

**Contract Agreement
Hydrological and Morphological Study
Package- CIB-S-58**

EPC-S&F JV

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Contract Agreement

This Contract for Consultancy Service in order to carry out Hydrological and Morphological Study of 14 Bridges over Different River at Kishoreganj, Mymensingh, Jamalpur, Rajbari, Kushtia, Narayanganj, Tangail and Gazipur Districts (Package No:CIB.S-58, Scheme list is attached with the negotiated TOR) under the Project (herein after called “**the Contract**”) is entered into this day, the **21th 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.

“দেশপ্রেমের শপথ ছিল, দুর্নীতিকে বিদায় দিল”

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.

“দেশের শপথ নিন, মুক্তির কে বিদায় দিন”

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):

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

(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):

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

(Muhammad Moinul Husain)
Team Leader
(Package:CIB-S-60)

“দেশপ্রেমের শপথ নিল, মুর্মুতিকে বিদায় দিল”

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Main Criteria and Points	Description of Marking Criteria	Points	Joint Venture of Engineering & Planning and Consultants Ltd. And Soils and Foundations Ltd.				
			Description	Points	Rating		
Personnel (60)				Personnel Name			
a) Team Leader cum Hydrological Specialist (20)	(a) Team Leader cum Hydrological Specialist (20): General Qualifications (weight 25% of 20)= 5.0						
i	General qualification:B.Sc in Civil/Water Resource Engineering from any recognized university (80%), M.Sc in Civil/Water Resource Engineering from any recognized university (90%). PhD (100%).	3.00	Md. Aminul Islam	B.Sc.(Civil)	2.40	80.00%	
ii	General Experience (10% of 20.00)=2.00 =20 years (80%) Each year ± 5%	2.00		37.00	2.00	100.00%	
Adequacy for the assignment (weight 60% of 20) = 12.00							
i	Experience in Similar work (20% of 2.00) = 4.00 =15 years (80%) Each year ± 5%	4.00		24	4.00	100.00%	
ii	Overall adequacy of the professional for this assignment considering year of experience in hydrology, river hydraulics and morphological study. (30 % of 20) : Excellent (90%-100%), Very Good (80%-89%); Good (70%-79%), Poor (<50%).	6.00		Very Good	5.10	85.00%	
iii	Experience as a Team Leader (10%) Excellent (90%-100%), Very Good (80%-89%), Good (70%-79%), poor (<50%).	2.00		1 yr (Good)	1.50	75.00%	
Time with Firm (weight 15% 20) =3.00							
	Year (Less than 1=50%, 1~ less than 3=80%, 3~ 5=90%, More than 5 years=100%)	3.00		1 year	2.40	80.00%	
Sub Total (Team Leader)-20.00			20.00			17.40	

H K Q S A D Q

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
 স্থানীয় সরকার প্রকৌশল অধিদপ্তর
 “পল্টী সড়কে গুরত্বপূর্ণ সেতু নির্মাণ” শীর্ষক প্রকল্প
 আগারগাঁও, শেরেবাংলা নগর
 ঢাকা-১২০৭।
www.lged.gov.bd

উন্নয়নের গণতন্ত্র
 শেখ হাসিনার মূলমন্ত্র

স্মারকনং-এলজিইডি/পিডি(CIