quarter Manila from 10th May, 1999 to 21st. May 1999.</li> <li>• Attended 3 months training course at APTECH CENTRE, Banani on Computers Fundamentals, MS Work, MS Excel, Power Point Presentation and Internet use etc.</li> </ul>	
<b>12. COMPUTER SKILLS</b>	

**CERTIFICATION:**

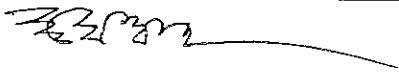
I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I also understand that any willful mis-statement described herein may lead to my disqualification or dismissal, if engaged.

I have been employed by **Engineering & Planning Consultants Ltd. (EPC)** continuously for the last twelve (12) months as regular full time staff. Indicate "Yes" or "No" in the boxes below.

YES

NO

Signature



Date of Signing

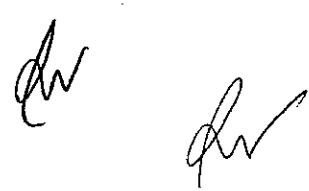
10/06/2017  
Day / Month / Year

**CV No. 2**

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**Sr. Hydrologist  
Md. Ansar Ali Mian**




## FORM 5A8 : CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

Name of the Consultant	Engineering and Planning Consultants Ltd. (EPC)
RFP IDENTIFICATION NO.	CIB-S-60
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	: Senior Hydrologist												
2. NAME OF PERSON	: Md. Ansar Ali Mian												
3. DATE OF BIRTH	: 31 August 1955												
4. NATIONALITY	: Bangladeshi												
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	: Life fellow, Institution of Engineers, Bangladesh (F/4153)												
6. EDUCATION	: <ul style="list-style-type: none"> <li>• Masters in Water Resources, BUET, Dhaka, 2004</li> <li>• B. Sc. Engineering (Civil), Rajshahi Engineering College, 1978</li> </ul>												
7. OTHER TRAINING	: -												
8. LANGUAGE AND DEGREE OF PROFICIENCY	: <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 30%;">Language</th> <th style="text-align: left; width: 20%;">Speaking</th> <th style="text-align: left; width: 20%;">Reading</th> <th style="text-align: left; width: 30%;">Writing</th> </tr> </thead> <tbody> <tr> <td>Bengali</td> <td>Excellent</td> <td>Excellent</td> <td>Excellent</td> </tr> <tr> <td>English</td> <td>Excellent</td> <td>Excellent</td> <td>Excellent</td> </tr> </tbody> </table>	Language	Speaking	Reading	Writing	Bengali	Excellent	Excellent	Excellent	English	Excellent	Excellent	Excellent
Language	Speaking	Reading	Writing										
Bengali	Excellent	Excellent	Excellent										
English	Excellent	Excellent	Excellent										
9. COUNTRIES OF WORK EXPERIENCE	: Bangladesh												
10. EMPLOYMENT RECORD	: <p><b>EMPLOYER:</b> Engineering and Planning Consultants Ltd. (EPC)</p> <p>From January 2016 to Till Date Hydrologist, Various Project <b>Responsible for:</b> Reviewed and advice on the hydro-morphological studies related to Paira Bridge Project. Advice on the proposal preparation of various hydro-morphological study reports.</p> <p><b>EMPLOYER:</b> Bangladesh Water Development Board (BWDB)</p> <p>From March 1979 To August 2014</p> <p>From 17-12-2013 to 28-08-2014 Addl. Director General (Planning), BWDB; <b>Responsible for:</b> Responsible for Policy level Planning, implementation &amp; Management of different projects under Bangladesh Water Development Board (BWDB). As Addl. Director General (Planning) was also responsible for administrative control of BWDB, approval of DPP of different projects, management, monitoring &amp; top supervision of different projects, liaison with different funding agencies &amp; other Govt. organization, reporting etc.</p> <p></p> <p>From 30-06-2011 to 17-12-2013 Chief Engineer, Hydrology, BWDB, Hydrological &amp; Morphological Study of different rivers of Bangladesh for implementation of different projects under Bangladesh Water Development Board; <b>Responsible for:</b> Was responsible for overall coordination, management and monitoring on feasibility study, topographical survey, bathymetrical survey, detail hydrological &amp; morphological study of all the rivers (about 405 nos) of Bangladesh for implementation of different projects under Bangladesh Water Development Board. Also was responsible for study on climate change and salinity intrusion of 19 coastal Districts of Bangladesh. As Chief Engineer, Hydrology was responsible for management, monitoring &amp; top supervision of different projects, liaison with different funding agencies &amp; other Govt. organization, reporting etc.</p>												

**From 05-01-2011 to 30-06-2011**

**Addl. Chief Engineer; Hydrology, BWDB;**

**Responsibilities include:** Was responsible for overall coordination, management and monitoring on feasibility study, topographical survey, bathymetrical survey, detail hydrological & morphological study of all the rivers (about 405 nos) of Bangladesh for implementation of different projects under Bangladesh Water Development Board. As Addl. Chief Engineer; Hydrology was responsible for management, monitoring & top supervision of different projects, liaison with different funding agencies & other Govt. organization, reporting etc.

**From 19-08-2007 to 05-01-2011**

**Superintending Engineer, River Morphology & Research Circle, BWDB; Hydrological & Morphological Study of different rivers of Bangladesh for implementation of different projects under Bangladesh Water Development Board;**

**Responsibilities include:** Was responsible for overall coordination, management and monitoring on feasibility study, topographical survey, bathymetrical survey, detail hydrological & morphological study of 180 rivers for implementation of different projects under Bangladesh Water Development Board.

**From 08-04-2007 to 19-08-2007**

**Superintending Engineer, Ganges Barrage Study Project, BWDB**

**Responsibilities include:** Was responsible for overall coordination, management and monitoring on feasibility study, topographical survey, bathymetrical survey, detail hydrological & morphological study of Ganges and its adjacent rivers, mathematical modeling of the proposed barrage etc. under Ganges Barrage study Project.

**From 17-11-2003 to 07-04-2007**

**Executive Engineer, Design Circle-6, BWDB; Different Projects under Northern zone and north western zone of BWDB**

**Responsibilities include:** Was responsible for feasibility study, river hydrological & morphological study and design & top supervision of construction and preparation of estimate of embankment, regulators, bridges, culverts, symphonies, canals and other hydraulic structures under different projects of Northern zone and north western zone of Bangladesh under Bangladesh Water Development Board.

**From 05-04-1998 to 16-11-2003**

**Executive Engineer, Design Circle-4, BWDB; Different Projects under North eastern zone and south eastern zone of BWDB**

**Responsibilities include:** Was responsible for feasibility study, river hydrological & morphological study and design & top supervision of construction and preparation of estimate of embankment, regulators, bridges, culverts, symphonies, canals and other hydraulic structures under different projects of North eastern zone and south eastern zone of Bangladesh under Bangladesh Water Development Board.

**From 20-01-1986 to 04-04-1998**

**Sub Divisional Engineer, Design Circle-6, BWDB; Different Projects under Northern zone and north western zone of BWDB;**

**Responsibilities include:** Was responsible for feasibility study, river hydrological & morphological study and design & construction supervision and preparation of estimate of embankment, regulators, bridges, culverts, symphonies, canals and other hydraulic structures under different projects of Northern zone and north western zone of Bangladesh under Bangladesh Water Development Board.

**From 07-06-1985 to 12-01-1986**

**Sub Divisional Engineer, Bhola Irrigation Division; Bhola Irrigation Project.**

**Responsibilities include:** Was responsible for feasibility study, river hydrological & morphological study and design of embankments, 2/3 vent regulators, bridges, culverts, canals and other hydraulic structures under the project. Also responsible for construction supervision quality control and management, monitoring of embankments, canals,

regulators bridges, culverts and all other hydraulic structures under the project.

**From 28-04-1985 to 01-06-1985**

**Sub Divisional Engineer, Design Circle-6, BWDB;** Different Projects under Northern zone and north western zone of BWDB

**Responsibilities include:** Was responsible for feasibility study, river hydrological & morphological study and design & construction and preparation of estimate of supervision of embankment, regulators, bridges, culverts, symphonies, canals and other hydraulic structures under different projects of Northern zone and north western zone of Bangladesh under Bangladesh Water Development Board.

**From 29-08-1983 to 27-04-1985**

**Sub Divisional Engineer, Design Circle-5, BWDB;** Different Projects under Mid western and south western zone of BWDB

**Responsibilities include:** Was responsible for feasibility study, river hydrological & morphological study and design & construction and preparation of estimate of supervision of embankment, regulators, bridges, culverts, symphonies, canals and other hydraulic structures under different projects of Mid western and south western zone of Bangladesh under Bangladesh Water Development Board.

**From 02-03-1979 to 28-08-1983**

**Assistant Engineer/ SDE, Muhuri Irrigation Project (MIP), Design Cell;** Muhuri Irrigation Project (MIP)

**Responsibilities include:** Was responsible for feasibility study, river hydrological & morphological study and design of embankments, 40 vent regulator, 2/3 vent regulators, bridges, culverts, canals and other hydraulic structures under the project. Also responsible for construction and preparation of estimate of supervision quality control and management, monitoring of embankments, canals, regulators bridges, culverts and all other hydraulic structures under the project. Include for pre & Post survey works for checking layout of hydraulic structures as per plan and drawings, fixing the alignment and setting out of curves of the embankment.

#### 11. WORK UNDERTAKEN THAT BEST ILLUSTRATES CAPABILITY TO HANDLE THIS ASSIGNMENT:

Outline of experience and training of the most pertinent to the tasks on this assignment, with degree of responsibility held-

- **January 2016 to Till Date;** Hydrologist, Various Project, Engineering and Planning Consultants Ltd. (EPC)
- **17-12-2013 to 28-08-2014;** Addl. Director General (Planning); Hydrology, BWDB;
- **30-06-2011 to 17-12-2013;** Chief Engineer, Hydrology, BWDB, Hydrological & Morphological Study of different rivers of Bangladesh for implementation of different projects under Bangladesh Water Development Board;
- **05-01-2011 to 30-06-2011;** Addl. Chief Engineer; Hydrology, BWDB;
- **19-08-2007 to 05-01-2011;** Superintending Engineer, River Morphology & Research Circle, BWDB; Hydrological & Morphological Study of different rivers of Bangladesh for implementation of different projects under Bangladesh Water Development Board;
- **08-04-2007 to 19-08-2007;** Superintending Engineer, Ganges Barrage Study Project, BWDB
- **17-11-2003 to 07-04-2007;** Executive Engineer, Design Circle-6, BWDB; Different Projects under Northern zone and north western zone of BWDB
- **05-04-1998 to 16-11-2003;** Executive Engineer, Design Circle-4, BWDB; Different Projects under North eastern zone and south eastern zone of BWDB
- **20-01-1986 to 04-04-1998;** Sub Divisional Engineer, Design Circle-6, BWDB; Different Projects under Northern zone and north western zone of BWDB;
- **07-06-1985 to 12-01-1986;** Sub Divisional Engineer, Bhola Irrigation Division; Bhola Irrigation Project.
- **28-04-1985 to 01-06-1985;** Sub Divisional Engineer, Design Circle-6, BWDB; Different Projects under Northern zone and north western zone of BWDB
- **29-08-1983 to 27-04-1985;** Sub Divisional Engineer, Design Circle-5, BWDB; Different Projects under Mid western and south western zone of BWDB
- **02-03-1979 to 28-08-1983;** Assistant Engineer/ SDE, Muhuri Irrigation Project (MIP), Design Cell; Muhuri Irrigation Project (MIP)

#### 12. COMPUTER SKILLS

: -

**CERTIFICATION:**

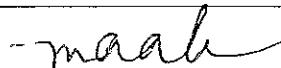
I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I also understand that any willful mis-statement described herein may lead to my disqualification or dismissal, if engaged.

I have been employed by **Engineering and Planning Consultants Ltd. (EPC)** continuously for the last twelve (12) months as regular full time staff. Indicate "Yes" or "No" in the boxes below:

YES

NO

Signature



Date of Signing

07/06/2017  
Day / Month / Year

**CV No. 3**

---

Modeling Engineer 1  
**Sarder Imtiaz Ahmed**

Q

dr  
dr

## FORM 5A8 : CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

Name of the Consultant	Soils and Foundations Limited
RFP IDENTIFICATION NO.	CIB-S-60
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	: Modeling Engineer-1												
2. NAME OF PERSON	: Sarder Imtiaz Ahmed												
3. DATE OF BIRTH	: 1st April, 1967												
4. NATIONALITY	: Bangladeshi												
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	: • Member, Institute of Engineers Bangladesh (M/22397)												
6. EDUCATION	: • M. Engg. In Hydro Informatics, International Institute of Infrastructural, Hydraulic and Environmental Engineering, IHE, the Netherlands, 1997 • B. Sc. in Civil Engineering, BUET, 1992												
7. OTHER TRAINING	: • Technical Report Writing Skills (in English) Conducted by British Council Teaching Centre, Dhaka in 2004 • Hydrodynamic and Morphological Modelling (MIKE21C) Conducted by DHI, at DHI, Denmark. 1999 • Training on the preparation and writing proposal, Conducted by DHI business management expert at SWMC, Dhaka, 1999 • Training on two-dimensional hydrodynamic modeling using FESWMS software developed by US Federal Highways Administration, Conducted by Parsons Brinckerhoff Inc. at Dhaka. 1998 • Training on the river morphology Conducted by DHI morphological expert at SWMC, Dhaka.												
8. LANGUAGE AND DEGREE OF PROFICIENCY	: <table border="0"> <tr> <td><u>Language</u></td> <td><u>Speaking</u></td> <td><u>Reading</u></td> <td><u>Writing</u></td> </tr> <tr> <td>Bengali</td> <td>Fluent</td> <td>Excellent</td> <td>Excellent</td> </tr> <tr> <td>English</td> <td>Excellent</td> <td>Excellent</td> <td>Excellent</td> </tr> </table>	<u>Language</u>	<u>Speaking</u>	<u>Reading</u>	<u>Writing</u>	Bengali	Fluent	Excellent	Excellent	English	Excellent	Excellent	Excellent
<u>Language</u>	<u>Speaking</u>	<u>Reading</u>	<u>Writing</u>										
Bengali	Fluent	Excellent	Excellent										
English	Excellent	Excellent	Excellent										
9. COUNTRIES OF WORK EXPERIENCE	: Bangladesh and Malaysia.												
10. EMPLOYMENT RECORD	: <table border="0"> <tr> <td>EMPLOYER:</td> <td>From June 2015 to Date</td> </tr> <tr> <td>Soils and Foundations Limited</td> <td>Morphological Modelling Specialist</td> </tr> <tr> <td></td> <td>Responsible for Developing Morphological Modelling for the following project: Second Rural Transport Improvement Project (RTIP-II): Design and Supervision Consultancy Services (DandSC), R-2.</td> </tr> <tr> <td>EMPLOYER:</td> <td>From 2012 to 2015</td> </tr> <tr> <td>Institute of Water Modelling (IWM)</td> <td>Principal Specialist</td> </tr> <tr> <td></td> <td>Preparing technical and financial proposal and contract agreement, supervising the team to achieve the project outputs, evaluate and interpret the model results, disseminating study findings to all stakeholders, interacting and maintaining liaison with the Client, technical report writing</td> </tr> </table>	EMPLOYER:	From June 2015 to Date	Soils and Foundations Limited	Morphological Modelling Specialist		Responsible for Developing Morphological Modelling for the following project: Second Rural Transport Improvement Project (RTIP-II): Design and Supervision Consultancy Services (DandSC), R-2.	EMPLOYER:	From 2012 to 2015	Institute of Water Modelling (IWM)	Principal Specialist		Preparing technical and financial proposal and contract agreement, supervising the team to achieve the project outputs, evaluate and interpret the model results, disseminating study findings to all stakeholders, interacting and maintaining liaison with the Client, technical report writing
EMPLOYER:	From June 2015 to Date												
Soils and Foundations Limited	Morphological Modelling Specialist												
	Responsible for Developing Morphological Modelling for the following project: Second Rural Transport Improvement Project (RTIP-II): Design and Supervision Consultancy Services (DandSC), R-2.												
EMPLOYER:	From 2012 to 2015												
Institute of Water Modelling (IWM)	Principal Specialist												
	Preparing technical and financial proposal and contract agreement, supervising the team to achieve the project outputs, evaluate and interpret the model results, disseminating study findings to all stakeholders, interacting and maintaining liaison with the Client, technical report writing												

EMPLOYER: <b>Institute of Water Modelling (IWM)</b>	<b>From 2006 to 2012</b> <b>Senior Specialist</b> Involved in developing the mathematical models for the major and minor rivers of Bangladesh, prepared plan for conducting hydrometric survey as per requirement of the model, evaluate and interpret the model results, disseminating study findings to all stakeholders, interacting and maintaining liaison with the client, technical report writing.
EMPLOYER: <b>Dr. NIK and Associates, Wangsa Maju, Malaysia.</b>	<b>From April, 2007 to Sep, 2007</b> <b>Associate Specialist</b> Developing hydrodynamic models with application of MIKE21 for the hydraulic analysis of thermal plume dispersion, developing morphological model for the river mouth, analysis of deposition tendency, and report writing.
EMPLOYER: <b>Institute of Water Modelling (IWM)</b>	<b>From 2002 to 2004</b> <b>Associate Specialist</b> Development of two-dimensional morphological models for the rivers in relation with determination of the impact and evaluating the performance of the existing or proposed structures, assessment of future development in river behaviour, devising solution for arresting further bank erosion, formulating maintenance and monitoring plan, preparing technical report.
EMPLOYER: <b>Institute of Water Modelling (IWM)</b>	<b>From 1998 to 2002</b> <b>Junior Specialist</b> Development and assistance in development of two-dimensional morphological models, plan form analysis, hydro-morphological analysis of the data in relation to the dynamic process of the river, extraction of model results to provide the hydraulic design variables including the selection of bridge site, bridge width, pier scour, vertical clearance; impact of proposed bridge, and planning of bank protection works, contribution to report writing and presentation results to Client.
EMPLOYER: <b>FAP 24</b>	<b>From 1993 to 1996</b> <b>Junior Engineer</b> Involvement in analysing hydraulic and morphological data for the major rivers (11 locations) of Bangladesh, preparing database and analysing sediment data
EMPLOYER: <b>DDC</b>	 <b>From 1992 to 1993</b> <b>Junior Structural Engineer</b> Assisted in Bridge and multi storied building design.

**11. WORK UNDERTAKEN THAT BEST ILLUSTRATES CAPABILITY TO HANDLE THIS ASSIGNMENT:**

About 24 years of experience in the field of hydrology, river hydraulics & morphology, and numerical modelling at home and abroad.

Working experience covers the field of hydraulics, morphology and modelling applied to Computational Hydraulics, River hydraulics and Water Resources Development Engineering with more than 17 years of professional experience that includes research and studies using mathematical models. Hydrodynamic and morphological modelling experience for 17 years using modelling system MIKE11, MIKE21, MIKE21C of DHI, Denmark. Experience also covers participation in externally funded

clientele consultancy projects involving preparation of technical proposals, assuring technical quality and timely completion, final technical and financial reporting, preparation of technical proposals on the modelling aspects of water sector consultancy projects with a view to winning and ensuring technical quality.

Since 1998, responsible for day to day project management by carrying out the hydrological, hydrodynamic, hydraulics, sediment transport and morphological study for various projects, namely-

- Gorai River Restoration Project Phase II
- Mathematical Study/Hydraulic Design for Padma Bridge Feasibility Study
- Ganges Barrage modeling
- Chandana Barasia River Modeling
- Mathematical Modelling of the Meghna River in connection with the Proposed Ashuganj Power Station Master Plan and Related Services
- Hydrological and Morphological Study of the river of Melandah bridge at 18<sup>th</sup> km of Bonaripara-Jummarbari-Sonatola road & of Baradoh bridge at 2 1<sup>st</sup> km of Gaibandha-Nakaihat-Gobindagonj road in Gaibandha District under Gaibandha Road Division
- Mathematical Modelling Study for protection of the Padma left bank against bank erosion at Kobutorkhola, Bhagyakul Bazar, Baghra Bazar, Narisha Bazar and Braha Bazar in Upazilla Sreenagar and Dohar under the District of Munshigonj & Dhaka
- Hydrological and Morphological Study of the Dhanagoda River and Adjoining Area for the Proposed Road Bridge over Dhanagoda River at Matlab Upazila in Chandpur District under Road Division Chandpur
- Monitoring of Hydraulic and Morphological conditions of Jamuna RIVER FOR THE SAFETY OF Bangabandhe Bridge during the year 2010-11
- Hydrological and Morphological Study of Old Madhumati River under Rehabilitation of Old Madhumati River and Improvement of Surrounding Area of Gopalganj Pourashava
- Hydrological and Morphological Study of 240m Bridge at 21<sup>st</sup> km of Sutipara-Roail Futnagar-Savar connecting Road over Bangshi River, Upazila: Dhamrai, District: Dhaka.
- Hydrological and Morphological Study for the Proposed Road Bridge on Gorai River at Kushtia Sadar Upazila under Kushtia District.
- Hydro-morphological Study of 278.4m Bridge on Gazaria-Manika via Dularhat-Anjurhat Road over Maya River Upazila: Charfession, District: Bhoal.
- Monitoring of Hydraulic and Morphological Conditions for the Safety of the Jamuna Multipurpose Bridge during the Year 2008-2009.
- Hydrological and Morphological Study using Mathematical Model for the Proposed Bridge on Karatoya River at Ullahpara Upazila under Sirajganj.
- Feasibility Study for Protection of Flood Embankment of Faridpur-Barisal Project (Faridpur Unit) and Faridpur Town from the Erosion of the River Padma in the Sadar and Char Bhadrasan Upazila under Faridpur District.
- Morphological Study for Erosion Prediction and Mitigative Measures at the Vicinity of the Jamuna Bridge and Structural Measures against possible Unification of the Jamuna-Bangali River using Mathematical Model.
- Mathematical Modelling for the proposed bridge over Arial Kahn River under Southwest Road Network Development Project.
- Hydraulic design of intake canal from the Dudhkumar for Kurigram Irrigation Project.
- Hydro-morphological study of the Surma river for Kazirbazar Bridge.
- Hydrological and Morphological Study Using Mathematical Modelling for Bridge on Juri River at Fenchuganj Upazilla under Sylhet District.
- Hydrological Morphological Forecast for Protection Soilabari and adjacent areas of Sirajganj Town.
- Modelling study / Hydraulic Design for Lalan Shah Road Bridge.
- Mathematical Modelling Study / Hydraulic Design for Bhairab Bridge.
- Hydraulic Design of Khurshid Mohal Bridge over the Old Brahmaputra River.

- Hydraulic design of Sherpur Bridge and associated river training work over Old Brahmaputra River.
- Hydraulic design of Eloasin Bridge over Dhaleswari River.
- Mathematical Modelling / Hydraulic Design for Loop-cut study of minor rivers of Bangladesh.
- Mathematical Modelling / Hydraulic Design for Bhairab Bazaar Town Protection Project.

Experienced in writing inception, technical and final reports. Ample experience in organizing interaction meetings, local and national workshops.

Prepared over 10 technical reports and 15 proposals.

Authored and presented papers in National and International Seminars.

Participated over 10 national and international seminars, workshops and conferences.

Provided training to professionals of BWDB and Bangladesh Bridge Authority on river hydraulics and sediment transport.

(Brief description of duties carried out under each project is given under Para 10 above)

**12. COMPUTER SKILLS**

:

Widely used latest application software for word processing, spreadsheet analysis, graphical analysis and presentation of model results. Proficient in Windows OS and MS Office software.

Used various specialized software for data analysis and mathematical modelling. For example: HEC, HYMOS and MIKE 21/C.

**CERTIFICATION:**

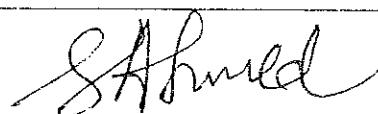
I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I also understand that any wilful mis-statement described herein may lead to my disqualification or dismissal, if engaged.

I have been employed by Soils and Foundations Limited continuously for the last twelve (12) months as regular full time staff. Indicate "Yes" or "No" in the boxes below:

YES

NO

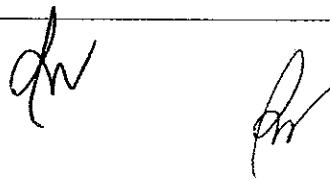
Signature



Date of Signing

10/06/2017

Day / Month / Year



**CV No. 4**

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Modeling Engineer 2  
**Tanvir Ahmed**





## FORM 5A8 : CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

Name of the Consultant	Strategic Planning and Management Consultants Ltd (SPMC)
RFP IDENTIFICATION NO.	CIB-S-60
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	: Modeling Engineer-2
2. NAME OF PERSON	: Tanvir Ahmed
3. DATE OF BIRTH	: 26 October 1980
4. NATIONALITY	: Bangladeshi
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	: • Institution of Engineers, Bangladesh (IEB)
6. EDUCATION	: • Master in Euro Aquae Hydro-Informatics and Water Management, Joint Master degree awarded by Budapest University of Technology and Economics (Hungary), Newcastle University (UK), Nice – Sophia Antipolis University (France), Brandenburg, University of Technology (Germany), Technical University of Catalonia (Spain), 2011 • Master of Engineering in Water Resources Engineering, Bangladesh University of Engineering and Technology,(BUET) Dhaka, 2009 • B.Sc. in Water Resources Engineering, Bangladesh University of Engineering and Technology,(BUET) Dhaka, 2004
7. OTHER TRAINING	: -
8. LANGUAGE AND DEGREE OF PROFICIENCY	: Language                      Speaking                      Reading                      Writing Bengali                      Excellent                      Excellent                      Excellent English                      Excellent                      Excellent                      Excellent
9. COUNTRIES OF WORK EXPERIENCE	: Bangladesh, Australia
10. EMPLOYMENT RECORD	:  <b>EMPLOYER:</b> Strategic Planning and Management Consultants Ltd (SPMC)  From Mar 16 to till date Modeler Responsible for: Develop and apply a new models for Brahmaputra River flooding. The responsibilities are: • Development of flood vulnerability index utilizing the application of flood model • Devel
<b>EMPLOYER:</b> School of Civil Engineering, The University of Sydney	: From Aug 15 to Feb 16 Research Assistant, Responsible for: Develop and apply a new methodology for assessing vulnerability to flooding in urban area (Marrickville LGA) at local scale. The responsibilities are: • Development of flood vulnerability index utilizing the application of flood model • Development of social vulnerability index • GIS application for result
<b>EMPLOYER:</b> Institute of Water Modelling (IWM), Dhaka, Bangladesh Web: www. iwmabd.org	: From Oct 11 to Aug 14 Hydrologic & Hydrodynamic Modeler; Responsibilities • Process, analysis, interpretation and management of hydrological, topographic and land use data • Field visits includes reconnaissance survey, ensure quality of data collection

- activity, check the progress of survey work
- Liaison with clients, stake holders, local government officials and contractors
- Development of hydrological & hydrodynamic model for water resources planning and design
- Project management and team management
- Project report writing and proposal writing (concept proposal, technical and financial proposal)
- GIS mapping
- Technology transfer and training
- Different phase of project work presentation
- Assist in organising conferences, seminars and workshops

#### Achievements

- Planned and monitored survey activities for the successful and timely survey
- Recommended the planners about the most feasible solution
- Supplied design parameters to design engineers
- Successful completion of 5 projects as project leader
- Maintained well liaison with internal staff and both local and international clients
- Developed hydrological and hydrodynamic models covering various locations and addressing different problems
- Authored 2 concept and technical proposals and 7 final reports
- Nominated by HR as the trainer for 3 training programs for in-house and external staffs
- Guided undergraduate intern students
- Participates number of national and international workshops and seminars related to water, drainage, flood management, flood forecasting etc.
- Trained newly recruited engineers in technical and management sectors. work assigned and guiding as project leader.

**EMPLOYER:**

Flanders Hydraulics Research,  
Antwerp, Belgium

**From Mar 11 to Aug 11**

**Internship; Flanders Hydraulics Research, Antwerp, Belgium Web:**  
[www.watlab.be/en](http://www.watlab.be/en)

**Responsibilities**

- Completed Master thesis (Hydro-Informatics and Water Management) with professional organisation.
- Detailed literature study on standard and special shapes of weirs (Alphabet Weirs: U, W and A shaped-Weir), e.g. their functionality, stage-discharge relationships, limitations and advantages.
- Field trips in team to visit different types of established weirs and other structures in different rivers and channels.
- Investigation the feasibility of installed special shape weirs in small channels in experimental level
- Model special shape of weirs in MIKE 11 with laboratory data.

**Achievements**

- Completed Master thesis (Hydro-Informatics and Water Management) with professional organisation.

**EMPLOYER:**

Institute of Water Modelling  
(IWM), Dhaka, Bangladesh  
Web: [www.iwmbd.org](http://www.iwmbd.org)

**From Apr 05 - Aug 09**

**Hydrologic & Hydrodynamic Modeller;**

**Responsibilities**

- Process, analysis, interpretation and management of hydrological, topographic and land use data
- Field visits includes reconnaissance survey, ensure quality of data collection activity, check the progress of survey work
- Liaison with clients, stake holders, local government officials and contractors
- Development of hydrological & hydrodynamic model for water resources planning and design

- Project management and team management
- Project report writing and proposal writing (concept proposal, technical and financial proposal)
- GIS mapping
- Technology transfer and training
- Different phase of project work presentation
- Assist in organising conferences, seminars and workshops

#### Achievements

- Planned and monitored survey activities for the successful and timely survey
- Recommended the planners about the most feasible solution
- Supplied design parameters to design engineers
- Successful completion of 5 projects as project leader
- Maintained well liaison with internal staff and both local and international clients
- Developed hydrological and hydrodynamic models covering various locations and addressing different problems
- Authored 2 concept and technical proposals and 7 final reports
- Nominated by HR as the trainer for 3 training programs for in-house and external staffs
- Guided undergraduate intern students
- Participates number of national and international workshops and seminars related to water, drainage, flood management, flood forecasting etc.
- Trained newly recruited engineers in technical and management sectors, work assigned and guiding as project leader.

#### 11. WORK UNDERTAKEN THAT BEST ILLUSTRATES CAPABILITY TO HANDLE THIS ASSIGNMENT:

Outline of experience and training of the most pertinent to the tasks on this assignment, with degree of responsibility held:  
**Experience:**

- Mar 16 to till date; Modeler; Develop and apply a new models for Brahmaputra River flooding.
- Aug 15 to Feb 16; Research Assistant, Project "Development and apply a new methodology for assessing vulnerability to flooding in urban area (Marrickville LGA) at local scale." Sydney, Australia.
- Oct 11 to Aug 14; Hydrologic & Hydrodynamic Modeller; Institute of Water Modelling (IWM), Dhaka, Bangladesh.
- Mar 11 to Aug 11; Internship; Flanders Hydraulics Research, Antwerp, Belgium Web: [www.watlab.be/en](http://www.watlab.be/en)
- Apr 05 to Aug 09; Hydrologic & Hydrodynamic Modeller; Institute of Water Modelling (IWM), Dhaka, Bangladesh.

#### 12. COMPUTER SKILLS : Proficient in basic computer software i.e. Microsoft Office, Internet Exploration, and Hydraulic Modelling Software.

#### CERTIFICATION:

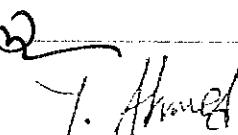
I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I also understand that any wilful mis-statement described herein may lead to my disqualification or dismissal, if engaged.

I have been employed by **Strategic Planning and Management Consultants Ltd (SPMC)** continuously for the last twelve (12) months as regular full time staff. Indicate "Yes" or "No" in the boxes below:

YES

NO

Signature


10/06/2017
Day / Month / Year

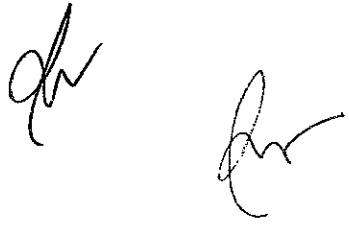
Date of Signing

# **CV No. 5**

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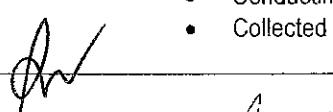
**Morphologist  
Jalal Ahmed**





## FORM 5A8 : CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

Name of the Consultant	Engineering and Planning Consultants Ltd. (EPC)
RFP IDENTIFICATION NO.	CIB-S-60
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	Morphologist			
2. NAME OF PERSON	Jalal Ahmed			
3. DATE OF BIRTH	30 April, 1952			
4. NATIONALITY	Bangladeshi			
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	<ul style="list-style-type: none"> <li>• A.M.I.E/Degree Engineer (Civil), The Institution of Engineers, Dhaka, 1987</li> <li>• M.Sc. (Mathematics), Dhaka University, 1973</li> </ul>			
6. EDUCATION	<ul style="list-style-type: none"> <li>• M. Engineering (Water Resources), 1998 (BUET)</li> <li>• B.Sc. Engineering (Civil), 1st. Class, BUET, Dhaka, 1969</li> </ul>			
7. OTHER TRAINING	<ul style="list-style-type: none"> <li>• Attended Induction Training, Management Training, Training on Discipline, Computer Training (DOS), Training on hydrological survey, sub-soil investigation, etc. under BWDB Training Directorate in 1988.</li> <li>• Attended training course on Procurement of Goods, Works and Services under Project Aid jointly Organised by Academy for Planning and Development and IMED in Dhaka, 1998.</li> <li>• Attended training course on Management Planning organized by the Centre for Management Development in Dhaka, 1993.</li> <li>• Attended special course on computer organized by Computer Education Centre, DATEC Ltd. Dhaka, 1991.</li> <li>• Attended Training of the Trainers (TOT) course in BWDB under Directorate of Training, 1993</li> <li>• Organized training programme by SRP Project in different locations of Bangladesh to the Beneficiaries and BWDB field staff SDE, SO, BRDB officers and NGO personnel.</li> </ul>			
8. LANGUAGE AND DEGREE OF PROFICIENCY	Language	Speaking	Reading	Writing
	Bengali	Good	Good	Good
	English	Good	Good	Good
	Arabic	Good	-	-
9. COUNTRIES OF WORK EXPERIENCE	Bangladesh and Iraq			
10. EMPLOYMENT RECORD	<p>From January 2014 To Date </p> <p><b>EMPLOYER:</b> Engineering &amp; Planning Consultants Ltd.</p> <p><b>Responsible for:</b> Provide hydrological data and information in connection with the proposal preparation of different consultancy services in EPC.</p> <p>From September 2011 To August 2012 </p> <p><b>EMPLOYER:</b> Design Planning &amp; Management Consultants Ltd. (DPM).</p> <p><b>Responsible for:</b> Responsible for hydro-morphological data collection and processing. Conducting topographical and sub-soil investigation survey. Collected data, information for the Feasibility of the project.</p>			

**EMPLOYER:**  
Development Design  
Consultants Ltd

From January 2011 To August 2011

**Junior Construction Supervision Engineer; Emergency 2007 Cyclone Recovery & Restoration Project (ECRRP) at Khepupara, Patuakhali**

- Supervision and monitoring topographical, hydro-morphological survey and investigation in connection with construction of embankment, re-sectioning of embankments, construction of sluice, repair of sluice were conducted in the Payra Port Area.
- River bank protection works done at upstream of Payra Bandar/Port in Polder 47/5 with sub-soil investigation, etc.
- Checked the BOQ of same package works and certified the IPC for payment of bill of the contractors.

**EMPLOYER:**  
Bangladesh Water  
Development Board (BWDB)

From July 1977 To April 2010

From August 2008 To April 2010

**Executive Engineer; Executive Engineer, Barisal O & M Division, BWDB, Barisal, under southern zone.**

- Supervised the construction, re-sectioning of embankment, construction of sluice, repair sluice, bank protection works, re-excavation of canal, remodeling 25 cusec primary pump for irrigation under Barisal Irrigation project, repair maintenance of Division Office, rest house, two residential colony buildings etc. and other official works. Prepared DPP of i) Protection of Beer Sherestho Captain Mohiuddin Jahangir Memorial Museum from erosion of river Shayandah project, ii) Bank Protection of Patherhat Bandar, iii) BIP 3rd Phase iv) Agaijhara, Goumadi FCD Project ,v) Protection of Dhamura Bandar, etc.
- Responsible for collection of hydrological data, river velocity, research, rate of erosion of the river Meghna, Kirtonkhla, Sandha, Arialkhana, etc. river training works of some town protection scheme.
- Supervision, monitoring of works of different O&M and new projects like i) Satia-Bagda Projects, ii) Paiserhat Ransil Project. iii) Kakradhatri Projects, iv) Ragunathpur FCD Project, v) Chandpasha Mirgonj FCD Project, vi) Sayestabad FCD Project. vii) Barisal Irrigation Project
- Supervision and monitoring protection work of Patherhat Bandar, Mirgonj Ferry Ghat, Shikarpur Bandar, etc.
- Before implementation of the above projects prepared ADP, work authorization and prepared Cost Estimate, Tender Documents, Floated tenders, receive tenders, evaluated the same and gave award as per PPR 2008.
- After completion of the project checked BOQ of the contractor and made payment. During the payment followed the financial rules & regulations of procurement of goods of the government.
- During the period cooperate different consulting team, AG team and Internal Audit of BWDB and replied the audit objections.

From September 2006 To July 2008

**Executive Engineer; Executive Engineer and Deputy Director, Admin. under C.E southern zone, BWDB, Barisal.**

- Assisted Chief Engineer in connection with all Technical Works.
- Responsible for preparation of monthly / quarterly progress report. Attended the monthly review meeting or any other meeting as and when required in the interest of board.
- Finalization of feasibility report. Supervise different mechanical works like preparation of M.S Flap Gate, Vertical Lift Gate, repair different types of gates, hoisting system etc in Barisal Irrigation Project as in charge of XEN, Mechanical division, and other coastal embankment projects under Southern Zone.
- Scrutinized the ADP, work authorization of different divisions under the zone. Performed the administrative works like transfer of posting of staffs, approval of leave etc. as DD Admin.
- Collection of hydrological data for Greater Barisal Area from hydrology sub-division

particularly aftermaths of disastering cyclone like SIDR and AILA.

**From August 2004 To October 2006**

**Sub Divisional Engineer;** Sub-Divisional Engineer, Hydrology Subdivision Barisal. Preparation of monthly surface water level data of different rivers under jurisdiction of Southern Zone,

- Preparation of monthly rainfall data sheet, Saline data after collection of saline water from different rivers under southern zone.
- Test salinity level in the laboratory and sent data showing maximum and minimum level to Director's Office for keeping record.
- Established and repaired Surface Water Gauge and rainfall stations in different places under southern zone area i.e. greater Barisal.

**From January 2002 To July 2004**

**Sub Divisional Engineer;** Gournadi O&M Subdivision, BWDB, Barisal.

- Responsible for hydro morphological data processing and prepared PCP, DPP of some FCDI and town protection projects and submitted to higher authority for approval. Supervised construction works under Chouddamotherbeel, Paisar-Hat-Ramsil, Satla-Bagda Polder 1, Sattla-Bagda Polder-2, Satla-Bagda Polder-3 FCDI Projects, Gournadi Town Projection Project, Sikerpur Bandar-Shere Bangla Degree College Protection project, Tarki Bandar Protection Project. In CHOWDDAM OTHER BEEL Project supervision works was done in one 6 vent RAMSIL Regulator cum Boat Pass, three nos. sluice, two nos Inlet construction, repair sluice, inlet. Prepared cost estimate, Tender document and BOQ of above projects.
- Preparation of DPP/Technical Report after collection of hydrological and sub-soil investigation data of some FCD and river training projects.

**From December 1998 To December 2001**

**Sub Divisional Engineer;** Babuganj O&M Sub Division, BWDB, Barisal.

Responsible for data collection and implementation of Ragunathpur FCD Project, Amanatgonj-Charbaria FCD, Panbaria FCD, Mirgonj Babuganj FCD Project, Bahuterdia Babuganj FCD Project, Sikerpur Babuganj FCD Project, Remodeling of primary pump in gravity system under Barisal Irrigation Project. Feasibility Study, preparation of technical reports for approval. In addition to above projects also supervised Saestabad FCD Project, Padrishipur FCD Project's Rehabilitation works along with BiP Colony, Chief Engineer Office, BiP rest house, Residential buildings, RAC Office etc. has been done. During the period prepared cost estimate, tender document, O&M budget, BOQ of the projects.

**From May 1996 To November 1998**

**Sub Divisional Engineer;** Costal Embankment Rehabilitation Project (CERP)

- Responsible for supervision of construction of New Sluices, embankments by mechanical compaction, resectioning of embankment in CEP Polder 40/1,
- River training works in Baleshwar River in co-operation with the consultants like EURO consultant along with DHV consultant. Checked IPC of the contractor and recommended the IPC for payment.

**From July 1994 To April 1996**

**Sub Divisional Engineer;** Teesta Project, Design of Structure as Design Engineer under Design Circle VI

Responsible for hydrological data analysis for the preparation of design like sluices, Syphonic, aqueduct, Re-Excavation of canal, embankment etc.

**From July 1990 To June 1994**

**Sub Divisional Engineer;** System Rehabilitation Project

- Responsible for supervision of different construction works like construction of sluices, inlet structure, embankment.
- Supervision of river training works in polder 58/3 in Monpura, river bank protection of Meghna river, polder 55/1 in Golachipa river bank protection of Agunmoha river in

association with consultants Halcrow and partners Mott MacDonald and DBH. Checked the field estimates, ADP and vetted the same

**From April 1988 To June 1990**

**Assistant Engineer; Planning of different BWDB Projects**

Responsible for review of hydro morphological data for checking draft Feasibility Study report prepared by Engineering and Planning Consultant (EPC), made comments on 21 nos feasibility study report and helped to review the reports. Also responsible for supervision of 21 Feasibility Study Report, prepared by EPC and those reports were checked and updated with Field Officials in series of Field visit.

**From January 1981 To March 1988**

**Assistant Technical Officer; Planning of different BWDB Projects**

Responsible for review of hydrological data along with the topographical survey for the preparation of Feasibility Study report, P.P, PCP etc. of different projects. Preserved the same in the technical library as well as in charge of the library.

**From July 1977 To December 1980**

**Assistant Technical Officer; Barisal Irrigation Project.**

Responsible for preparation of different types of progress reports, send those to higher authority, attend in monthly and other meetings. Submitted land acquisition plan to special land acquisition officer, Barisal for approval. Visited with the carrying contractors in Khulna, Chittagong, Sylhet, Dhaka for collection of M.S Rod, cement, sand, wooden doors and handed over to the carrying contractors to carry up to Barisal BIP Stackyard for issue to the construction contractors. Assisted Executive Engineer in connection with the Technical and Administrative affairs. Visited different construction site with Executive Engineer or alone. Performed routine Official Works. Worked with Consultant NEDECO.

**11. WORK UNDERTAKEN THAT BEST ILLUSTRATES YOUR CAPABILITY TO HANDLE THIS ASSIGNMENT:**

an outline of experience and training most pertinent to the tasks on this assignment, with degree of responsibility held:  
Experience:

- *January 2014 To Date; Hydrologist; Various Assignment of Engineering & Planning Consultants Ltd. (EPC)*
- *September 2011 To August 2012; Senior Engineer, Feasibility Study for West Gopalganj Integrated Water Management Project*
- *January 2011 To August 2011; Junior Construction Supervision Engineer; Emergency 2007 Cyclone Recovery & Restoration Project (ECRRP) at Khepupara, Patuakhali*
- *August 2008 To April 2010; Executive Engineer; Executive Engineer, Barisal O & M Division, BWDB, Barisal, under southern zone.*
- *September 2006 To July 2008; Executive Engineer; Executive Engineer and Deputy Director, Admin. under C.E southern zone, BWDB, Barisal.*
- *August 2004 To October 2006; Sub Divisional Engineer; Sub-Divisional Engineer, Hydrology Subdivision Barisal. Preparation of monthly surface water level data of different rivers under jurisdiction of Southern Zone,*
- *January 2002 To July 2004; Sub Divisional Engineer; Goumadi O&M Subdivision, BWDB, Barisal.*
- *December 1998 To December 2001; Sub Divisional Engineer; Babuganj O&M Sub Division, BWDB, Barisal.*
- *May 1996 To November 1998; Sub Divisional Engineer; Costal Embankment Rehabilitation Project (CERP).*
- *July 1994 To April 1996; Sub Divisional Engineer; Teesta Project, Design of Structure as Design Engineer under Design Circle VI*
- *July 1990 To June 1994; Sub Divisional Engineer; System Rehabilitation Project*
- *April 1988 To June 1990; Assistant Engineer; Planning of different BWDB Projects*
- *January 1981 To March 1988; Assistant Technical Officer; Planning of different BWDB Projects*
- *July 1977 To December 1980; Assistant Technical Officer; Barisal Irrigation Project.*

**Training:**

- Attended Induction Training, Management Training, Training on Discipline, Computer Training (DOS), Training on hydrological survey, sub-soil investigation, etc. under BWDB Training Directorate in 1988.
- Attended training course on Procurement of Goods, Works and Services under Project Aid jointly Organised by Academy for Planning and Development and IMED in Dhaka, 1998.
- Attended training course on Management Planning organized by the Centre for Management Development in Dhaka,

1993.

- Attended special course on computer organized by Computer Education Centre, DATEC Ltd. Dhaka, 1991.
- Attended Training of the Trainers (TOT) course in BWDB under Directorate of Training, 1993
- Organized training programme by SRP Project in different locations of Bangladesh to the Beneficiaries and BWDB field staff SDE, SO, BRDB officers and NGO personnel.

12. COMPUTER SKILLS	: Proficient in basic computer software i.e. Microsoft Office, Internet Exploration, and Hydraulic Modelling Software.
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**CERTIFICATION:**

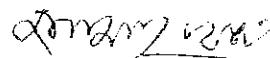
I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I also understand that any willful mis-statement described herein may lead to my disqualification or dismissal, if engaged.

I have been employed by **Engineering & Planning Consultants Ltd. (EPC)** continuously for the last twelve (12) months as regular full time staff. Indicate "Yes" or "No" in the boxes below.

YES

NO

Signature



Date of Signing

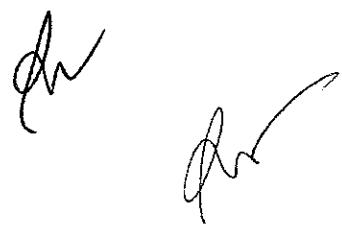
05/06/2017  
Day / Month / Year

**CV No. 6**

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Hydraulic Engineering Specialist  
**Md. Akhtar Husain**





## Form 5A8 : CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

Name of the Consultant	Engineering and Planning Consultants Ltd. (EPC)
RFP IDENTIFICATION NO.	CIB-S-60
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	: Hydraulic Engineering Specialist												
2. NAME OF PERSON	: Md. Akhtar Husain												
3. DATE OF BIRTH	: January 20, 1954												
4. NATIONALITY	: Bangladeshi												
5. MEMBERSHIP IN PROFESSIONAL SOCIETIES	: Member, Institution of Engineers, Bangladesh (M-5639)												
6. EDUCATION	: <ul style="list-style-type: none"> <li>Master of Engineering in Irrigation &amp; Water Management (IWM), University of Roorkee, UP, India (with distinction and Gold Medal), 1992.</li> <li>B.Sc Engineering (WRE), Bangladesh University of Engineering and Technology (BUET), Dhaka, 1977.</li> </ul>												
7. OTHER TRAINING	: <ul style="list-style-type: none"> <li>Visited Japan for witnessing Hydraulic Model test in 2009, organized by Nippon Koei, Japan.</li> <li>Attended 2 (two) workshops on Planning and Management during 1990 and 2006, and another one on Project Management by the Director of Planning-3, organized by BWDB.</li> <li>Attended Workshop on Design of Small Scale Water Control Structures during 1987, organized by North West Hydraulic Consultants.</li> <li>Completed Induction Training for Assistant Engineers on Design, Construction, Rules and Regulations for 9 (Nine) weeks in 1980, organized by Kaptai Engineering Academy, BWDB.</li> </ul>												
8. LANGUAGES AND DEGREE OF PROFICIENCY	: <table> <thead> <tr> <th>Language</th> <th>Speaking</th> <th>Reading</th> <th>Writing</th> </tr> </thead> <tbody> <tr> <td>English</td> <td>Excellent</td> <td>Excellent</td> <td>Excellent</td> </tr> <tr> <td>Bengali</td> <td>Excellent</td> <td>Excellent</td> <td>Excellent</td> </tr> </tbody> </table>	Language	Speaking	Reading	Writing	English	Excellent	Excellent	Excellent	Bengali	Excellent	Excellent	Excellent
Language	Speaking	Reading	Writing										
English	Excellent	Excellent	Excellent										
Bengali	Excellent	Excellent	Excellent										
9. COUNTRIES OF WORK EXPERIENCE	: Bangladesh												
10. EMPLOYMENT RECORD EMPLOYER:	: <p>FROM August 2016 To Date.</p> <p>Hydraulic/RT Engineer, Consultancy Services for Design and Construction Supervision of the Paira Bridge (Lebukhali Bridge) over the River Paira on Barisal Patuakhali Road, Bangladesh (KFAED Loan No. 841)</p> <p>Responsible for:</p> <ul style="list-style-type: none"> <li>Assisting Senior Hydraulic / RT Engineer and carry out duties as assigned and in his absence;</li> <li>Study and Review Contract Drawings and Other Relevant Reports;</li> <li>Assist to Establish Quality Assurance and Preventive Supervision System;</li> <li>Assist to Review and Recommend Contractor's Construction Methodology;</li> <li>Supervision of Construction Works and Stage Approval;</li> <li>Supervision Quality Control Measures;</li> <li>Recommend Renewal / Rectification of Sub-standard Works and Unsatisfactory Materials;</li> <li>Make Proposals for required Modifications in Design and Construction Details to Suit Field Conditions and Issue Amendments on Approval;</li> <li>Carry out Design; Prepare Drawings and Technical Specifications as supplementary Information;</li> <li>Review Working Drawings and make recommendations,</li> <li>Monitor Progress and Contractor's Work Plan;</li> <li>Maintain Accurate Records of all Quality Control Tests including Rejected Works; and</li> <li>Assist in Preparation of Monthly Progress Reports.</li> </ul>												

**FROM September 2013 To February 2015**

**Sr. Hydraulic Engineer/Sr. Quantity Engineer, Consultancy Services for the "Development Phase of Water Management Infrastructure in Bhola District (DWMIB)", funded by NLEVD International (ORIO 11/ BD/ 21) on behalf of the Government of Netherlands.**

Following activities are performed:

- Identification of river bank protection works at Bhola District.
- Drainage system identification, verification and analysis of rainfall water level data.
- Preparation of cost estimate for regulator, river bank protection works, embankment, etc.

**EMPLOYER:**

Resource Planning & Management Consultant (Pvt.) Ltd. (RPCMC)

**FROM May 2011 To April 2012**

**O & M Specialist, Consultancy Services for the "Participatory Small Scale Water Resources Sector Project (PSSWRSP), LGED.**

Following activities were performed:

- Comprehensively conducted impact evaluation study on the socio-economic, irrigation, agriculture and environment of different irrigation projects and identified major problems and constraints of irrigation development.
- To develop O&M Strategy based on recommendations of O&M study.
- To modify existing guidelines and manuals for the practice of O&M by the WMCAs (Water Management Co-operatives Association) as well as the methods of training WMCAs in O&M.
- To review existing LGED procedures for supervising Subproject O&M.
- To review existing training and materials for O&M of WMCAs and LGED field Officials
- To facilitate IWRMU ( Integrated Water Resources Monitoring Unit) of LGED O&M Section in categorizing existing Subprojects for performance enhancement activities.
- To assist LGED Upazila Engineers in developing Subproject Operation plans in Conjunction with WMCAs and similarly for maintenance plans.
- To assist IWRMU O&M Section in imparting on Job training to WMCAs and O&M Sub Committees and also development of O&M training programs for LGED district and Upazila Level personnel.

**EMPLOYER:**

Bangladesh Development (BWDB)

Water Board

**FROM Nov 2010 To Jan 2011**

**Additional Chief Engineer, Various projects under Kabita Program of BWDB in whole Bangladesh.**

Monitored and supervised in preparing the O&M lists for excavation / re-excavation of canals and re-sectioning of embankments. Conducted O&M of submergible embankments, different hydraulic structures, developed O&M strategy and coordinated with Board Management, supervised and monitored the works implemented by different Circles and Divisions of BWDB for Kajer Binimoye Taka (KABITA) program.

**FROM September 2006 to September 2010**

**Superintending Engineer/Project Director, River Training works, Irrigation System Development and O&M of Hydraulic Structures and Irrigation Canals under BWDB**

- Comprehensively conducted impact evaluation study on the socio-economic, irrigation, agriculture and environment of different irrigation projects and identified major problems and constraints of irrigation development.
- Implementation of the Project named "Urgent Rehabilitation of Pumping Facilities Of GK Irrigation Project For Sustaining Rural Economic Development". The Project was implemented by EBARA Corporation, Japan under DRGA and GOB Funding.
- Was involved on implementation of the project of Shagorkhali - Borobela Irrigation and Drainage Project and many R.C.C. structures have been constructed under this Project and other O&M works under different small scale water related projects.
- Was involved in O&M activities of canals and structures and providing irrigation water to the GK Project area covering net 1,42,000ha. irrigation area e.g. in 4 (four) districts of Kushtia, Jhenaidah, Magura and Chuadanga covering 13 (thirteen) upazilas.
- Implementation, Supervision, monitoring and inspection of 12 (Twelve) km River Bank Protection works to protect Kushtia town from the erosion of Gorai River, Maintenance of 3 (Three) nos. Groynes under Kushtia town Protection Project under ADB. 4 (Four)

**identified major problems and constraints of irrigation development.**

- Implementation of 15 (Fifteen) km River Bank Protection work on Ghaghot River to protect Gaibandha town from erosion of Ghaghot River under the Ghaghot Project. Also implemented 410 (Four hundred ten) meters long road bridge over the Ghaghot River under the same project. Implemented 5 (Five) km River Bank Protection work on the bank of mighty River Jamuna under the Project "Protection of Fulchori Bazar and Kamarjani Bazar from the erosion of Jamuna River".
- Supervised O&M works of different FCDI projects associated with irrigation schemes and identify major problems and constraints of irrigation development under Gaibandha Division under Revenue Budget. Conducted O&M of Brahmaputra Right Flood Embankment and also construction of retired Embankment. Preparation of Proposal for Study of Groyne / Spurs on Jamuna River in the jurisdiction of Gaibandha District. Construction of Embankment along the River Korotoa.
- **Quality Control Activities :** During the implementation of the above mentioned Ghaghot Project, 1 (One) 400 meter long Concrete Highway Bridge over the Ghaghot River was constructed. Also, at different places of Ghaghot River, Bank protection works were done and Bank protection works at Fulchari Bazar and Kamarjani Bazar were implemented to protect the 2 (Two) Bazars from erosion of Jamuna River. Quality of the above mentioned work were ensured by the undersigned. All related tests to control the quality of work e.g., Construction material tests, Concrete tests, Reinforcement tests, Cylinder tests, C.C. Block tests, etc. were done under my supervision and presence. All tests were done in the Laboratory of Rangpur Barrage Circle, BWDB, Rangpur. I have made all necessary arrangements for the above mentioned tests for better quality control.

**FROM August 1999 TO July 2000**

**Executive Engineer (Attached to Board Secretariat, BWDB, Dhaka), Various O&M activities of BWDB**

Carried out inquiries of disputes under different O&M Divisions of BWDB. Reviewed and verified Engineering reports of BWDB.

**FROM January 1996 TO July 1999**

**Executive Engineer, Perojpur O&M Division, Various activities in connection with different projects under Perojpur Division of BWDB.**

- Implemented 6 (Six) km River Bank Protection work on Bhandaria River and Bishkhali River. Implemented the construction of Polder No. 2A and constructed 2 nos Regulators, other structures and embankment.
- Supervised and monitored the O&M works of different Coastal Polders of Mathbaria under Perojpur and also Implementation of different structures under O&M budget. Construction and Maintenance works of the embankments under different Coastal Polders. Was involved in O&M of embankments and structures under normal Revenue Budget of Division Office.
- **Quality Control Activities :** During the implementation of 5 (Five) Numbers Syphons at Coastal Polders of Mathbaria and Construction of 25 (Twenty five) km embankments, all Construction material tests, Concrete tests, Reinforcement tests were done under my supervision and presence in the Test Laboratory of R&H and LGED at Perojpur. I have made necessary arrangements for all these quality tests to ensure better quality of work. Also, I ensured the quality of the embankment work.

**FROM August 1993 TO December 1995**

**Executive Engineer, Design-7, Various assignments under BWDB**

Guidance and supervision in preparation of the Project designs under the jurisdiction of Northern Zone of BWDB, Rangpur. The noteworthy design works were design of Spurs and Bank Revetment Works on the River Dharla of Kurigram. Designed repair works of different Spurs of River Jamuna, design of different canal and regulators of Teesta Project, etc. Reviewed and recommended for approval of designs according to the rules of procedure and delegation of financial power.

**FROM November 1990 TO June 1990 and FROM January 1993 TO July 1993**

**Sub-Divisional Engineer, Design-5, Various assignments under BWDB**

Fully engaged in designing various hydraulic structures as for example Regulators, Siphones, etc. I was also engaged in designing embankments, spurs, etc.

— I also reviewed and recommended for approval of designs according to the rules of procedure and delegation of financial power.

• **Study in University of Roorkee, UP, India (From July 1990 - December 1992)**

During the above mentioned time, I was on deputation to University of Roorkee, UP, India for studying Master of Engineering in Irrigation & Water Management (IWM) and I completed the course successfully and got the above degree with distinction and Gold Medal.

**FROM September 1990 TO November 1990**

**Sub-Divisional Engineer, Nalchiti O&M Sub-division, Various assignments of Irrigation related Projects of BWDB**

Was involved in O&M of different canals, structures, embankments under FFW and Revenue Budget. O&M of Barisal Irrigation Project.

**FROM October 1986 TO September 1990**

**Sub-Divisional Engineer, Barisal O&M Sub-division 13, Irrigation System and O&M of different structures of BWDB.**

Was involved in Implementation of Paisarhat - Ramshil FCDI Subproject under Agailjhara Upazila under Barisal. O&M of different Canals Embankment under FFW and Revenue Budget. O&M of Barisal Irrigation Project (BIP).

**Quality Control Activities :** During the implementation of the Paisarhat – Ramshil FCDI Subproject, 4 (Four) numbers Regulators of 3 to 5 vents were implemented under my direct Supervision and to ensure quality of works, all construction material tests, Concrete tests, Reinforcement tests, Piling tests were done in my presence and direct supervision in the RRI Laboratory, BWDB, Faridpur.

**FROM October 1983 TO September 1986**

**Sub-Divisional Engineer, Bhola WD Sub-Division, Construction of Retired Embankment of BWDB**

Construction of retired embankments at different places to protect the Bhola Upazila and Daulatpur Upazila from the flood of Meghna River. Implementation of 360 feet length closure on Darogar Khal under FFW and also other works, e.g. re-sectioning of embankments, construction of retired embankments and small closures, etc. under FFW.

**Quality Control Activities :** I have ensured the quality of works during the construction of retired embankments, 360 meters length closure on Darogar khai, etc.

**FROM September 1980 TO September 1983**

**Sub-Divisional Engineer, Moulvibazar WD Sub-division, Various O&M Activities under BWDB**

- Implemented structures such as Group Regulator, Cross Regulator, Siphone, Box Culvert, Control Structures, Tail Structures, Foot Bridges, etc. and also implemented 50 (Fifty) km embankment (compacted) under Manu River Project financed by Kuwaiti Fund.
- Implementation of different Irrigation canals, e.g. main canal, secondary canals and tertiary canals, etc. and also supervises the construction works of drainage canals and drainage structures.
- Implemented 10 (Ten) km Bank Protection works on Manu River to protect Moulvibazar Town from erosion of Manu River. O&M of canals and structures under normal O&M Revenue Budget of Division Office. Implementation of Works under FFW.
- **Quality Control Activities :** During the implementation of Manu River Project, 5 (Five) nos. Group Regulator, 4 (Four) nos. Cross Regulator, 10 (Ten) nos. Siphone, 18 (Eighteen) nos. Box Culvert, 12 (Twelve) nos. Control Structures, 10 (Ten) nos. Tail Structures, 15 (Fifteen) nos. Foot Bridge, etc. were constructed under my direct supervision on different Irrigation Canals. Also, 16 (Sixteen) nos. different types of drainage structures were constructed under my direct supervision. All related tests to control the quality of the works e.g., Construction material tests, Concrete tests, Reinforcement tests, Cylinder tests, C.C. Block tests, etc. were done under my supervision and presence. All tests were done in the Test Laboratory of the Consultant

Office of the Manu River Project. I have also ensured the quality of the Main, Secondary and Tertiary Irrigation Canals.

**FROM November 1977 TO August 1980**

**Assistant Engineer, Data collection and Report writing under groundwater Division**  
Found out position of ground water table in different districts and also ascertained out groundwater storage of those districts.

**Quality Control Activities :** To ensure the quality of the Water, all Water Quality tests were done in the laboratory of Ground water Circle, BWDB, Dhaka and I was present during all tests.

**11. WORK UNDERTAKEN THAT BEST ILLUSTRATES YOUR CAPABILITY TO HANDLE THIS ASSIGNMENT:**

Outline of Experience and training most pertinent to the tasks on this assignment, with degree of responsibility held:  
**Experience:**

- **August 2016 To Date:** Hydraulic/RT Engineer, Consultancy Services for Design and Construction Supervision of the Paira Bridge (Lebukhali Bridge) over the River Paira on Barisal Patuakhali Road, Bangladesh (KFAED Loan No. 841)
- **September 2013 To Feb 2015:** Sr. Hydraulic Engineer/Sr. Quantity Engineer, Consultancy Services for the "Development Phase of Water Management Infrastructure in Bhola District (DWMIB)", funded by NLEVD International (ORIO 11/ BDI/ 21) on behalf of the Government of Netherlands.
- **May 2011 To April 2012:** O & M Specialist, Consultancy Services for the "Participatory Small Scale Water Resources Sector Project (PSSWRSP), LGED.
- **Nov 2010 To Jan 2011:** Additional Chief Engineer, Various projects under Kabita Program of BWDB in whole Bangladesh.
- **September 2006 to September 2010:** Superintending Engineer /Project Director, River Training works, Irrigation System Development and O&M of Hydraulic Structures and Irrigation Canals under BWDB
- **August 2005 TO Aug 2006:** Executive Engineer, Planning-2, BWDB, Dhaka, South - West Integrated Water Resources Planning and Management Project of BWDB
- **August 2002 TO July 2005:** Executive Engineer, Barisal O&M Division, Irrigation System Construction and O&M of Hydraulic Structures and Embankments under Barisal Irrigation Project of BWDB
- **August 2000 TO March 2002:** Executive Engineer, Gaibandha O&M Division, Flood Control Drainage Improvement and Irrigation System Development under Gaibandha Division of BWDB.
- **August 1999 TO July 2000:** Executive Engineer (Attached to Board Secretariat, BWDB, Dhaka), Various O&M activities of BWDB
- **January 1996 TO July 1999:** Executive Engineer, Perojpur O&M Division, Various under Perojpur Division of BWDB.
- **August 1993 TO December 1995:** Executive Engineer, Design-7, Various assignments under BWDB
- **November 1990 TO June 1990 and FROM January 1993 TO July 1993:** Sub-Divisional Engineer, Design-5, Various assignments under BWDB
- **September 1990 TO November 1990:** Sub-Divisional Engineer, Nalchiti O&M Sub-division, Various assignments of Irrigation related Projects of BWDB
- **October 1986 TO September 1990:** Sub-Divisional Engineer, Barisal O&M Sub-division 13, Irrigation System and O&M of different structures of BWDB.
- **October 1983 TO September 1986:** Sub-Divisional Engineer, Bhola WD Sub-Division, Construction of Retired Embankment of BWDB
- **September 1980 TO September 1983:** Sub-Divisional Engineer, Moulvibazar WD Sub-division, Various O&M Activities under BWDB.
- **November 1977 TO August 1980:** Assistant Engineer, Data collection and Report writing under groundwater Division

**Training:**

Visited Japan for witnessing Hydraulic Model test in 2009, organized by Nippon Koei, Japan.

**12. COMPUTER SKILLS:** Familiar with MS Word, MS Excel.

**CERTIFICATION:**

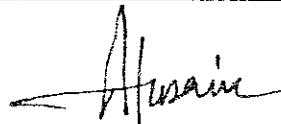
I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I also understand that any wilful mis-statement described herein may lead to my disqualification or dismissal, if engaged.

I have been employed by **Engineering & Planning Consultants Ltd. (EPC)** continuously for the last twelve (12) months as regular full time staff. Indicate "Yes" or "No" in the boxes below:

YES

NO

Signature



Date of Signing

10/06/2017  
Day / Month / Year

**CV No. 7**

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Hydraulic Modeler  
**Md. Jaseem Uddin**

②

Jaseem Uddin

## FORM 5A8 : CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

Name of the Consultant	Soils and Foundations Limited			
RFP IDENTIFICATION NO.	CIB-S-60			
Name of the Client	Local Government Engineering Department (LGED)			
1. PROPOSED POSITION FOR THIS PROJECT	Hydraulic Modeler			
2. NAME OF PERSON	Md. Jaseem Uddin			
3. DATE OF BIRTH	06 November 1967			
4. NATIONALITY	Bangladeshi			
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	Nil			
6. EDUCATION	<ul style="list-style-type: none"> <li>• M. Sc. in Hydraulic Engineering (River Engineering), International Institute for Infrastructural, Hydraulic and Environmental Engineering (IHE), Delft, the Netherlands, 2000.</li> <li>• Thesis work: 'On Training of the Jamuna River': A strategic plan to stabilize the Jamuna River was developed utilizing different types of river training strategies.</li> <li>• B.Sc. in Civil Engineering from BUET in 1991.</li> </ul>			
7. OTHER TRAINING	Nil			
8. LANGUAGE AND DEGREE OF PROFICIENCY	Language Bengali English	Speaking Fluent Excellent	Reading Excellent Excellent	Writing Excellent Excellent
9. COUNTRIES OF WORK EXPERIENCE	Bangladesh			
10. EMPLOYMENT RECORD	<p><b>EMPLOYER:</b> Resource Planning and Management Consultants Ltd (RPMC)</p> <p><b>Project:</b> Bagmati River Basin Improvement Project, Nepal <b>Year:</b> From January 2012 to June 2015 <b>Location:</b> Nepal <b>Client:</b> Water and Energy Commission Secretariat, Nepal <b>Main project features:</b> River training, Flood management, Environmental degradation, Water-shed management. <b>Position held:</b> Hydraulic Modeler <b>Activities performed:</b> Planning and design of flood control, river training, low-flow maintaining structures for different reaches of Upper Bagmati river in Nepal. Development of mathematical model to investigate different development options and identify design parameters.</p> <p><b>EMPLOYER:</b> Institute of Water Modelling (IWM)</p> <p><b>Project:</b> Development of Flood Forecast and Inundation Modelling System in Bagmati-Adhwara Basin <b>Year:</b> 2012 <b>Location:</b> Bihar, India <b>Client:</b> Flood Management Improvement Support Centre (FMISC), Govt. of Bihar. <b>Main project features:</b> Development of flood forecasting system the Bagmati-Adhwara basin. <b>Position held:</b> Team leader and Hydraulic Modeler</p>			

	<p><b>Activities performed:</b> Guide the study team to develop the hydraulic model of the Bagmati Adhwara basin, developing flood inundation modelling. Recommendations for updating the real time data collection network in the basin.</p>
EMPLOYER: Institute of Water Modelling (IWM)	<p><b>Project:</b> Support to Strengthening National Capacity for Flood Risk Reduction and Adaptation to Climate Change Project <b>Year:</b> Jan 2010 to May 2010 <b>Location:</b> Nepal <b>Client:</b> Department of Hydrology &amp; Meteorology (DHM), Nepal through RIMES. <b>Main project features:</b> Development flood forecasting system for the Bagmati river basin through development of mathematical models incorporating high resolution rainfall forecast generated from WRF model. <b>Position held:</b> Flood Management &amp; Hydraulic Specialist <b>Activities performed:</b> Flood risk analysis of lower Bagmati Basin through development flood inundation maps for historical major floods, deign of an appropriate system of flood forecasting for the basin, training of DHM professionals on flood modelling and forecasting.</p>
EMPLOYER: Institute of Water Modelling (IWM)	<p><b>Project:</b> Khatlon Province Flood Risk Management Project <b>Year:</b> 2008 <b>Location:</b> Tajikstan <b>Client:</b> Ministry of Land Reclamation and Water Resources (MoLRWR), Republic of Tajikistan. <b>Main project features:</b> Development of a Flood Management Strategy for flood-prone area of Khatlon Province through a combination of structural and non-structural measures. Planning and design of flood embankment, morphological study, flood forecasting system. <b>Position held:</b> Project Leader (IWM) (2-Months) <b>Activities performed:</b> Review and analysis for existing hydro-meteorological data collection network, recommendations for flood monitoring network and flood model based on hydraulic analysis, flood map generation using GIS tools for vulnerability analysis.</p>
EMPLOYER: Institute of Water Modelling (IWM)	<p><b>Project:</b> Support to National Flood Forecasting and Warning Services under CCA &amp; DRR program of Danida <b>Year:</b> 2008 - 2011 <b>Location:</b> Bangladesh <b>Client:</b> Embassy of Denmark <b>Main project features:</b> CC impact assessment, Salinity forecast, automated data collection using mobile technology, local level flood warning. <b>Position held:</b> Project Leader (IWM) <b>Activities performed:</b> Responsible for leading the study team for development and updating GBM model and analysis of CC scenarios, salinity model updating and forecasting, introduce automated data collection through mobile SMS for FFWC, local level flood forecasting and extent fo flooded area changes due to climate change using MIKE 11 GIS.</p>
EMPLOYER: Bangladesh Water Development Board (BWDB)	<p><b>Project:</b> Mathematical Modelling of Surface Water Flood Control, Drainage and Irrigation. <b>Year:</b> 2010 <b>Location:</b> Bangladesh <b>Client:</b> Bangladesh Water Development Board (BWDB) <b>Main project features:</b> Flood control, drainage, irrigation, sediment management, erosion control. <b>Position held:</b> Deputy Team Leader <b>Activities performed:</b> Lead the mathematical modelling study team for identifying causes of flood/drainage congestion, locations of erosion prone area of the project. Identify measures for flood control, drainage and irrigation improvement in a sustainable way utilizing mathematical / hydraulic modelling tool. Ensure people's participation of in recommending structural measures.</p>

EMPLOYER: <b>Institute of Water Modelling (IWM)</b>	<p><b>Project:</b> Feasibility Study for Flood Control Embankment and River Bank Protection along left bank of Jamuna and right bank of Dhaleswari under Nagarpur and Chowhali.  <b>Year:</b> 2006 -2007  <b>Location:</b> Bangladesh  <b>Client:</b> Bangladesh Water Development Board (BWDB)  <b>Main project features:</b> The overall objective of the project is to provide flood protection by constructing embankment and to provide bank protective measures using river training work against river erosion along the left bank of the Jamuna River and right bank of Dhaleswari River at Nagarpur and Chowhali upazilla.  <b>Position held:</b> Project Leader and Hydraulic Modeller at IWM  <b>Activities performed:</b> Responsible for leading the study team to prepare a comprehensive plan for flood control and bank protection along Jamuna river utilizing mathematical model (1D &amp; 2D), field survey and ensuring peoples' participation. Work included but not limited to developing and updating of the project models to establish baseline hydro-morphological condition of the area, identifying different options for flood control and river training, flood map generation, analysing of impacts of proposed interventions and optimizing of impacts of proposed interventions and optimizing the structures alignment, size, location and design parameters, cost estimate, preparation of structural design of embankment, regulator, revetment for erosion protection and reporting.</p>
EMPLOYER: <b>Institute of Water Modelling (IWM)</b>	<p><b>Project:</b> TA-4562 (BAN): Early Waming System Study.  <b>Year:</b> 2006  <b>Location:</b> Bangladesh  <b>Client:</b> Asian Development Bank (ADB)  <b>Main project features:</b> The objective of the Early Waming System (EWS) Study is to prepare project portfolios and pre-feasibility studies to enhance the existing early waming system. The Early Warming System (EWS) for floods in Bangladesh was developed from the flood forecasting work of BWBD's Flood Forecasting and Waming Center (FFWC).  <b>Position held:</b> Local Hydraulic Modeller and Hydrology Expert  <b>Activities performed:</b> Involved in the review of the past studies like "Flood Hydrology Study" and "Food Management Model" and adaptation of flood forecasting to near real time flood management in FCD, FCDI projects Providing analytical input and preparing project portfolios and pre-feasibility studies to enhance existing early waming system.</p>
EMPLOYER: <b>Institute of Water Modelling (IWM)</b>	<p><b>Project:</b> Mathematical Modelling Study to Support the Haor Rehab. Scheme of BWDB.  <b>Year:</b> 2004 to 2006  <b>Location:</b> Northeast region of Bangladesh  <b>Client:</b> BWDB  <b>Main project features:</b> The objective of the mathematical modeling study is to support the decision makers with a consistent design level of the embankment of Haors and reduce the flood damage problem from pre-monsoon flash floods in a comprehensive and sustainable way.  <b>Position held:</b> Hydraulic Modelling Specialist  <b>Activities performed:</b> Responsible for leading the study team to develop plan for Haor Projects in an integrated way through field survey, hydraulic model study and public consultation process. Formulated option scenarios for alternative project developments and set-up models for the options, impact of proposed interventions. Involved in the analysis of drainage improvement by dredging of the rivers in a sustainable way. Present the results to beneficiaries through public consultation meetings for ensuring people's participation. Analysed the study findings and provided recommendations and wrote project reports.</p>
EMPLOYER: <b>Institute of Water Modelling (IWM)</b>	<p><b>Project:</b> Feasibility Study for Augmentation of Dry Season Flow in the Buriganga River.  <b>Year:</b> 2003 to 2004  <b>Location:</b> Northeast region of Bangladesh  <b>Client:</b> BWDB  <b>Main project features:</b> The main objective of the feasibility study is to develop river system around the Dhaka Metropolitan area and provide round the year flow through rehabilitation and flow augmentation from the Jamuna river. The main project features are river dredging, navigation improvement, design of control structure, river training by bank</p>

	<p>protection and loop-cut, assessment of round the year flow and water quality.</p> <p><b>Position held:</b> Hydraulic &amp; Water Quality Modeller at IWM</p> <p><b>Activities performed:</b> Assisted the study team in planning and designing of river front works, feasibility level design and cost estimate of inlet structure, fish pass structure and bank revetment works for erosion-prone areas. Also investigated water quality issues of the peripheral rivers of Dhaka.</p> <p><b>EMPLOYER:</b> <b>Institute of Water Modelling (IWM)</b></p> <p><b>Project:</b> Integrated Planning for Sustainable Water Management (IPSWAM)2.</p> <p><b>Year:</b> 2007 to 2009</p> <p><b>Location:</b> Southwest region of Bangladesh</p> <p><b>Client:</b> BWDB</p> <p><b>Main project features:</b> Identification of climate change impacts in the flooding and drainage of selected polders of the coastal area of Bangladesh.</p> <p><b>Position held:</b> Hydraulic Modeller</p> <p><b>Activities performed:</b> Develop an update of hydrodynamic model for the internal drainage system and peripheral rivers of selected polders in the southwest region to establish baseline hydraulic condition of the area and to identify impact of Climate Change in the polder drainage. Responsible for guiding the modelling team for updating and validating the Southwest Regional Model incorporating latest hydro-morphological information into the model, preparation of reports.</p> <p><b>EMPLOYER:</b> <b>Institute of Water Modelling (IWM)</b></p> <p><b>Project:</b> Technical Backstopping for FFWC Super Model.</p> <p><b>Year:</b> 2005 to 2007</p> <p><b>Location:</b> Southwest region of Bangladesh</p> <p><b>Client:</b> BWDB</p> <p><b>Main project features:</b> Updating of the hydrodynamic and rainfall-runoff model for flood forecasting purposes.</p> <p><b>Position held:</b> Hydraulic Modeller</p> <p><b>Activities performed:</b> Responsible for updating and validating the Southwest Regional Model (SWRM) incorporating latest hydro-morphological information into the model, preparation of report. Organized on the job training for the client.</p> <p><b>EMPLOYER:</b> <b>Institute of Water Modelling (IWM)</b></p> <p><b>Project:</b> Sundarban Bi-diversity Conservation Project.</p> <p><b>Year:</b> 2001 to 2002</p> <p><b>Location:</b> Southwest region of Bangladesh</p> <p><b>Client:</b> Asian Development Bank</p> <p><b>Main project features:</b> Data collection and model development for the Sundarban area. The data and the model are intended to be useful for identifying sources of pollution, establishing environmental indicators and developing management option to mitigate harmful changes in the water ecosystems of the area.</p> <p><b>Position held:</b> Hydraulic Modeller</p> <p><b>Activities performed:</b> Development and calibration of hydrodynamic and salinity model of the rivers of the Sundarban area to establish the baseline hydraulic condition of the rivers of Sundarban area. Identification of levels of salinity in different part of the Sundarban and identification of impact of fresh water flow in the salinity of Sundarban and surrounding area. Identification of different options for improving environmental condition of the Sundarbans. Responsible for preparation of technical reports.</p> <p><b>EMPLOYER:</b> <b>Bangladesh Water Development Board</b></p> <p></p> <p><b>Project:</b> Design Engineer (SDE) of Bangladesh Water Development Board in Design Circle-2.</p> <p><b>Year:</b> 1993 to 2001</p> <p><b>Location:</b> Different part of Bangladesh</p> <p><b>Client:</b> Bangladesh Water Development Board</p> <p><b>Main project features:</b> Design of flood control, drainage, irrigation, communication, river training, river dredging, and schedule of rates.</p> <p><b>Position held:</b> Sub-Divisional Engineer</p> <p><b>Activities performed:</b> Planning and design of hydraulic structures like drainage regulators, flood embankment, irrigation canals, bridge, culverts, river training works for bank protection and erosion control under different projects of BWDB like Command Area</p>
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Development Project, Pabna (CAD), Khulna-Jessore Drainage Rehabilitation Project, Coastal Embankment Project and other projects of BWDB.

**11. WORK UNDERTAKEN THAT BEST ILLUSTRATES CAPABILITY TO HANDLE THIS ASSIGNMENT:**

Mr. Md. Jaseem Uddin is a M.Sc. in Hydraulic Engineering (River Engineering) with more than 27 years of total professional experience. Also he has more than 15 years of experience in Hydraulic Modelling Specialist under different projects. Some of which relevant experience pertinent to the proposed assignment in this project is as outlined below:

- International River hydraulics and Flood Management Specialist, Bagmati River Basin Improvement Project, Nepal.
- Team leader and Flood Forecasting Modeller, Development of Flood Forecast and Inundation Modelling System in Bagmati-Adhwara Basin
- Flood Management Specialist, Support to Strengthening National Capacity for Flood Risk Reduction and Adaptation to Climate Change Project
- Project Leader (IWM) / Flood Telemetry Specialist, Khatlon Province Flood Risk Management Project
- Project Leader (IWM), Support to National Flood Forecasting and Warning Services under CCA & DRR program of Danida
- Deputy Team Leader, Mathematical Modelling of Sureswar Flood Control, Drainage and Irrigation.
- Leader and Hydraulic Modeller IWM, Feasibility Study for Flood Control Embankment and River Bank Protection along left bank of Jamuna and right bank of Dhaleswari under Nagarpur and Chowdhuri.
- Local Flood Hydrology Expert, TA-4562 (BAN): Early Warning System Study.
- Flood & Drainage Modelling Specialist, Mathematical Modelling Study to Support the Haor Rehab. Scheme of BWDB.
- Design Specialist & Water Quality Modeller, Feasibility Study for Augmentation of Dry Season Flow in the Buriganga River.
- Hydraulic Modeller, Integrated Planning for Sustainable Water Management (IPSWAM)2.
- Hydraulic Modeller, Technical Backstopping for FFWC Super Model.
- Hydraulic Modeller, Sundarban Bi-diversity Conservation Project.
- Sub-Divisional Engineer, Design Engineer (SDE) of Bangladesh Water Development Board in Design Circle-2.

<b>12. COMPUTER SKILLS</b>	:	• Programming Language - Auto LISP, Visual Basic • Software - STAAD Pro, Auto CAD, MS Word, MS Excel
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**CERTIFICATION:**

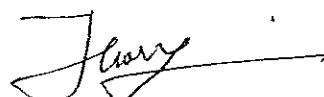
I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I also understand that any willful mis-statement described herein may lead to my disqualification or dismissal, if engaged.

I have been employed by Soils and Foundations Limited continuously for the last twelve (12) months as regular full time staff. Indicate "Yes" or "No" in the boxes below:

YES

NO

Signature



Date of Signing

08/06/2017

Day / Month / Year



**CV No. 8**

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Structural Engineer-1  
**Md. Atikur Rahman**

(A)

dr  
dr

## FORM 5A8 : CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

Name of the Consultant	Soils and Foundations Limited
RFP IDENTIFICATION NO.	CIB-S-60
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	: Structural Engineer-1			
2. NAME OF PERSON	: Md. Atikur Rahman			
3. DATE OF BIRTH	: 01 January 1967			
4. NATIONALITY	: Bangladeshi			
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	: • Life Fellow, Institute of Engineers Bangladesh (F-10415)			
6. EDUCATION	: • B. Sc. in Civil Engineering (RUET), 1989			
7. OTHER TRAINING	: • STAAD-III (Structural analysis and design program) at Research Engineering (Pvt.), Calcutta, India.			
8. LANGUAGE AND DEGREE OF PROFICIENCY	: Language Bengali English	: Speaking Fluent Excellent	: Reading Excellent Excellent	: Writing Excellent Excellent
9. COUNTRIES OF WORK EXPERIENCE	: Bangladesh, Sudan, Afghanistan.			
10. EMPLOYMENT RECORD	:			
EMPLOYER: Soils and Foundations Limited	<p><b>From October 2014 to Date</b>  As Senior Foundation Engineer of the Company involved in foundation design of following bridge projects: Jan 2016 to Jun 2016 (6 months)  Study proposal for Environmental Impact Assessment and Economic Feasibility Study for Eight nos. of bridges under District: Pirojpur, Tangail, Manikganj, Shirajganj, Nowgaon, Netrokona and Study Proposal for one bridge under Rangpur District</p> <p><b>Senior Foundation Engineer</b>  Responsible for coordination of the team work, preparation and review of reports, structural design and drawings. Some major Structures designed are as follows:  Construction of 336.00m Bridge over the Karatoa River on Chatra GC to Gillabari Ghat via Nischintobati Primary School road at Nundaha Ghat under Upazila: Pirganj, District: Rangpur.</p> <p><b>From Jan 2016 to Jun 2016 (6 months)</b>  Study proposal for construction of 4 (Four) Bridges One Bridge over the river Korotoa under Pirganj Upazila, District: Rangpur and Two Bridges over the River Balu under Rupganj Upazila, District: Narayanganj and another one over the river Turag under Savar Upazila, District: Dhaka.</p> <p><b>Structural Engineer</b>  Responsible for coordination of the team work, preparation and review of reports, structural design and drawings. Some major Structures designed are as follows</p> <ul style="list-style-type: none"> <li>• Construction of 294.00m Bridge over the Karatoa River on Joypur Ghat-Gopinathpur Road at Chainage 1500m under Upazila: Pirganj, District: Rangpur.</li> <li>• Construction of 420.00m Bridge (including 300m viaduct) over the Balu River at Ch.00m on Demra GC-Chanpara Beraid via Kamshair under Upazila: Rupganj, District: Narayanganj.</li> </ul>			

- Construction of **320.00m Bridge** (including 200m viaduct) over the Balu River at Ch.00m on Porshi GC – Rupganj-Kayetpara-Demra RHD road under Upazila: Rupganj, District: Narayanganj.
- Construction of **485.00m Bridge** (including 350m viaduct) over the Turag River on Kundia ghat-Primary school Road at Chainage 00m under Upazila: Savar, District: Dhaka.

**From Jan 2016 to Jun 2016 (6 months)**

Study proposal for construction of 3 (Three) Bridges over the River Jhenai (Pungli) under Basail Upazila, District: Tangail

**Structural Engineer**

Responsible for coordination of the team work, preparation and review of reports, structural design and drawings. He was also responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:

- Construction of **295.00m Bridge** over the Jhenai River on Kashil UP Office-Bilpara hat via Kashil High School Road at Chainage 2200m under Upazila: Basail, District: Tangail
- Construction of **220.00m Bridge** over the Jhenai River on Karatia-Jashihati via Dawli Road at Chainage 2600m under Upazila: Basail, District: Tangail.
- Construction of **220.00m Bridge** over the Jhenai River on Natapara NHW – Kanchanpur GC via Kazirpara Road at Chainage 6450m under Upazila: Basail, District: Tangail.

**From Jan 2015 to Jun 2015 (6 months)**

Rangpur Division Rural Infrastructure Improvement Project

**Senior Bridge Engineer cum Team Leader**

Responsible for coordination of the team work, preparation and review of reports, structural design and drawings. He was also responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:

- Construction of RCC Girder Bridge on Kismat Hat GC (Roseya Mosque) Bottali GC via Dhara Road Tandaon River road at Ch. 4+100 Km. (Road ID: 177042008). Upazila: Atwari, District: Panchagar.
- Construction of RCC Girder Bridge on Pathraj Hat (R & H) Gholoy UP Langalngram Road (Damage str WDB). (Road ID: 177253012). Upazila: Boda, District: Panchagar.
- Construction of RCC Girder Bridge on Beltoli – Debigonj road near Binnakuri Bazar over Ishamoti River. (Road ID : 127302001). Upazila: Chirirbandar, District: Dinajpur.
- Construction of RCC Girder Bridge on Palashbari UP Office – Mach boi Hat via Murarpur Hat & Bara Aulia Hat Road, over Choto Dhapa River at Madar hat Road Ch. 4+900 Km.(Road ID: 127123011). Upazila: Birganj, District: Dinajpur.
- Construction of RCC Girder Bridge on Hillirdanga Bazar – Aftabganj R & H Road over Korotoa River at Ch.0+130 Km. (Road ID: 127693019). Upazila: Nawabganj, District: Dinajpur.
- Construction of RCC Girder Bridge on Agrabaliadhichi – Ramjan House Road Gururhatia Road at Ch.0+120 Km. (Road ID: 127074059). Upazila: Birol, District: Dinajpur.
- Construction of RCC Girder Bridge on Parbatipur Puraton Bazar to Bashiar Baniahat Road (Dararpar) at Ch. 2+800 Km. (Road ID: 127774041). Upazila: Parbatipur, District: Dinajpur.
- Construction of RCC Girder Bridge on Ramnagar GC. Mirganj GC. Via Charcharabari Hat Road at Ch.1+745 Km. (Road ID: 1736942013). Upazila: Sadar, District: Nilphamari.
- Construction of RCC Girder Bridge on Kahojakharbari UP Office – Paglapara Road (near Tepraban) at Ch.0+950 Km. (Road ID: 173644040). Upazila: Dimla, District: Nilphamari.

- Construction of RCC Girder Bridge on Milonpur UP Office – Noorpur Ghat Road. (Road ID: 185583035). Upazila: Mithapukur, District: Rangpur.
- Construction of RCC Girder Bridge on Tembulpur UP Office – Talerhat via Jagao Mouza Road. (Road ID: 185733020). Upazila: Pirkacha, District: Rangpur.
- Construction of RCC Girder Bridge on Bishmail – Khalishpur GC. Via Gurgipara Kumedpur Bazaar Road Trimoni Bridge. (Road ID: 185762012). Upazila: Pirkanj, District: Rangpur.
- Construction of RCC Girder Bridge on Janatar hat Bura Burur hat at Ch. 1+500 Km. (Road ID: 149944134). Upazila: Ulipur, District: Kurigram.
- Construction of RCC Girder Bridge on Buruburi bazaar Mirer vita – Moyamari dara Road. (Road ID: 14615091). Upazila: Nageswari, District: Kurigram.
- Construction of RCC Girder Bridge on Buruburi bazaar Mirer vita – Moyamari dara Road. (Road ID: 14615091). Upazila: Nageswari, District: Kurigram.
- Construction of RCC Girder Bridge on road from Kamarpar – Shapkhwa road at Ch. 0+180 Km. (Road ID: 14614019). Upazila: Nageswari, District: Kurigram.
- Construction of RCC Girder Bridge on Fulkumar River Thana Ghithahebgabi border road at Ch. 0+155 Km. (Road ID: 149064020). Upazila: Bhurangamari, District: Kurigram.
- Construction of RCC Girder Bridge on new Shoulmari River Ghat – char Boalmari road at Ch. 1+000 Km. (Road ID: 149794019). Upazila: Rowmari, District: Kurigram.
- Construction of RCC Girder Bridge over Gingiram River on Shandarpura mor – beparipara Guchha Gram (Border hat road) at Ch. 0+480 Km. (Road ID: 149084049). Upazila: Rajibpur, District: Kurigram.
- Construction of RCC Girder Bridge over Ratanai River on Mogol hat PU – Durakuti GC. Road at Ch. 1+200 Km. (Road ID: 152553023). Upazila: Sadar, District: Lalmonirhat.
- Construction of RCC Girder Bridge on Tushbandhan UP – Awaliarhat via Aminganj at Ch. 4+620 Km. (Road ID: 152393001). Upazila: Kaliganj, District: Lalmonirhat.
- Construction of RCC Girder Bridge on Shadur Bazar – Goddimari road at Ch. 2+800 Km. (Road ID: 152333016). Upazila: Hatibandha, District: Lalmonirhat.
- Construction of RCC Girder Bridge on Daikhawa College – Sonar Dhighi Primary School road at Ch. 1+350 Km. (Road ID: 152335074). Upazila: Hatibandha, District: Lalmonirhat.
- Construction of RCC Girder Bridge on Badiakhali R & H road – Junarbari GC. Road at Ch. 15+403 Km. (Road ID: 132882001). Upazila: Saghata, District: Gaibandha.
- Construction of RCC Girder Bridge on Iahariga Channel on Kalitala (RHD) – Bamondanga South Rail Gate (bypass) Road at Ch. 0+700 Km. (Road ID: 132914097). Upazila: Sundarganj, District: Gaibandha.

**From Oct 2014 to Jun 2015 (9 months)**

Feasibility Study and Detailed Engineering Design, Cost Estimate and Tender Document Preparation for Hydrological and Morphological Study & Environmental Impact Assessment (EIA) Including Topographical Survey of 27 Nos. Important Bridges in Some Selected Districts Project.

**Foundation Engineer**

## Responsible for

- Perform field visit
- He will conduct sub-soil investigation
- Analyze sub-soil report
- He will perform foundation design

## For the following bridges:

- Structural design of 245.00m Long PSC Girder Bridge over Titas River on Nurpur GC Kalibari R&H (Simna - B. Baria road) at Ch. 9+600 Km, Road ID: 412132009, Upazilla: Bijoynagar; District: B. Baria  
Span Length: 35.000m
- Structural design of 105.00mm Long PSC Girder Bridge on Dhaka - Aricha Highway at Kalia to Araria Road (Kelia RHD - Vum Dakkhin (Joyomontop GC) at Ch. 9+000 Km, Road ID: 326142010, Upazilla: Dhamrai; District: Dhaka

Span Length: 35.000m

- Structural design of **140.00m PSC Girder Bridge** over Banni River at Madan - Tarail connecting road at Ch. 3+593 Km (Fatepur GC - Tarail GC Road), Road ID: 372562006, Upazil: Madan; District: Netrakona  
Span Length: 28.000m
- Structural design of **96.00m Long PSC Girder Bridge** on RHD Joynagar Bazar to Doulatpur UP road at Ch. 6+200 Km near Sreepur Ghat, Road ID: 127383014, Upazil: Fullbari; District: Dinajpur  
Span Length: 32.000m
- Structural design of **200.00m Long PSC Girder Bridge** over Someshwari River on Dharmapasha - Madha Nagar - Moheshkhola - Takerhat - Lawerghor - Sunamgonj road at Ch. 22+220 Km (Dharmapasha part), Road ID: 690322003, 690322004, 690322006, Upazil: Dharmapasha; District: Sunamgonj  
Span Length: 40.000m
- Structural design of **750.00m Long PSC Girder Bridge** over Jadukata River on Dharmapasha - Madha Nagar - Moheshkhola - Takerhat - Lawerghor - Sunamgonj road at Ch. 20+850 Km (Taherpur), Road ID: 690922006, Upazil: Taherpur; District: Sunamgonj  
Span Length: 50.000m
- Structural design of **75.00m Long RCC Girder Bridge** on Fullbari H/Q to Sujapur (Fullbari GC) road at Ch. 0+250 Km near Sujapur Ghat, Road ID: 127385068, Upazil: Fullbari; District: Dinajpur  
Span Length: 25.000m
- Structural design of **240.00m Long PSC Girder Bridge** over Someswari River on Gawkandia UP Office - Janjail Bazar via Shonkarpur Bazar road at Ch. 13+100 Km, Road ID: 372183009, Upazil: Durgapur; District: Netrakona  
Span Length: 40.000m
- Structural design of **175.00m Long PSC Girder Bridge** over Balajuri River on Nurpur GC - Kalibari R&H (Simna - B. Baria road) at Ch. 1+200 Km, Road ID: 412132009, Upazil: Bijoynagar; District: B. Baria  
Span Length: 35.000m
- Structural design of **315.00m Long PSC Girder Bridge** over Ubdha Khali River on Dharmapasha - Madha Nagar - Moheshkhola - Takerhat - Lawerghor - Sunamgonj road at Ch. 19+800 Km (Dharmapasha part), Road ID: 690322003, 690322004, 690322006, Upazil: Dharmapasha; District: Sunamgonj  
Span Length: 35.000m
- Structural design of **308.00m Long PSC Girder Bridge** over Kushiyara River (Kajua River) on Derai - Dhal - Markuri Bazar road with Bridge at Ch. 8+000 Km, Road ID: 690292004, Upazil: Derai; District: Sunamgonj  
Span Length: 44.000m
- Structural design of **80.00m Long RCC Bridge** on Joaria - Dignagor Bazar road at Ch. 1+200 Km of Faridpur - Barisal regional road, Road ID: 335584042, Upazil: Muksudpur; District: Gopalganj  
Span Length: 16.000m
- Structural design of **45.00m Long RCC Bridge** on Kusli Dharabashail road via Mitrodanga Sonakhali road at Ch. 13+040 Km, Road ID: 335912007, Upazil: Tungipara; District: Gopalganj  
Span Length: 15.000m
- Structural design of **675.00m PSC Girder Bridge** (Two Proposed Bridges at ch. 1+069 Km and ch. 1+700 Km)over Meghna Branch River on Aralia (Muddarkandi) Ghat to Haripur - Rampur UP road at Ch. 1+069 Km, Road ID: 419884004, Upazil: Meghna; District: Comilla  
Span Length: 45.000m
- Structural design of **675.00m PSC Girder Bridge** (Two Proposed Bridges at ch. 1+069 Km and ch. 1+700 Km)over Meghna Branch River on Aralia (Muddarkandi) Ghat to Haripur - Rampur UP road at Ch. 1+069 Km, Road ID: 419884004, Upazil: Meghna; District: Comilla  
Span Length: 45.000m
- Structural design of **245.00m Long PSC Girder Bridge** over Cotker Khal on Nurpur

GC - Kalibari R&H (Simna - B. Baria road) at Ch. 7+700 Km, Road ID: 412132009, Upazil: Bijoynagar; District: B. Baria  
Span Length: 35.000m

- Structural design of 150.00m Long PSC Girder Bridge over Boalia Beel River on Panchabati R&H Road - Akhaura Bazar (Holiday) road at Ch. 6+560Km, Road ID: 412132006, Upazil: Sadar ; District: B. Baria  
Span Length: 30.000m
- Structural design of 440.00m Long PSC Girder Bridge over Patlai River on Takarghat - Kawkandi - Badaghat - Lawrerghor - Sunamganj road, Road ID: 690922003, Upazil: Taherpur; District: Sunamganj  
Span Length: 40.000m
- Structural design of 315.00m PSC Girder Bridge over Buriea River on Netrakona - Dharmapasha - Jamalgonj - Sunamganj Road (Joysheri - Golakpur road via Sukair) at Ch. 0+150 Km, Road ID: 630323002, Upazil: Dharmapasha; District: Sunamganj  
Span Length: 35.000m
- Structural design of 315.00m PSC Girder Bridge over Bowlai River on Netrakona - Dharmapasha - Jamalgonj - Sunamganj road (Jamalgonj - Sunamganj road) ditto at Ch. 7+850 Km (Road ID: 630323002), Upazilla:Dharmapasha; District: Sunamganj  
Span Length: 35.000m
- Structural design of 96.00m PSC Girder Bridge over Mathabanga River on Khadimpur UP - Chuadanga Boro Bazar via Shialmari - Hajrahati Ghat (Alamdanga Part) Road at Ch. 1+500 Km, Road ID: 218073037, Upazil: Alamdanga; District: Chuadanga  
Span Length: 32.000m
- Structural design of 135.00m Long PSC Girder Bridge over Louhajanj River on Niogijoair to Ranagacha Khayaghat Road(ID: 393953007), Upazil: Sadar; District: Tangail  
Span Length: 45.000m
- Structural design of 342.00m Long PSC Girder Bridge over Atrai River of Kalnamor to Kalna Bisnopur near Khayaghat. Upazil: Mohadebpur; District: Naogaon  
Span Length: 38.000m
- Structural design of 440.00m Long PSC Girder Bridge over Kodomtola (Naya Bhagoni) river on Shaestabad GC (Barisal Sadar) - Hizla Upazila HQ via Gazirhat, Kazirhat GC, Miarhat and Ekkotarhat road at Ch. 0+00 Km, Upazil: Mehendigonj; District: Barisal  
Span Length: 40.000m
- Structural design of 294.00m Long PSC Girder Bridge of Shibgonj Bazar - Bagador Bazar road on Atrai River. Upazil: Mohadebpur; District: Naogaon  
Span Length: 42.000m
- Structural design of 175.00m PSC Girder Bridge on Kharkati Bazar - Vhait UP Office Road at Ch. 1+950 Km (ID No. 127303011), Upazil: Chirirbandar; District: Dinajpur  
Span Length: 35.000m
- Structural design of 200.00m PSC Girder Bridge over Madar Tola Khal River on Sonaitola - Katakhali Bazar road at Ch. 4+400 Km, Road ID: 201583003, Upazil: Mongla; District: Bagerhat  
Span Length: 40.000m
- Structural design of 90.00m Long PSC Girder Bridge on Patuakhali Barisal RHD (Pagla) - Pangashia UP via Hazirhat - Dopperhat at Ch. 9+306 Km , Upazil: Dumki; District: Patuakhali  
Span Length: 30.000m

**From May 2014 to July 2014 (03 months)**

Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 02 (Two) Large Bridges in Kurigram District Project Project under LGED and funding agency(ies): Government of Bangladesh.

#### Foundation Engineer

Responsible for

- Perform field visit
- He will conduct sub-soil investigation

- Analyze sub-soil report
- He will perform foundation design

For the following bridges:

- Structural design of 800.000m long Pre-stressed Girder Bridge over Dudhkumar River on Nageswari GC to Katchakata Bazar Road at Nageswari Upazila under Kurigram District. Span Length: 50.000m
- Structural design of 800.000m long Pre-stressed Girder Bridge over Dudhkumar River on Nageswari Shahid Minar to Katchakata Bazar Road via WAPDA Bazar at Nageswari Upazila under Kurigram District. Span Length: 50.000m

**From Feb 2014 to Apr 2014 (03 months)**

Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 02 (Two) Large Bridges in Pirojpur and Tangail Districts Project under LGED and funding agency(ies): Government of Bangladesh.

#### **Foundation Engineer**

Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges: For the following bridges:

- Structural design of 600.000m long Pre-stressed Girder Bridge over Kaliganga River at Nesarabad Upazila under Pirojpur District. Span Length: 40.000m
- Structural design of 600.000m long Pre-stressed Girder Bridge over Dhaleswari River on Tangail Sadar to Charabari to Torabganj to Shahajani GC Road at Sadar Upazila under Tangail District. Span Length: 40.000m

**From Nov 2013 to Jan 2014 (03 months)**

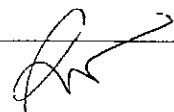
Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 06 (Six) Bridges in Rangpur Division Project under LGED and funding agency(ies): Government of Bangladesh.

#### **Foundation Engineer**

Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges: For the following bridges:

- Structural design of 140.000m long Pre-stressed Girder Bridge over Charalkata River on Niyai UP Office to Beltolir Hat Road at Kishoreganj Upazila under Nilphamari District. Span Length: 28.000m
- Structural design of 120.000m long RCC Girder Bridge over Charalkata River at Chainage 01+980 Km on Sadar Bazar R & H to Panchpukur GC Road at Kishoreganj Upazila under Nilphamari District. Span Length: 24.000m
- Structural design of 125.000m long RCC Girder Bridge over Charalkata River at Chainage 04+000 Km on Mirganj UP H/Q to Baruband Bazar Road at Jaldhaka Upazila under Nilphamari District. Span Length: 25.000m
- Structural design of 100.000m long RCC Girder Bridge over Ghaghari River on Gidari UP Office to Dariapur GC Road at Sadar Upazila under Gaibandha District. Span Length: 20.000m
- Structural design of 120.000m long Pre stressed Girder Bridge over Rotnai River at Chainage 01+000 Km on Mogulhat UP to Durakuti GC Road at Sadar Upazila under Lalmonirhat District. Span Length: 40.000m
- Structural design of 125.000m long RCC Girder Bridge over Jinjiram River at Chainage 02+000 Km on Kartimari GC to Boroibari BOP Camp Road via Bawaigram at Rowmari Upazila under Kurigram District. Span Length: 25.000m





<b>EMPLOYER:</b> Local Government Engineering Department (LGED)	<b>From July 2010 to October, 2013 (40 months)</b> Important Rural Infrastructure Development Project on Priority Basis under LGED and funding agency(ies): Government of Bangladesh.
	<b>Geo-Technical Engineer</b> Responsible for <ul style="list-style-type: none"> <li>▪ Perform field visit</li> <li>▪ He will conduct sub-soil investigation</li> <li>▪ Analyze sub-soil report</li> <li>▪ He will perform foundation design</li> </ul> For the following bridges: <ul style="list-style-type: none"> <li>• 112m long RCC double lane bridges over Bakkali River on Rajarkul UP office to Shikalghat-Kawankope UP road at Ch. 3+400 km under Ramu Upazila, District: Cox's Bazar.</li> <li>• 100m long RCC double lane bridge on Kawkali ghat to Kalisthan road at Ch. 2+000 km under Debiganj upazila, District: Panchagarh.</li> <li>• 99m long PC Girder bridge over Battabobi River on Dhulihor bazar to Suparighata road at Ch. 2+550 km under Sadar Upazila, District: Satkhira.</li> <li>• 75m long RCC double lane bridge on Panchagarh-Atwari-Magura UP-Prodhapara road at Ch. 4+250 km under Sadar upazila, District: Panchagarh.</li> <li>• Double Lane Bridges with different lengths: Bogra(60m), Nilphamari (60m, 42m), Dinajpur (100m, 45m), Sirajganj(65m), Jamalpur (45m) Gaibandha (70m).</li> <li>• Single Lane Bridges with different lengths: Thaklurgaon (42m), Nilphamari (70m, 60m) Panchagarh (100m, 36m, 33m)</li> <li>• Rangpur(65m, 51m, 36m, 33m, 48m, 60m, 30m), Dinajpur (100m, 39m, 45m, 42m, 30m) Bogra (60m, 30m, 51m, 27m, 54m) Joypurhat (60m) Gaibandha (80m) Lalmonirhat (100m, 33m, 70m, 30m), Cox's Bazar (30m, 45m, 60m) Pirojpur (12m, 30m, 60m, 24m) Sirajganj (45m, 36m, 51m, 42m, 51m) Pabna (48m, 60m) Rajshahi (100m, 30m) Chapai Nawabganj (60m) Netrokona (27m) Hobiganj (33m) Jamalpur (45m), Single Lane (Inverted Girder) Bridges with different lengths: Pirojpur (18m, 15m , 12m)</li> <li>• Box Culverts: Pirojpur (3 vent – 4.50m x 4.50m, 2 vent – 4.00m x 4.00m)</li> </ul>
<b>EMPLOYER:</b> Soils and Foundations Ltd.	<b>From Feb 2012 to June 2012 (05 months)</b> Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis, Environmental Impact Assessment Study, Preparation of Bidding Documents for Construction of 3 (Three) nos. Bridges over 3 (Three) different rivers Project under LGED and funding agencies: Government of Bangladesh.
	<b>Foundation Engineer</b> Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges: For the following bridges: <ul style="list-style-type: none"> <li>• Structural design of 341.000m long Pre-stressed Girder Bridge over Dhaleshwary River at Austagram Upazila under Kishoreganj District. Span Length: 31.000m</li> <li>• Structural design of 950.000m long Pre-stressed Girder Bridge over Dharla River at Fulbari Upazila under Kurigram District. Span Length: 50.000m</li> <li>• Structural design of 297.000m long Pre-stressed Girder Bridge over Fulzor River at Ullapara Upazila under Sirajganj District. Span Length: 33.000m</li> </ul> Was responsible for Structural design, drawing, preparation of engineering estimate.
<b>EMPLOYER:</b> Resource Planning & Management Consultants Ltd (RPMC) in association with Hifab International AB and Kranti Associates in a project financed by ADB, JBIC and CIDA implemented by LGED	<b>From March 2009 to January 2012 (35 months)</b> Emergency Disaster Damage Rehabilitation Project -2007 (Part-C: Municipal infrastructure) under LGED and funding agency(ies): ADB, JBIC and CIDA
	<b>Foundation Engineer</b> <ul style="list-style-type: none"> <li>• Foundation design and calculation of geotechnical capacity of foundation of Single &amp; Double Lane Bridges.</li> <li>• Assist the Team leader/Deputy Team Leader in various technical analysis, designs,</li> </ul>

calculations, quantity estimates, preparation of tender documents etc. required for the project.

- Responsible for the design of municipal infrastructures like Drains, Retaining wall, Guide wall/Toe wall & Bituminous/CC Road pavement etc. as required for the Emergency Disaster Damage Rehabilitation project.
- Checking on-going bridge design & drawings and also supervised the works of Auto CAD operators, estimators as and when required for the Project.
- Assist Municipal Engineer, Field Engineer & Assistant Engineer's for the estimate, bill of quantities, rate analysis, supervision and control of design works.
- Top Supervision and solved construction problems with suitable decision.
- During layout solved site problems and give necessary suggestions to Municipal & Field Engineers

**EMPLOYER:**

Majig International Consulting Engineers, Saad Abulela Street, Block # 5, EE House # 6, Khartoum East, Khartoum, Sudan.

**From August 2007 to February 2009 (19 months)**

Responsible for the Khartoum city highway named 60th Street (Length = 8.00 km, Width = 60 m, Lane = 10 sides, 2 drains inside, Both sides sidewalk, 3 layers base course, 2 layers Asphalt concrete).

**Resident Engineer**

Ensure the construction work is accomplished in accordance with the technical specifications and other contract documents.

Identify construction problems and delays and recommend to the Engineer actions to expedite progress if the works fall behind schedule.

Identify construction problems and delays and recommend to the Engineer actions to expedite progress if the works fall behind schedule.

Approve the setting out of the works, after checking the line, level and layout.

Approve materials and sources of materials.

Carry out independent sampling and testing wherever considered necessary or as may otherwise be required to check and verify the accuracy of the test results conducted by the contractor.

Verify the quantities of all items in the BOQ and suggest modifications to the same if necessary as per the prevailing site conditions, for the approval of the employer.

Maintain a day-by-day project diary which shall record all events pertaining to the administration to the contract.

Geometric Design (Horizontal, Vertical alignment) for Africa Street Extension (6.50 km), 60th Street (8.00 km) & El Fadni Street (9.00 km).

**EMPLOYER:**

Creative Consultancy Services, Dhaka

**From December 2005 to July 2007 (20 months)**

Under different projects.

**Foundation Engineer**

Responsible for

- Perform field visit
- He will conduct sub-soil investigation
- Analyze sub-soil report
- He will perform foundation design

For the following bridges:

- Structural design of 419.920m long PSC Girder Bridge over Khatalia river on Homna-Manikarchar-Meghna road under Upazila: Homna, District: Comilla. Owner: LGED, Contractor: COLUMBIA-ISHRAT JV.
- Structural design of 323.920m long PSC Girder Bridge over Matia river on Meghna-Omrakandi-Bhaterchar road under Upazila: Meghna, District: Comilla. Owner: LGED, Contractor: COLUMBIA-ISHRAT JV.
- Structural design of 303.920m long PSC Girder Bridge over Parabandh river on Homna-Manikarchar-Meghna road under Upazila: Meghna, District: Comilla. Owner: LGED, Contractor: NTL-MBL JV.
- Structural design of 293.920m long Pre-stressed Concrete Girder Bridge over the Surma River on the Sylhet – gachbari – Kanaighat Road at Kanaighat Bazar under Upazila: Kanaighat, District: Sylhet. Funded by GOB, Owner: LGED, Contractor: Abdul Monem Limited.

**EMPLOYER:**  
Hifab International in association  
with Resources Planning &  
Management Consultants Ltd.

From December 2003 to November 2005 (24 months)

**Foundation Engineer**

Responsible for

- Perform field visit
- He will conduct sub-soil investigation
- Analyze sub-soil report
- He will perform foundation design

Evaluation of geotechnical capacity for foundation of Single & Double Lane Bridges.  
Assist the Senior Design Consultant, LGED in various technical analysis, designs, calculations, quantity estimates, preparation of tender documents etc. required for the project.

Develop, organize and use computer programs in design, studies, analysis, estimates etc. as required for the Bridge project.

Checking on-going bridge design & drawings and also supervised the works of AutoCAD operators, estimators as and when required for emergency flood Damage Rural Infrastructure Rehabilitation Project.

Assist Assistant Engineer's for the estimate, bill of quantities, rate analysis, supervision and control of design works.

Top Supervision and solved construction problems with suitable decision.

During layout solved site problems and give necessary suggestions to Field Resident Engineers.

Detail Task assined:

Detail hydraulic, structural, foundation design, estimates, BOQ for completed Single & Double lane Bridges within different districts of Bangladesh under Emergency Flood Damage Rehabilitation Projects:

Double Lane Bridges (Carriage way = 5.50m, Total width = 7.30m) with different Span lengths:

- Bogra(75m, 70m, 60m, 54m, 51m, 48m, 45m, 42m, 36m, 33m)
- Nilphamari(70m), Moulvibazar(36m), Gaibandha(54m, 22m)
- Sirajganj(54m), Kishoreganj(48m), Naogaon(51m, Abt Ht. 8m)
- Tangail(57m), Chandpur(30m, 27m), B. Baria(42m)
- Kurigram(51m), Jamalpur(20m, 39m, 51m), Mymensingh(36m)
- Sherpur(51m)

Single Lane Bridges (Carriage way = 3.70m, Total width = 5.10m) with different Span lengths:

- Lalmonirhat(65m), Bogra(80m, 75m, 70m Spill Through Abutment)
- Faridpur(36m), Sirajganj(70m, 33m), Jamalpur(30m), Feni(17m)
- Laxmipur(36m, 27m, 21m, 20m, 14m), Naogaon(30m, 27m, 22m)
- Tangail(57m, 21m), Sherpur(39m), Gaibandha(22m, Abt. Ht. 7m)
- Narshingdi(22m), B. Baria(21m), Panchagarh(51m, 45m)
- Mymensingh (36m, 27m)

Single Lane (Inverted Girder) Bridges with different lengths:

- Narayanganj (54m), Bhola,(20m), Laxmipur (20m)
- 160m long PC Girder bridge over Nandahar River under Banaripara Upazila, District Barisal

From August 2000 to November 2003 (40 months)

Construction of Bridge cum Rubber Dam in Small & Medium Rivers Project.

  
**EMPLOYER:**  
Local Government Engineering  
Department (LGED)

**Foundation Engineer**

Responsible for

- Perform field visit
- He will conduct sub-soil investigation
- Analyze sub-soil report
- He will perform foundation design

For the following bridges:

- 144m long RCC all traffic Bridge (Double Lane) on Brahmaputra River also

	<p>included 54m Long Rubber Dam &amp; 90m Long Weir for irrigation purpose, Upazila : Sonargaon, Dist : Dhaka.</p> <ul style="list-style-type: none"> <li>• 30m Long RCC Girder Bridge (Single Lane), Upazila: Chirirbandar, Dist: Dinajpur.</li> <li>• 45m Long RCC Jeppable bridge on Sonai River, Upazila: Madhabpur, Dist: Sylhet.</li> </ul> <p><b>EMPLOYER:</b> HIFAB International AB, Swedish Consulting Agency.</p> <p><b>From March 1994 to June 2000 (77 months)</b> Planning, hydraulic, structural and foundation design of Large Bridge &amp; Culverts.</p> <p><b>Assistant Design Specialist</b> Worked on Bridges for Lama-Soalock road development project of Bandarban district. Feasibility study, Site selection &amp; fixation of linear water way, Sub-Soil investigation of different standard bridges. Detail estimate, bar bending schedule and prepare tender documents of several bridges, culverts etc. Analysis of rate of different items of Bridge &amp; Culvert.</p> <p><b>EMPLOYER:</b> Northwest Hydraulic Consultants Ltd. Canadian International Development Agency.</p> <p><b>From August 1990 to February 1994 (42 months)</b> Structural design of rehabilitation Appurtenant structure (Regulators, Sluices, embankments, Re-excavation of khals).</p> <p><b>Assistant Engineer (Design)</b> Planning of SSFCDI schemes involving layout of Flood control embankments and Drainage canals. Statistical analysis of rainfall and water level data, area-inundation characteristics of basin, routing etc. Detail feasibility study including planning of works, frequency analysis, socio-economic survey, benefit-cost ratio, economic &amp; financial rate of return, analysis of data, fixation of vantage etc.</p> <p><b>EMPLOYER:</b> Eastern Construction Limited, Dhaka</p> <p><b>From February 1990 to July 1990 (6 months)</b> Multi-storied buildings at Patuakhali Agricultural College, Dumki.</p> <p><b>Assistant Construction Engineer</b> Supervision for construction works of multi-storied buildings at Patuakhali Agricultural College, Dumki.</p>
<p><b>11. WORK UNDERTAKEN THAT BEST ILLUSTRATES YOUR CAPABILITY TO HANDLE THIS ASSIGNMENT:</b> an outline of experience and training most pertinent to the tasks on this assignment, with degree of responsibility held:</p> <p>Md. Atikur Rahman is a graduate Civil Engineer with more than 26 years of total professional experience in the field of planning and design works of various civil engineering projects under various organizations especially with LGED in Bangladesh. Also he has more than 14 years of experience in large bridge designing under different projects of LGED Some of which relevant experience pertinent to the proposed assignment in this project is as outlined below:</p> <p><b>Experience:</b></p> <ul style="list-style-type: none"> <li>• Senior Foundation Engineer, Study proposal for Environmental Impact Assessment and Economic Feasibility Study for Eight nos. of bridges under District: Pirojpur, Tangail, Manikganj, Shirajganj, Nowgaon, Netrokona and Study Proposal for one bridge under Rangpur District (Jan 2016 to Jun 2016)</li> <li>• Structural Engineer, (Study proposal for construction of 4 (Four) Bridges One Bridge over the river Korotoa under Pirganj Upazila, District: Rangpur and Two Bridges over the River Balu under Rupganj Upazila, District: Narayanganj and another one over the river Turag under Savar Upazila, District: Dhaka. (Jan 2016 to Jun 2016)</li> <li>• Structural Engineer, Study proposal for construction of 3 (Three) Bridges over the River Jhenai (Pungli) under Basail Upazila, District: Tangail (Jan 2016 to Jun 2016)</li> <li>• Senior Bridge Engineer cum Team Leader, Rangpur Division Rural Infrastructure Improvement Project . Jan 2015 to Jun 2015 (6 months)</li> <li>• Foundation Engineer, Feasibility Study and Detailed Engineering Design, Cost Estimate and Tender Document Preparation for Hydrological and Morphological Study &amp; Environmental Impact Assessment (EIA) Including Topographical Survey of 27 Nos. Important Bridges in Some Selected Districts Project Oct 2014 to Jun 2015 (9 months)</li> <li>• Foundation Engineer, Feasibility Study in Terms of Hydrological and Morphological Study, Techno-Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey &amp; Design of Important 02 (Two) Large</li> </ul>	

Bridges in B. Baria and Cox's Bazar Districts Project. Aug 2014 to Sep 2014(02 months)

- Foundation Engineer, Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 02 (Two) Large Bridges in Kurigram District Project. May 2014 to July 2014 (03 months)
- Foundation Engineer, Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 02 (Two) Large Bridges in Pirojpur and Tangail Districts Project. Feb 2014 to Apr 2014(03 months)
- Foundation Engineer, Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 06 (Six) Bridges in Rangpur Division Project. Nov 2013 to Jan 2014 (03 months)
- Foundation Engineer, Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis, Environmental Impact Assessment Study, Preparation of Bidding Documents for Construction of 3 (Three) nos. Bridges over 3 (Three) different rivers Project under LGED and funding agency(ies): Government of Bangladesh. Feb 2012 to June 2012 (05 months)
- Foundation Engineer, Emergency Disaster Damage Rehabilitation Project -2007 (Part-C: Municipal infrastructure) under LGED and funding agency(ies): ADB, JBIC and CIDA. March 2009 to January 2012 (35 months)
- Foundation Engineer, Different Project. December 2005 to July 2007 (20 months)
- Foundation Engineer, 1) Develop, organize and use computer programs in design, studies, analysis, estimates etc. as required for the Bridge project. 2) Checking on-going bridge design & drawings and also supervised the works of AutoCAD operators, estimators as and when required for emergency flood Damage Rural Infrastructure Rehabilitation Project. 3) Detail hydraulic, structural, foundation design, estimates, BOQ for completed Single & Double lane Bridges within different districts of Bangladesh under Emergency Flood Damage Rehabilitation Projects. December 2003 to November 2005 (24 months)
- Foundation Engineer, Construction of Bridge cum Rubber Dam in Small & Medium Rivers Project. August 2000 to November 2003 (40 months)

**Training:**

- STAAD-III (Structural analysis and design program) at Research Engineering (Pvt.), Calcutta, India.

(Brief description of duties carried out under each project is given under Para 10 above)

12. COMPUTER SKILLS	: Auto CAD, MS Word, MS Excel, Internet Browsing etc.
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**CERTIFICATION:**

I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I also understand that any willful mis-statement described herein may lead to my disqualification or dismissal, if engaged.

I have been employed by Soils and Foundations Limited continuously for the last twelve (12) months as regular full time staff. Indicate "Yes" or "No" in the boxes below:

YES

NO

Signature



Date of Signing

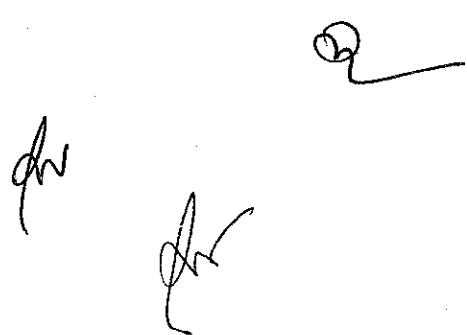
10/06/2017

Day / Month / Year

**CV No. 9**

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Structural Engineer-2  
**Md. Abdul Alim**

A handwritten signature in black ink, appearing to read "Md. Abdul Alim". The signature is fluid and cursive, with a stylized 'M' at the beginning.

## FORM 5A8 : CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

Name of the Consultant	Soils and Foundations Limited
RFP IDENTIFICATION NO.	CIB-S-60
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	: Structural Engineer-2												
2. NAME OF PERSON	: Md. Abdul Alim												
3. DATE OF BIRTH	: 01 January, 1984												
4. NATIONALITY	: Bangladeshi												
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	: Member of Institute of Engineers, Bangladesh (MIEB-22949) RAJUK Enlistment No. DMINB- CE/0246.												
6. EDUCATION	: <ul style="list-style-type: none"> <li>M.Sc Engineering (Geotechnical) from Bangladesh University of Engineering &amp; Technology (BUET), Passing Year- 2012.</li> <li>B.Sc Engineering from Bangladesh University of Engineering &amp; Technology (BUET), Passing Year- 2006.</li> </ul>												
7. OTHER TRAINING	: Member, BUET Rover Scout Group, Dhaka.												
8. LANGUAGE AND DEGREE OF PROFICIENCY	: <table> <thead> <tr> <th>Language</th> <th>Speaking</th> <th>Reading</th> <th>Writing</th> </tr> </thead> <tbody> <tr> <td>Bengali</td> <td>Fluent</td> <td>Excellent</td> <td>Excellent</td> </tr> <tr> <td>English</td> <td>Excellent</td> <td>Excellent</td> <td>Excellent</td> </tr> </tbody> </table>	Language	Speaking	Reading	Writing	Bengali	Fluent	Excellent	Excellent	English	Excellent	Excellent	Excellent
Language	Speaking	Reading	Writing										
Bengali	Fluent	Excellent	Excellent										
English	Excellent	Excellent	Excellent										
9. COUNTRIES OF WORK EXPERIENCE	: Bangladesh												
10. EMPLOYMENT RECORD	: <p><b>EMPLOYER:</b> Soils and Foundations Limited</p> <p><b>From January 2010 to Date</b> As Survey Expert of the Company involved in survey works of following bridge projects Jan 2016 to Jun 2016 (6 months) Study proposal for Environmental Impact Assessment and Economic Feasibility Study for Eight nos. of bridges under District: Pirojpur, Tangail, Manikganj, Shirajganj, Nowgaon, Netrokona and Study Proposal for one bridge under Rangpur District under LGED</p> <p><b>Structural Engineer</b> Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:</p> <ul style="list-style-type: none"> <li>Construction of 336.00m Bridge over the Karatoa River on Chatra GC to Gillabari Ghat via Nischintobati Primary School road at Nundaha Ghat under Upazila: Pirganj, District: Rangpur.</li> </ul> <p><b>From Jan 2016 to Jun 2016 (6 months)</b> Study proposal for construction of 4 (Four) Bridges One Bridge over the river Korotoa under Pirganj Upazila, District: Rangpur and Two Bridges over the River Balu under Rupganj Upazila, District: Narayanganj and another one over the river Turag under Savar Upazila, District: Dhaka under LGED.</p> <p><b>Structural Engineer</b> Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:</p> <ul style="list-style-type: none"> <li>Construction of 294.00m Bridge over the Karatoa River on Joynapur Ghat-Gopinathpur Road at Chainage 1500m under Upazila: Pirganj, District: Rangpur.</li> <li>Construction of 420.00m Bridge (including 300m viaduct) over the Balu River at</li> </ul>												

Ch.00m on Demra GC-Chanpara Beraid via Kamshair under Upazila: Rupganj, District: Narayanganj.

- Construction of 320.00m Bridge (including 200m viaduct) over the Balu River at Ch.00m on Porshi GC – Rupganj-Kayetpara-Demra RHD road under Upazila: Rupganj, District: Narayanganj.
- Construction of 485.00m Bridge (including 350m viaduct) over the Turag River on Kundia ghat-Primary school Road at Chainage 00m under Upazila: Savar, District: Dhaka.

#### **From Jan 2016 to Jun 2016 (6 months)**

Study proposal for construction of 3 (Three) Bridges over the River Jhenai (Pungli) under Basail Upazila, District: Tangail under LGED

#### **Structural Engineer**

Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:

- Construction of 295.00m Bridge over the Jhenai River on Kashil UP Office-Bilpara hat via Kashil High School Road at Chainage 2200m under Upazila: Basail, District: Tangail.
- Construction of 220.00m Bridge over the Jhenai River on Karatia-Jashihati via Dawli Road at Chainage 2600m under Upazila: Basail, District: Tangail.
- Construction of 220.00m Bridge over the Jhenai River on Natiapara NHW – Kanchanpur GC via Kazirpara Road at Chainage 6450m under Upazila: Basail, District: Tangail.

#### **From Oct 2014 to Jun 2015 (9 months)**

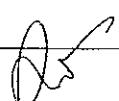
Hydrological and Morphological Study & Environmental Impact Assessment (EIA) including Topographical Survey of 27 nos. important bridges in some selected district project under LGED.

#### **Structural Engineer**

Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:

- Structural design of 245.00m Long PSC Girder Bridge over Titas River on Nurpur GC Kalibari R&H (Simna - B. Baria road) at Ch. 9+600 Km, Road ID: 412132009, Upazilla: Bijoynagar; District: B. Baria  
Span Length: 35.000m
- Structural design of 105.00mm Long PSC Girder Bridge on Dhaka - Aricha Highway at Kalia to Araria Road (Kelia RHD - Vum Dakkhin (Joyomontop GC) at Ch. 9+000 Km, Road ID: 326142010, Upazilla: Dhamrai; District: Dhaka  
Span Length: 35.000m
- Structural design of 140.00m PSC Girder Bridge over Banni River at Madan - Tarail connecting road at Ch. 3+593 Km (Fatepur GC - Tarail GC Road), Road ID: 372562006, Upazilla: Madan; District: Netrakona  
Span Length: 28.000m
- Structural design of 96.00m Long PSC Girder Bridge on RHD Joynagar Bazar to Doulatpur UP road at Ch. 6+200 Km near Sreepur Ghat, Road ID: 127383014, Upazilla: Fullbari; District: Dinajpur  
Span Length: 32.000m
- Structural design of 200.00m Long PSC Girder Bridge over Someshwari River on Dharmapasha - Madha Nagar - Moheshkhola - Takerhat - Lawerghor - Sunamgonj road at Ch. 22+220 Km (Dharmapasha part), Road ID: 690322003, 690322004, 690322006, Upazilla: Dharmapasha; District: Sunamgonj  
Span Length: 40.000m
- Structural design of 750.00m Long PSC Girder Bridge over Jadukata River on





Dharmapasha - Madha Nagar - Moheshkhola - Takerhat - Lawerghor - Sunamgonj road at Ch. 20+850 Km (Taherpur), Road ID: 690922006, Upazill: Taherpur; District: Sunamgonj

Span Length: 50.000m

- Structural design of **75.00m Long RCC Girder Bridge** on Fullbari H/Q to Sujapur (Fullbari GC) road at Ch. 0+250 Km near Sujapur Ghat, Road ID: 127385068, Upazill: Fullbari; District: Dinajpur

Span Length: 25.000m

- Structural design of **240.00m Long PSC Girder Bridge** over Someswari River on Gawkandia UP Office - Janjail Bazar via Shonkarpur Bazar road at Ch. 13+100 Km, Road ID: 372183009, Upazill: Durgapur; District: Netrakona

Span Length: 40.000m

- Structural design of **175.00m Long PSC Girder Bridge** over Balaijuri River on Nurpur GC - Kalibari R&H (Simna - B. Baria road) at Ch. 1+200 Km, Road ID: 412132009, Upazill: Bijoynagar; District: B. Baria

Span Length: 35.000m

- Structural design of **315.00m Long PSC Girder Bridge** over Ubdha Khali River on Dharmapasha - Madha Nagar - Moheshkhola - Takerhat - Lawerghor - Sunamgonj road at Ch. 19+800 Km (Dharmapasha part), Road ID: 690322003, 690322004, 690322006, Upazill: Dharmapasha; District: Sunamgonj

Span Length: 35.000m

- Structural design of **308.00m Long PSC Girder Bridge** over Kushiyara River (Kajua River) on Derai - Dhal - Markurli Bazar road with Bridge at Ch. 8+000 Km, Road ID: 690292004, Upazill: Derai; District: Sunamgonj

Span Length: 44.000m

- Structural design of **80.00m Long RCC Bridge** on Joaria - Dignagor Bazar road at Ch. 1+200 Km of Faridpur - Barisal regional road, Road ID: 335584042, Upazill: Muksudpur; District: Gopalgonj

Span Length: 16.000m

- Structural design of **45.00m Long RCC Bridge** on Kusii Dharabashail road via Mitrodanga Sonakhali road at Ch. 13+040 Km, Road ID: 335912007, Upazill: Tungipara; District: Gopalgonj

Span Length: 15.000m

- Structural design of **675.00m PSC Girder Bridge** (Two Proposed Bridges at ch. 1+069 Km and ch. 1+700 Km) over Meghna Branch River on Aralia (Muddarkandi) Ghat to Haripur - Rampur UP road at Ch. 1+069 Km, Road ID: 419884004, Upazill: Meghna; District: Comilla

Span Length: 45.000m

- Structural design of **675.00m PSC Girder Bridge** (Two Proposed Bridges at ch. 1+069 Km and ch. 1+700 Km) over Meghna Branch River on Aralia (Muddarkandi) Ghat to Haripur - Rampur UP road at Ch. 1+069 Km, Road ID: 419884004, Upazill: Meghna; District: Comilla

Span Length: 45.000m

- Structural design of **245.00m Long PSC Girder Bridge** over Cotker Khal on Nurpur GC - Kalibari R&H (Simna - B. Baria road) at Ch. 7+700 Km, Road ID: 412132009, Upazill: Bijoynagar; District: B. Baria

Span Length: 35.000m

- Structural design of **150.00m Long PSC Girder Bridge** over Boalia Beel River on Panchabati R&H Road - Akhaura Bazar (Heliday) road at Ch. 6+560Km, Road ID: 412132006, Upazill: Sadar ; District: B. Baria

Span Length: 30.000m

- Structural design of **440.00m Long PSC Girder Bridge** over Patlai River on Takarghat - Kawkandi - Badaghat - Lawrerghor - Sunamgonj road, Road ID: 690922003, Upazill: Taherpur; District: Sunamganj

Span Length: 40.000m

- Structural design of **315.00m PSC Girder Bridge** over Buriea River on Netrakona - Dharmapasha - Jamalgonj - Sunamgonj Road (Joysheri - Golakpur road via Sukair) at

Ch. 0+150 Km, Road ID: 630323002, Upazil: Dharmapasha; District: Sunamganj  
Span Length: 35.000m

- Structural design of 315.00m PSC Girder Bridge over Bowlai River on Netrakona - Dharmapasha - Jamalgonj - Sunamganj road (Jamalgonj - Sunamganj road) ditto at Ch. 7+850 Km (Road ID: 630323002), Upazilla: Dharmapasha; District: Sunamganj Span Length: 35.000m
- Structural design of 96.00m PSC Girder Bridge over Mathabanga River on Khadimpur UP - Chuadanga Boro Bazar via Shialmarai - Hajrahati Ghat (Alamdanga Part) Road at Ch. 1+500 Km, Road ID: 218073037, Upazil: Alamdanga; District: Chuadanga Span Length: 32.000m
- Structural design of 135.00m Long PSC Girder Bridge over Louhajanj River on Niogijoair to Ranagacha Khayaghat Road(ID: 393953007), Upazil: Sadar; District: Tangail Span Length: 45.000m
- Structural design of 342.00m Long PSC Girder Bridge over Atrai River of Kalnamor to Kalna Bisnoper near Khayaghat. Upazil: Mohadebpur; District: Naogaon Span Length: 38.000m
- Structural design of 440.00m Long PSC Girder Bridge over Kodomtola (Naya Bhagoni) river on Shaestabad GC (Barisal Sadar) - Hizla Upazila HQ via Gazirhat, Kazirhat GC, Miarhat and Ekkotarhat road at Ch. 0+00 Km, Upazil: Mehendigonj; District: Barisal Span Length: 40.000m
- Structural design of 294.00m Long PSC Girder Bridge of Shibgonj Bazar - Bagador Bazar road on Atrai River. Upazil: Mohadebpur; District: Naogaon Span Length: 42.000m
- Structural design of 175.00m PSC Girder Bridge on Kharkati Bazar - Vhait UP Office Road at Ch. 1+950 Km (ID No. 127303011), Upazil: Chirirbandar; District: Dinajpur Span Length: 35.000m
- Structural design of 200.00m PSC Girder Bridge over Madar Tola Khal River on Sonaitola - Katakhali Bazar road at Ch. 4+400 Km, Road ID: 201583003, Upazil: Mongla; District: Bagerhat Span Length: 40.000m
- Structural design of 90.00m Long PSC Girder Bridge on Patuakhali Barisal RHD (Pagla) - Pangashia UP via Hazirhat - Doparhat at Ch. 9+306 Km , Upazil: Dumki; District: Patuakhali Span Length: 30.000m

#### From Aug 2014 to Sep 2014 (02 months)

Feasibility Study in Terms of Hydrological and Morphological Study, Techno-Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 02 (Two) Large Bridges in B. Baria and Cox's Bazar Districts Project under LGED.

#### Structural Engineer

Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:

- Structural design of 175.000m long Pre-stressed Girder Bridge over Bankkhali River on Kalghar Bazaar to Rajarkul UP Road at Ramu Upazila under Cox's Bazar District.  
Span Length: 35.000m
- Structural design of 225.000m long Pre-stressed Girder Bridge over Titas River on Bitghar GC to B. Baria R & H Road via Kurighar Hat at Nabinagar Upazila under B. Baria District.  
Span Length: 25.000m

#### From May 2014 to July 2014 (03 months)

Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis

and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 02 (Two) Large Bridges in Kurigram District Project under LGED.

#### Structural Engineer

Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:

- Structural design of 800.000m long Pre-stressed Girder Bridge over Dudhkumar River on Nageswari GC to Katchakata Bazar Road at Nageswari Upazila under Kurigram District.  
Span Length: 50.000m
- Structural design of 800.000m long Pre-stressed Girder Bridge over Dudhkumar River on Nageswari Shahid Minar to Katchakata Bazar Road via WAPDA Bazar at Nageswari Upazila under Kurigram District.  
Span Length: 50.000m

#### From Feb 2014 to Apr 2014 (03 months)

Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 02 (Two) Large Bridges in Pirojpur and Tangail Districts Project under LGED.

#### Structural Engineer

Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:

- Structural design of 600.000m long Pre-stressed Girder Bridge over Kaliganga River at Nesarabad Upazila under Pirojpur District.  
Span Length: 40.000m
- Structural design of 600.000m long Pre-stressed Girder Bridge over Dhaleswari River on Tangail Sadar to Charabari to Torabganj to Shahajani GC Road at Sadar Upazila under Tangail District.  
Span Length: 40.000m

#### From Dec 2013 to Jan 2014 (02 months)

Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 06 (Six) Bridges in Rangpur Division Project under LGED.

#### Structural Engineer

Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:

- Structural design of 140.000m long Pre-stressed Girder Bridge over Charalkata River on Niyai UP Office to Beltolir Hat Road at Kishoreganj Upazila under Nilphamari District.  
Span Length: 28.000m
- Structural design of 120.000m long RCC Girder Bridge over Charalkata River at Chainage 01+980 Km on Sadurar Bazar R & H to Panchpukur GC Road at Kishoreganj Upazila under Nilphamari District.  
Span Length: 24.000m
- Structural design of 125.000m long RCC Girder Bridge over Charalkata River at Chainage 04+000 Km on Mirganj UP H/Q to Baruband Bazar Road at Jaldhaka Upazila under Nilphaman District.  
Span Length: 25.000m
- Structural design of 100.000m long RCC Girder Bridge over Ghaghata River on Gidari UP Office to Dariapur GC Road at Sadar Upazila under Gaibandha District.  
Span Length: 20.000m

- Structural design of 120.000m long Pre stressed Girder Bridge over Rotnai River at Chainage 01+000 Km on Mogulhat UP to Durakuti GC Road at Sadar Upazila under Lalmonirhat District.  
Span Length: 40.000m
- Structural design of 125.000m long RCC Girder Bridge over Jinjiram River at Chainage 02+000 Km on Kartimari GC to Boroibari BOP Camp Road via Bawaigram at Rowmari Upazila under Kurigram District.  
Span Length: 25.000m

**From May 2013 to July 2013 (03 months)**

Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 05 (Five) Large Bridges in Netrakona District Project under LGED.

**Structural Engineer**

Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:

- Structural design of 224.000m long Pre-stressed Girder Bridge over Mohadew River at Chainage 08+600 on Kalmakanda – Baruakona – Lengura Road at Kalmakanda Upazila under Netrakona District.  
Span Length: 32.000m
- Structural design of 150.000m long Pre-stressed Girder Bridge over Ganneshwari River at Chainage 21+230 on Kalmakanda – Baruakona – Lengura Road at Kalmakanda Upazila under Netrakona District.  
Span Length: 30.000m
- Structural design of 110.000m long RCC Girder Bridge over Gonai River at Chainage 03+025 on Shidli UP Office to Pagla Bazar Road at Kalmakanda Upazila under Netrakona District.  
Span Length: 22.000m
- Structural design of 110.000m long RCC Girder Bridge over Someshwari River at Chainage 11+800 on Zanjail GC to Shidli GC Road via Abbasnagar at Durgapur Upazila under Netrakona District.  
Span Length: 22.000m
- Structural design of 125.000m long RCC Girder Bridge over Someshwari River at Chainage 02+500 on Chandigarh UP Office to Boround Bazar Road via Keronkhola Ferry Ghat and Fulpur Bazar at Durgapur Upazila under Netrakona District.  
Span Length: 25.000m

**From Jul 2012 to Sep 2012 (03 months)**

Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 04 (Four) Large Bridges in Jamalpur District Project under LGED.

**Structural Engineer**

Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:

- Structural design of 210.000m long Pre-stressed Girder Bridge over Dashani River at Chainage 0+100 on Jabbarganj GC to Dewanganj Road at Baksiganj Upazila under Jamalpur District.  
Span Length: 30.000m
- Structural design of 585.000m long Pre-stressed Girder Bridge over Old Bramhaputra River at Chainage 3+500 on Jabbarganj GC to Dewanganj Road at Baksiganj Upazila under Jamalpur District.  
Span Length: 45.000m
- Structural design of 100.000m long RCC Girder Bridge over Branch of Old Bramhaputra River at Chainage 6+500 on Jabbarganj GC to Dewanganj Road at

Dewanganj Upazila under Jamalpur District.

Span Length: 20.00m

- Structural design of 125.000m long RCC Girder Bridge over Chapar Beel at Chainage 16+500 on Basedpur to Chokharchar via Saljadpur Road at Dewanganj Upazila under Jamalpur District.
- Span Length: 25.00m

#### **From Feb 2012 to June 2012 (05 months)**

Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis, Environmental Impact Assessment Study, Preparation of Bidding Documents for Construction of 3 (Three) nos. Bridges over 3 (Three) different rivers Project under LGED.

#### **Structural Engineer**

Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:

- Structural design of 341.000m long Pre-stressed Girder Bridge over Dhaleshwary River at Austagram Upazila under Kishoreganj District.  
Span Length: 31.00m
- Structural design of 950.000m long Pre-stressed Girder Bridge over Dharla River at Fulbari Upazila under Kurigram District.  
Span Length: 50.00m
- Structural design of 297.000m long Pre-stressed Girder Bridge over Fulzor River at Ullapara Upazila under Sirajganj District.  
Span Length: 33.00m

#### **From Aug 2011 to Sep 2011 (02 months)**

Greater Rangpur and Dinajpur District Rural Communication and other Infrastructure Improvement Project (GRDP) under LGED:

Construction of Kailasganj – Shankardah – Kakina Road (Eastern Part of 850m Long Teesta Bridge Access Road)

#### **Structural Engineer**

Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:

- Structural design of 105.000m long RCC Girder Bridge on Kailasganj – Shankardah – Kakina Road at Kaliganj Upazila under Lalmonirhat District.
- Structural design of 48.000m long RCC Girder Bridge on Kailasganj – Shankardah – Kakina Road at Kaliganj Upazila under Lalmonirhat District.

#### **From Jan 2011 to July 2011 (07 months)**

Greater Rangpur and Dinajpur District Rural Communication and other Infrastructure Improvement Project (GRDP) under LGED.

#### **Structural Engineer**

Responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:

- Structural design of 1490.000m long Pre-stressed Girder Bridge over Teesta River on Panchpir Bazar – Chilmari Upazila Head Quarter Road at Sundarganj Upazila under Gaibandha District.
- Structural design of 850.000m long Pre-stressed Girder Bridge over Teesta River on Gangachara – Burihat – Mohipur – Shankardah – Kaliasganj – Kakina Road at Gangachara Upazila under Rangpur District.

#### **From Jan 2010 to Dec 2010 (12 months)**

Development of Public Priority Upazila Road Project of Local Government and Engineering

**Department (LGED)****Survey Expert**

Responsible for all kinds of survey works are as follows:

- Construction of 378.40m Long Pre-stressed Girder Bridge over Maya River on Anjurhat-Charmanika-Dolarhat Road, Upazila: Charfession, District: Bhola.
- Construction of 504.550m Long Pre-stressed Girder Bridge over Gorai River at Kushtia Sadar Upazila under Kushtia
- Construction of 273.300m Long Pre-stressed Girder Bridge over Banshi River on Sutipara-Roail-Futnagar-Savar connecting Road. Upazila: Dhamrai, District: Dhaka
- Construction of 185.200m Long Pre-stressed Girder Bridge over Someswari River at Jhenaigati Upazila under Sherpur District

**EMPLOYER:**  
Askan Developments Ltd.

**From Jan 2007 to Dec 2009 (36 months)**

- Arma Tower (15 Level) at Afternogor Rampura, Dhaka. Residential building.
- Askan Developments Ltd. (18 storied) at jatrabari, Dhaka. Bangladesh.
- Brick & Stone properties Ltd. (9 Storied) at west kafrul taltola Dhaka. Bangladesh.
- Neptune dream land (10 Storied), at noyabri Saver Dhaka. Bangladesh.
- Dhaka which including zone Service Building, Factory Buildings, Ware House, Staff Quarters, fire Station, Medical center, police out post, barrack, R.C.C overhead Water Tank, Guard Shed, Electrical Sub- Station, Deep tubewell, Custome Gate, Main Gate, compound wall, Etc.

**Chief Executive Officer**

Responsible for preparation of project Proposal, master Plan, Preliminary Design and Detailing, Structural Design of Project Overall Management and Executive Of Various Project.

**11. WORK UNDERTAKEN THAT BEST ILLUSTRATES CAPABILITY TO HANDLE THIS ASSIGNMENT:**

**Md. Abdul Alim** is a Masters in Civil Engineer with more than 11 years of total professional experience in the field of survey works of various civil engineering projects under various organizations especially with LGED in Bangladesh. Also he has more than 07 years of experience in large bridge designing under different projects of LGED. Some of which relevant experience pertinent to the proposed assignment in this project is as outlined below:

- **Survey Expert**, Study proposal for Environmental Impact Assessment and Economic Feasibility Study for Eight nos. of bridges under District: Pirojpur, Tangail, Manikganj, Shirajganj, Nowgaon, Netrakona and Study Proposal for one bridge under Rangpur District. Jan 2016 to Jun 2016 (6 months)
- **Survey Expert**, Study proposal for construction of 4 (Four) Bridges One Bridge over the river Korota under Pirganj Upazila, District: Rangpur and Two Bridges over the River Balu under Rupganj Upazila, District: Narayanganj and another one over the river Turag under Savar Upazila, District: Dhaka. (Jan 2016 to Jun 2016) Jan 2016 to Jun 2016 (6 months)
- **Survey Expert**, Study proposal for construction of 3 (Three) Bridges over the River Jhenai (Pungli) under Basail Upazila, District: Tangail. Jan 2016 to Jun 2016 (6 months)
- **Survey Expert**, Feasibility Study and Detailed Engineering Design, Cost Estimate and Tender Document Preparation for Hydrological and Morphological Study & Environmental Impact Assessment (EIA) Including Topographical Survey of 27 Nos Important Bridges in Some Selected Districts Project. Oct 2014 to Jun 2015 (9 months)
- **Survey Expert**, Feasibility Study in Terms of Hydrological and Morphological Study, Techno-Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 02 (Two) Large Bridges in B. Baria and Cox's Bazar Districts Project. Aug 2014 to Sep 2014 (02 months)
- **Survey Expert**, Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 02 (Two) Large Bridges in Kukigram District Project. May 2014 to July 2014 (03 months)
- **Survey Expert**, Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 02 (Two) Large Bridges in Pirojpur and Tangail Districts Project. Feb 2014 to Apr 2014 (03 months)
- **Survey Expert**, Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis and Environmental Impact Assessment Study (EIA) including Topographical Survey & Design of Important 06 (Six) Bridges in Rangpur Division Project. Dec 2013 to Jan 2014 (2 months)

- **Survey Expert**, Feasibility Study in Terms of Hydrological and Morphological Study, Economic Analysis, Environmental Impact Assessment Study, Preparation of Bidding Documents for Construction of 3 (Three) nos. Bridges over 3 (Three) different rivers Project. Feb 2012 to Jun 2012 (**05 months**)
- **Survey Expert**, Greater Rangpur and Dinajpur District Rural Communication and other Infrastructure Improvement Project (GRDP)  
Construction of Kailasganj – Shankardah – Kakina Road (Eastern Part of 850m Long Teesta Bridge Access Road)  
Aug 2011 to Sep 2011 (**02 months**)
- **Survey Expert**, Greater Rangpur and Dinajpur District Rural Communication and other Infrastructure Improvement Project (GRDP) Jan 2011 to July 2011 (**07 months**)
- **Survey Expert**, Development of Public Priority Upazila Road Project of Local Government and Engineering Department (LGED), Jan 2010 to Dec 2010 (**12 months**)

12. COMPUTER SKILLS : • Programming Language - Auto LISP, Visual Basic  
• Software - STAAD Pro, Auto CAD, MS Word, MS Excel

**CERTIFICATION:**

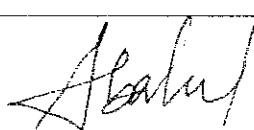
I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I also understand that any willful mis-statement described herein may lead to my disqualification or dismissal, if engaged.

I have been employed by **Soils and Foundations Limited** continuously for the last twelve (12) months as regular full time staff. Indicate "Yes" or "No" in the boxes below:

YES

NO

Signature



Date of Signing

10/06/2017

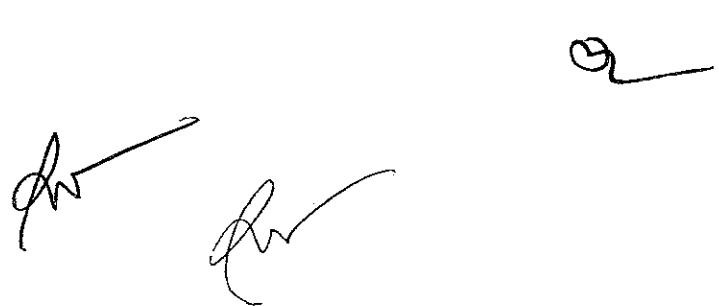
Day / Month / Year



**CV No. 10**

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**GIS Specialist-1**  
**Bibi Khadiza**

A handwritten signature in black ink, appearing to read "Bibi Khadiza". The signature is fluid and cursive, with a small loop at the end.

## FORM 5A8 : CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

Name of the Consultant	Engineering and Planning Consultants Ltd. (EPC)
RFP IDENTIFICATION NO.	CIB-S-60
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	: GIS Specialist-1
2. NAME OF PERSON	: Bibi Khadiza
3. DATE OF BIRTH	: March 15, 1979
4. NATIONALITY	: Bangladeshi
5. MEMBERSHIP IN PROFESSIONAL SOCIETIES	: - Member, Bangladesh Institute of Planners (BIP) [M ID: 489] - Former Treasurer, Executive Board (2013-2014), Khulna University Planners Alumni (KUPA) - Registered Planner, Rajdhani Unnayan Kartipakha (RAJUK).
6. EDUCATION	: - Masters of Urban and Regional Planning from Bangladesh University of Engineering and Technology, Dhaka, Bangladesh, in 2004. - Bachelor of Urban and Rural Planning from Khulna University, Khulna in 2001
7. OTHER TRAINING	: - 21 days training on "Critical Analysis of LGED's Effort towards Sustainable Rural and Urban Development" from October, 05 to November,05 by Local Government Engineering Department (LGED), Dhaka under Urban Governance Infrastructure Improvement Project, Urban Management Support Unit. - 2 months training on "Application of Geographic Information System (GIS) under Professional Skill Development Program" from May,12 to July,12 by Bangladesh Institute of Planners (BIP), Dhaka <b>Computer training/experience/knowledge</b> - Report Writing and Presentation: MS Word, MS Excel, MS Power Point, Acrobat (PDF) Writer & Reader. - Database Management and Statistical Analysis Tools : SPSS, MS Access, - GIS & Remote Sensing Application : ARC Info, Arc View, Arc GIS, Erdas Imagine, - Drawing & Graphics Design: Adobe Photoshop, Adobe Illustrator, Corel Draw, Auto CAD, MS Paint, MS Publisher. - Operating System: Windows XP, Windows 7, Basic Hardware & Troubleshooting and Internet Applications. <b>COMPUTER SKILLS</b> - MS Word, MS Excel, MS Power Point, Acrobat (PDF) Writer & Reader. - SPSS, MS Access, - ARC Info, Arc View, Arc GIS, Erdas Imagine, - Adobe Photoshop, Adobe Illustrator, Corel Draw, Auto CAD, MS Paint, MS Publisher - Windows XP, Windows 7, Basic Hardware & Troubleshooting and Internet Applications. <b>Publication</b> - Khadiza, Bibi, Islam, M.S. & Rubayet, R.K. "Land Suitability Analysis For Crop Agriculture And Shrimp Culture: Study On a Coastal Area Of Bangladesh" in the Book of "Negations and Negotiations: Polemics on the Rhetoric of Development", Volumes 1, New Delhi, DKPD, 2007. - Khadiza, Bibi. "Landuse Transformation and Land Suitability between Crop and Shrimp culture" VDM Publications, Germany, 2011.
8. LANGUAGE AND DEGREE	: <u>Language</u> <u>Speaking</u> <u>Reading</u> <u>Writing</u>

OF PROFICIENCY	English Bengali	Good Excellent	Good Excellent	Good Excellent
9. COUNTRIES OF WORK EXPERIENCE	:	Bangladesh		
10. EMPLOYMENT RECORD	:			
EMPLOYER: Design Development Consultants Limited, 47, Mohakhali C/A, Dhaka-1212.	From June 2015 to date <b>GIS Specialist, Preparation of Action Area Plan for Narayanganj City Corporation</b> <b>Responsibilities includes:</b>	- Supervision of Physical Feature Survey, Physical Infrastructure Survey, Landuse Survey and Topography Survey and preparation of maps based on the survey. - Coordination among updating field level survey data to digitize data and Super impose digitize survey data into Mauza map and create GIS Data Bank for further analysis. - Prepare methodology and questionnaire of Socio-economic survey, formal and informal economic survey, transportation Survey, housing and Slum survey. - Designing, coding, managing, analyzing and interpreting of survey data's and finally create a SPSS data bank for further analysis. - Meeting with different stakeholders to understand about their present needs and future wish. - Preparation of different types of report on the basis of public consultation, FGD and stakeholder Analysis and preparation of different types of maps based on land uses. - Preparation of different type of reports and maps with direct supervision of Team Leader.		
EMPLOYER: Engineering and Planning Consultants Limited (EPC), 7/4, Block-A, Lalmatia, Dhaka-1207.	From March 2012 To May, 2015 <b>GIS Specialist, Preparation of Development Plan for Rangpur City Corporation under District Towns Infrastructure Development Project (DTIDP), LGED.</b> <b>Responsibilities includes:</b>	- Supervision of Physical Feature Survey, Physical Infrastructure Survey, Landuse Survey and Topography Survey and preparation of maps based on the survey. - Coordination among updating field level survey data to digitize data and Super impose digitize survey data into Mauza map and create GIS Data Bank for further analysis. - Prepare methodology and questionnaire of Socio-economic survey, formal and informal economic survey, transportation Survey, housing and Slum survey. - Designing, coding, managing, analyzing and interpreting of survey data's and finally create a SPSS data bank for further analysis. - Meeting with different stakeholders to understand about their present needs and future wish. - Preparation of different types of report on the basis of public consultation, FGD and stakeholder Analysis and preparation of different types of GIS maps to show the technical aspects of the proposed plan. - Preparation of different type of reports and maps with direct supervision of Team Leader.		
	From October, 2011 To February, 2012 <b>GIS Specialist, Preparation of Structure Plan, Master plan and Detailed Area Plan for the extension of Khulna Master Plan area up to Mongla Town, KDA.</b> <b>Responsibilities includes:</b>	- Organize Public Hearing and National Seminar. - Preparation of GIS maps for different land uses and utility services - Present map on Public Hearing and Present Plan on National Seminar. - Prepare Final Plan Map and Survey Map Layout for Final Plan Submission - Assist Team Leader to prepare Final Reports for Structure Plan, Development Management Plan and Detailed Area Plan.		

**From August, 2006 To September, 2011**

**GIS Expert**, Preparation of Structure Plan, Master plan and Detailed Area Plan for the extension of Khulna Master Plan area up to Mongla Town, KDA.

**Responsibilities includes:**

- Supervision of Physical Feature Survey, Physical Infrastructure Survey, Landuse Survey and Topography Survey.
- Coordination among updating field level survey data to digitize data and Superimpose digitize survey data into Mauza map and create GIS Data Bank for further analysis.
- Prepare methodology and questionnaire of Socio-economic survey, Formal and informal economic survey, Transportation Survey, housing and Slum survey.
- Designing, coding, managing, analyzing and interpreting of survey data's and finally create a SPSS data bank for further analysis.
- Develop appropriate tools and techniques for paurashava and union level consultation.
- Meeting with different stakeholders to know about their present activity and their future plan.
- Preparation of different types of maps with the help of GIS and preparation of reports on the basis of public consultation, FGD and stakeholder Analysis.
- Preparation of different type of reports and maps with direct supervision of Team Leader.
- Assist Team Leader to prepare Structure Plan, Development Management Plan and Detailed Area Plan.

**From July, 2002 To July, 2006**

**GIS Expert**, Preparation of Structure Plan, Master plan and Detailed Area Plan for the extension of Khulna Master Plan area up to Mongla Town, KDA.

**Responsibilities includes:**

- Collection of Mauza Map
- Scanning, Geo-referencing, Digitization and Edit-plot Checking of Mauza Map
- Supervision of Bench Mark Installation for future survey
- Mosaic Mauza maps for preparation of Project area map and Layout.
- Develop appropriate data collection tools and methodology for Physical Feature Survey, Physical Infrastructure Survey, Landuse Survey and Topography Survey.
- Preparation of reports and maps under direct supervision of Team Leader

#### 11. WORK UNDERTAKEN THAT BEST ILLUSTRATES CAPABILITY TO HANDLE THIS ASSIGNMENT:

Outline of Experience and training most pertinent to the tasks on this assignment, with degree of responsibility held:

**Experience:**

- June 2015 to date: **GIS Specialist**, Preparation of Action Area Plan for Narayanganj City Corporation
- March 2012 To May, 2015: **GIS Specialist**, Preparation of Development Plan for Rangpur City Corporation under District Towns Infrastructure Development Project (DTIDP)
- October, 2011 To February, 2012: **GIS Specialist**, Preparation of Structure Plan, Master plan and Detailed Area Plan for the extension of Khulna Master Plan area up to Mongla Town
- August, 2008 To September, 2011; **GIS Expert**, Preparation of Structure Plan, Master plan and Detailed Area Plan for the extension of Khulna Master Plan area up to Mongla Town.
- July, 2007 To July, 2008: **GIS Expert**, Preparation of Structure Plan, Master plan and Detailed Area Plan for the extension of Khulna Master Plan area up to Mongla Town

**Training:**

- 21 days training on "Critical Analysis of LGED's Effort towards Sustainable Rural and Urban Development" from October, 05 to November,05 by Local Government Engineering Department (LGED), Dhaka under Urban Governance Infrastructure Improvement Project, Urban Management Support Unit.
- 2 months training on "Application of Geographic Information System (GIS) under Professional Skill Development Program" from May,12 to July,12 by Bangladesh Institute of Planners (BIP), Dhaka

**12. COMPUTER SKILLS**

- MS Word, MS Excel, MS Power Point, Acrobat (PDF) Writer & Reader.
- SPSS, MS Access,
- ARC Info, Arc View, Arc GIS, Erdas Imagine,
- Adobe Photoshop, Adobe Illustrator, Corel Draw, Auto CAD, MS Paint, MS Publisher
- Windows XP, Windows 7, Basic Hardware & Troubleshooting and Internet Applications.

**CERTIFICATION:**

I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I also understand that any willful mis-statement described herein may lead to my disqualification or dismissal, if engaged.

I have been employed by **Engineering & Planning Consultants Ltd. (EPC)** continuously for the last twelve (12) months as regular full time staff. Indicate "Yes" or "No" in the boxes below:

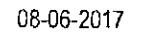
YES

NO

Signature



Date of Signing

  
08-06-2017  
Day / Month / Year

Bibi Khadiza
08-06-2017
Day / Month / Year

**CV No. 11**

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**GIS Specialist-2**

**Md. Mohirul Islam Mohir**





## FORM 5A8 : CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

Name of the Consultant	Soils and Foundations Limited
RFP IDENTIFICATION NO.	CIB-S-60
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	:	GIS Specialist-2												
2. NAME OF PERSON	:	Md. Mohirul Islam Mohir												
3. DATE OF BIRTH	:	15.10.1978												
4. NATIONALITY	:	Bangladeshi												
5. MEMBERSHIP IN PROFESSIONAL SOCIETIES	:	<ul style="list-style-type: none"> <li>- Life Member, Bangladesh Water Partnership (I-005)</li> <li>- Member, Bangladesh Institute of Planners (M-315)</li> <li>- Enlisted Urban Planner of RAJUK (RP.011.003)</li> </ul>												
6. EDUCATION	:	<ul style="list-style-type: none"> <li>- PhD in Water Resources Development, Theory Completed, Thesis going on under Institute of Water and Flood Management (IWFM), BUET, Dhaka.</li> <li>- M.Sc in Water Resources Development (WRD), Degree obtained in 2009 from Bangladesh University of Engineering and Technology (BUET), Dhaka.</li> <li>- Bachelor of Urban and Regional Planning (B.URP), Degree obtained in 2001 from Bangladesh University of Engineering and Technology (BUET), Dhaka.</li> </ul>												
7. OTHER TRAINING	:	<ul style="list-style-type: none"> <li>- Participation in Training on "GIS (Geographical Information System) on Transit Oriented Development (TOD)" held in Gazipur City Corporation, Gazipur during 23-24 October, 2016 jointly organized by Local Government Engineering Department (LGED), International Consultants &amp; Technocrats Pvt. Ltd., New Delhi, India and Development Design Consultants Ltd. Dhaka.</li> <li>- Participation in Training on "TOT (Training on Trainers) on Development Planning" held in National Institute of Local Government (NiLG), Dhaka during 02-03 September, 2015 jointly organized by Local Government Division (LGD) and Japan International Cooperation Agency (JICA).</li> <li>- Participation in Training on "Risk Resilient Infrastructures : Role of Education and Training" held in BUET, Dhaka during 13-14 November, 2010 organized by BUET-Japan Institute of Disaster Prevention &amp; Urban Safety (BUET-JIDPUS) and Comprehensive Disaster Management Program (CDMP), UNDP.</li> <li>- Participated in the Training and Demonstration on "Soil Remediation" Jointly organized by Khulna University of Engineering &amp; Technology (KUET), Cluster Association of Environmental Industry of the Basque Country (ACLIMA), Spain and Flemish Institute of Technological Research (VITO), Belgium and sponsored by the Asia Pro Eco-II Program of the European Commission from 11 to 15 November, 2007 at KUET, Khulna.</li> <li>- Participation in Training on "Town Planning and GIS" held in Planners Tower, Dhaka from 16 to 20 March, 2007 organized by Bangladesh Institutes of Planners (BIP) and Local Government Engineering Department (LGED).</li> <li>- Participation in Training on "TOT (Training on Trainers)" held in RDEC Bhaban of LGED, Dhaka during 24-26 October, 2005 organized by Local Government Engineering Department (LGED).</li> <li>- Participation in "4th Photography Workshop" held in BUET during 16-20 April, 2001 organized by BUET Photographic Society in collaboration with Bangladesh Photographic Institute.</li> </ul>												
8. LANGUAGE AND DEGREE OF PROFICIENCY	:	<table border="0"> <tr> <td>Language</td> <td>Speaking</td> <td>Reading</td> <td>Writing</td> </tr> <tr> <td>English</td> <td>Excellent</td> <td>Excellent</td> <td>Excellent</td> </tr> <tr> <td>Bengali</td> <td>Excellent</td> <td>Excellent</td> <td>Excellent</td> </tr> </table>	Language	Speaking	Reading	Writing	English	Excellent	Excellent	Excellent	Bengali	Excellent	Excellent	Excellent
Language	Speaking	Reading	Writing											
English	Excellent	Excellent	Excellent											
Bengali	Excellent	Excellent	Excellent											

9.	COUNTRIES OF WORK EXPERIENCE	: Bangladesh
10.	EMPLOYMENT RECORD	:
	EMPLOYER: Soils and Foundations Limited.	<p><b>From January 2016 To Date</b>  <b>GIS &amp; RS Specialist</b>, Hydrological, Morphological and EIA Study of proposed 120m Long PC Girder Bridge over Jalburunga River in Gouripur Upazila of Mymensingh District under Greater Mymensingh Rural Infrastructure Development Project of LGED.</p> <p><b>Responsibilities includes:</b></p> <ul style="list-style-type: none"> <li>- Processing satellite images;</li> <li>- Identification of bank-line shifting and plan form change using satellite Images;</li> <li>- GIS analysis for river bank locations;</li> <li>- Preparation of project location map, agro-ecological map, bio-ecological map, protected areas, seismic zone map, seven soil zone map; and</li> <li>- Preparation of different reports as required for the proposed study and other miscellaneous task as and when required.</li> </ul>
	EMPLOYER: Urban Development Directorate (UDD)	<p><b>From January 2015 To September 2016</b>  <b>GIS Specialist</b>; Preparation of Development Plan for Fourteen Upazilas Project.</p> <p><b>Responsibilities includes:</b></p> <ul style="list-style-type: none"> <li>- To prepare topographic, physical feature, land use and other related map of the area;</li> <li>- To prepare, supervise, manage and monitor digital database of the project;</li> <li>- Ensure the quality of the map and related work;</li> <li>- To work with a multi-disciplinary team environment to synchronize the multi-sectoral data into GIS database; and</li> <li>- Preparation of working paper, reports and plan of the project.</li> </ul>
	EMPLOYER: KS Consultants Limited	<p><b>From January 2014 To December 2014</b>  <b>GIS and Environmental Expert</b>; PPTA of Third Urban Governance and Infrastructure Improvement Project (UGIIP-III) of LGED.</p> <p><b>Responsibilities includes:</b></p> <ul style="list-style-type: none"> <li>- Work under direct supervision and guidance of the TL and DTL;</li> <li>- Analyze the data collected from the field and from the relevant consultants of the project as per directions/guidance from ESS;</li> <li>- Assist ESS in the preparation of the environmental reports (IEE, EIA) for the project under the guidance and supervision of ESS to his full satisfaction;</li> <li>- Assist ESS in his field works as per instruction.</li> <li>- Carry out Environmental Impact Assessment (EIA).</li> <li>- Preparation of Environmental Management Plan (EMP), if necessary.</li> <li>- Perform any other task assigned by the Team Leader, Deputy Team Leader and the Project Director.</li> </ul>
	EMPLOYER: Plan Plus Limited	<p><b>From March 2013 To December 2013</b>  <b>GIS &amp; Environmental Expert</b>; Environmental Impact Assessment (EIA) of 850.00m Long PSC Girder Bridge on Gangachara-Burihat-Mohipur-Shankardah-Keliashgonj-Kakina over the Teesta River at Gangachara Upazila of Rangpur District under Greater Rangpur and Dinajpur District Rural Communication &amp; other Infrastructure Improvement Project</p> <p><b>Responsibilities includes:</b></p> <ul style="list-style-type: none"> <li>- Work under direct supervision and guidance of the TL and DTL.</li> <li>- Attend meeting as and when required by the designated representative of LGED.</li> <li>- Analyze and interpret historical data as well as surveyed data of the river.</li> <li>- Establish baseline hydrological condition in the project area.</li> <li>- Analyze the results and identification of erosion vulnerable area.</li> <li>- Inventory of present environmental situation.</li> </ul>

- Carry out Environmental Impact Assessment (EIA).
- Preparation of Environmental Management Plan (EMP), if necessary.
- Preparation of different reports as required for the proposed study.
- Review monthly and quarterly reports, identify issues and problems/success and failure of on going works to PMO.
- Perform any other task assigned by the Team Leader, Deputy Team Leader and the Project Director.

**EMPLOYER:**  
LGED, Dhaka.

**From October 2012 To February 2013**

**GIS & Environmental Expert;** Feasibility Study in terms of Hydrological and Morphological Study, Economic Analysis, Environmental Impact Assessment Study, Preparation of Bidding Documents for Construction of a Bridge on Panchpir Bazar-Chilmari Upazila Head Quarter Road over the Teesta River Project, LGED Bhaban, Level-11, Agargaon, Dhaka-1207.

**Responsibilities includes:**

- Work under direct supervision and guidance of the TL and DTL.
- Attend meeting as and when required by the designated representative of LGED.
- Analyze and interpret historical data as well as surveyed data of the river.
- Establish baseline hydrological condition in the project area.
- Analyze the results and identification of erosion vulnerable area.
- Inventory of present environmental situation.
- Carry out Environmental Impact Assessment (EIA).
- Preparation of Environmental Management Plan (EMP), if necessary.
- Preparation of different reports as required for the proposed study.
- Review monthly and quarterly reports, identify issues and problems/success and failure of on going works to PMO.
- Perform any other task assigned by the Team Leader, Deputy Team Leader and the Project Director.

**From January 2012 To September 2012**

**GIS Specialist;** Emergency 2007 Cyclone Recovery and Restoration Project (ECRRP), Part-B, LGED, Dhaka-1207.

**Responsibilities includes:** Although a cyclone shelter construction project is not categorized in the guidelines of ECR and ECA; cyclone shelter construction may involve extensive building construction. On the other hand, construction, reconstruction and extension of feeder and local road in orange-B category but any major adverse impact from the construction of access road (rural road) to cyclone shelter is not expected in the project. Since, this is an emergency recovering project and the focus is on reconstruction and rehabilitation, only IEE has been carried out for the small-scale repairing/rehabilitation works having minor environmental impacts. However, construction of new cyclone shelters and feeder roads and major expansion of cyclone shelter has required both IEE and EIA as per DOE requirement.

**EMPLOYER:**  
Local Government  
Engineering Department  
(LGED)

**From May 2011 To December 2011**

**GIS Specialist;** TA for Extended Municipal Capacity Building Program and Preparation of MSP-II.

**Responsibilities includes:** Provide all sorts of support to the implementation of the Project/Program at any level of the program implementation. Assist in the evaluation of paurashava performance, identify institutional weakness, and prepare plans for improvements. Assist to review the existing system, procedure, rules and regulations, laws and byelaws etc. in connection with current planning procedures and practices at the paurashava levels and identify limitations. Provide assistance in identification of issues in urban planning and management with respect to land use, environment, infrastructure and services in the participating paurashavas. Organize formal class room training on surveying, field survey, on-the-job, basic computer training and GIS training for the engineering section staff of paurashavas through involvement of concerned Assistant Director so that s/he may make himself /herself fit for taking consultant's responsibility. Develop a Paurashava Base Map and Database of Physical Infrastructure in digital mode through active involvement of engineering

section staff of the paurashava taking assistance from UPMS of MSU. Collect UDD maps and CS mauza maps of the paurashavas, if available, for comparison between the Base Map and UDD maps/CS mauza maps. Facilitate and coordinate design and implementation of urban planning and management components of capacity building programs for RMSU and paurashavas. Provide necessary information and support to Central Urban Planning and Management Specialist in completion and updating the national municipal database of MSU. Provide advice to the Monitoring Unit of MSU in the design of information management systems in key areas of paurashava management including paurashava assets, infrastructure and service provision profiles, accessibility to services, etc. Coordinate with urban planning personnel at the paurashava levels to ensure consistency of capacity building programs. Assist in developing planning guidelines to involve local communities and private sector in development of infrastructure and services at paurashava level. Tour extensively to supervise and monitor the progress of the program components /activities. Praduce Quarterly/Semi-Annual/Annual/Special Report and to submit Contract Completion Report, and Perform any other assignment which MSU authority will assign to him from time to time.

**EMPLOYER:**  
Local Government  
Engineering Department  
(LGED)

**From July 2010 To April 2011**

**GIS & Drainage Expert;** Preparation of Drainage Master Plan under Second Urban Governance and Infrastructure Improvement Project (UGIIP-II) of LGED.

**Responsibilities includes:** Collection of relevant data, maps and drawings for preparing IDF curves and their use. Determination of study / survey areas based on potential urban expansion and other local factors / conditions for the next 20 years. Collect / prepare map with delineation of the study area and identify / locate natural and manmade drains, rivers and other bodies. Collect, review and update any drainage master plan from STIDP-II and UGIIP-I or any other project. Assess the extent and frequency of flooding and poor drainage in the current system. Conduct surveys necessary to prepare contour lines and base maps on GIS platform. Prepare drainage / catchment basins with storm water flows. Review existing drainage with drainage basins to identify and prioritize system deficiencies. Surveying and capturing geographic / physical features within the pourashava boundary by GPS and preparing contour and land use maps and preparing a conceptual report on the various alternative solutions to the drainage problems and selecting the most appropriate and economical alternative. Conduct technical analysis of alternative schemes for drainage. Prepare a master plan of the storm water drainage system for the entire area of each town showing primary, secondary and tertiary drains based on the catchments areas. Study the existing drainage maintenance procedures, if any, and suggest a planned maintenance system to ensure that the drains are kept free from blockages and physical damage. Recommend planning, institutional, and legal mechanisms to ensure provision of adequate land for rights of way for storm water drainage. Digitization of maps using GIS software. Find drainage requirement of projected population of 2030, considering future growth of the town. Identify present bottom necks and constrains of drainage system. Identify immediate needs and prepare and investment plan for 2011-2015 in light of master plan.

**From January 2005 To June 2010**

**GIS Expert;** First Urban Governance and Infrastructure Improvement Project (UGIIP-I) of LGED.

**Responsibilities includes:** Assist Paurashava to establish a Town Planning Unit (TPU) supported by adequate staff and monitoring its functioning. Assist Paurashava in co-operation with UMSU in tasks related to implementation of infrastructure inventory assessment and mapping. Assist Town Planning Unit in collaboration with UMSU in preparation of Municipal Infrastructure Development Plan (MIDP) with an updated landuse plan. Assist PIU in implementation the process of consultation on and finalization of the Municipal Infrastructure Development Plan as detailed in UGIAP implementation plan. Assist in and monitor implementation of the Municipal Infrastructure Development Plan. Assist Project Implementation Unit (PIU) to update the Infrastructure Inventory, Base Map and Landuse Map with the assistance of GIS

Framework as detailed in Municipal Infrastructure Development Plan (MIDP). Assist TPU to update MIDP and Landuse Plan as prepared in Phase-I and II. Assist PIU to implement MIDP and Landuse Plan. Assist PIU to monitor Town Planning Activities as per the systems developed by PMO and prepare report on the progress. Prepare a Draft Manual on Preparation of Municipal Infrastructure Development Plan (MIDP) with an updated Landuse Plan for the Project Paurashavas.

**EMPLOYER:**  
Centre for Environmental  
and Geographic Information  
Services (CEGIS)

**From July 2002 To December 2004**

**GIS & RS Expert;** Analytical Framework for the Planning Integrated Water Resources Management (IWRM) in Bangladesh.

**Responsibilities includes:** Collect and develop a database of all cyclone shelter at Coastal Zone Area of Bangladesh under the project of **Cyclone Shelter Management Information System (CYSMIS)**. Prepared Map on the basis of GPS reading to show the location of cyclone shelter. Prepared report on the basis of vulnerability, environmental and socio-economic condition, livelihood of the coastal people. Find out the impact and importance of Multi Purpose Cyclone shelter with Participatory Monitoring Method of PRA. Organize 84 Programs of National Water Management Plan (NWMP) under the project of **Analytical Framework for the Planning of Integrated Water Resources Management (IWRM) in Bangladesh**. Prepared result for Program Output Indicators such as land resources, water resources and human resources by working with Economist and Engineers of Water Resources Planning Organization (WARPO) and CEGIS. In-depth literature review of Draft Development Studies (DDS), Flood Action Plan (FAP) and Options for Ganges Dependent Area (OGDA).

#### 11. WORK UNDERTAKEN THAT BEST ILLUSTRATES CAPABILITY TO HANDLE THIS ASSIGNMENT:

Outline of Experience and training most pertinent to the tasks on this assignment, with degree of responsibility held:

##### Experience:

- **January 2016 To Date:** **GIS & RS Specialist**, Hydrological, Morphological and EIA Study of proposed 120m Long PC Girder Bridge over Jalburunga River in Gouripur Upazila of Mymensingh District under Greater Mymensingh Rural Infrastructure Development Project of LGED.
- **January 2015 To December 2016:** **GIS Specialist**; Preparation of Development Plan for Fourteen Upazilas Project.
- **January 2014 To December 2014:** **GIS and Environmental Expert**; PPTA of Third Urban Governance and Infrastructure Improvement Project (UGIIP-III) of LGED.
- **March 2013 To December 2013:** **GIS & Environmental Expert**; Environmental Impact Assessment (EIA) of 850.00m Long PSC Girder Bridge on Gangachara-Bunhat-Mohipur-Shankardah-Kelishgonj-Kakina over the Teesta River at Gangachara Upazila of Rangpur District under Greater Rangpur and Dinajpur District Rural Communication & other Infrastructure Improvement Project
- **October 2012 To February 2013:** **GIS & Environmental Expert**; Feasibility Study in terms of Hydrological and Morphological Study, Economic Analysis, Environmental Impact Assessment Study. Preparation of Bidding Documents for Construction of a Bridge on Panchpir Bazar-Chilmari Upazila Head Quarter Road over the Teesta River Project, LGED Bhaban, Level -11, Agargaon, Dhaka-1207.
- **January 2012 To September 2012:** **GIS Specialist**; Emergency 2007 Cyclone Recovery and Restoration Project (ECRRP), Part-B, LGED, Dhaka-1207.
- **May 2011 To December 2011:** **GIS Specialist**; TA for Extended Municipal Capacity Building Program and Preparation of MSP-II.
- **July 2010 To April 2011:** **GIS & Drainage Expert**; Preparation of Drainage Master Plan under Second Urban Governance and Infrastructure Improvement Project (UGIIP-II) of LGED.
- **January 2005 To June 2010:** **GIS Expert**; First Urban Governance and Infrastructure Improvement Project (UGIIP-I) of LGED.
- **July 2002 To December 2004:** **GIS & RS Expert**; Analytical Framework for the Planning Integrated Water Resources Management (IWRM) in Bangladesh.

##### Training:

- Participation in Training on "GIS (Geographical Information System) on Transit Oriented Development (TOD)" held in Gazipur City Corporation, Gazipur during 23-24 October, 2016 jointly organized by Local Government Engineering Department (LGED), International Consultants & Technocrats Pvt. Ltd., New Delhi, India and Development Design Consultants Ltd. Dhaka.

- Participation in Training on "TOT (Training on Trainers) on Development Planning" held in National Institute of Local Government (NILG), Dhaka during 02-03 September, 2015 jointly organized by Local Government Division (LGD) and Japan International Cooperation Agency (JICA).
- Participation in Training on "Risk Resilient Infrastructures : Role of Education and Training" held in BUET, Dhaka during 13-14 November, 2010 organized by BUET-Japan Institute of Disaster Prevention & Urban Safety (BUET-JIDPUS) and Comprehensive Disaster Management Program (CDMP), UNDP.
- Participated in the Training and Demonstration on "Soil Remediation" Jointly organized by Khulna University of Engineering & Technology (KUET), Cluster Association of Environmental Industry of the Basque Country (ACLIMA), Spain and Flemish Institute of Technological Research (VITO), Belgium and sponsored by the Asia Pro Eco-II Program of the European Commission from 11 to 15 November, 2007 at KUET, Khulna.
- Participation in Training on "Town Planning and GIS" held in Planners Tower, Dhaka from 16 to 20 March, 2007 organized by Bangladesh Institutes of Planners (BIP) and Local Government Engineering Department (LGED).
- Participation in Training on "TOT (Training on Trainers)" held in RDEC Bhaban of LGED, Dhaka during 24-26 October, 2005 organized by Local Government Engineering Department (LGED).
- Participation in "4th Photography Workshop" held in BUET during 16-20 April, 2001 organized by BUET Photographic Society in collaboration with Bangladesh Photographic Institute.

**12. COMPUTER SKILLS**

- CAD Software: Autodesk AutoCAD, Autodesk AutoCAD Map, AutoDesk Land desktop, AutoDesk Survey and Civil 3D, Inroads Survey, TDS Office, Micro station, Micro Survey CAD
- GIS & Remote Sensing Software: ARC/INFO, ArcView, ArcGIS 10.3, ENVI , ArcGIS Server , SQL Server, Erdas Imagine 9.0.
- GPS Software: Topcon Tools, Spectrum Survey, SKI Pro, Prism, Ashtech solution.
- Graphic Design Software: Adobe Photoshop, Adobe Illustrator, Google Sketch up , WaterCad V8i.
- Photogrammetry Software: Summit Evaluation.
- Office Software & Database: Microsoft Word, Microsoft excel, Microsoft Project, Microsoft Power point, MS Access, SPSS 12.0

**CERTIFICATION:**

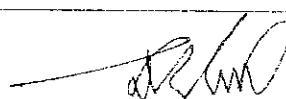
I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I also understand that any willful mis-statement described herein may lead to my disqualification or dismissal, if engaged.

I have been employed by **Soils and Foundations Limited** continuously for the last twelve (12) months as regular full time staff. Indicate "Yes" or "No" in the boxes below:

YES

NO

Signature



Date of Signing

08/06/2017

Day / Month / Year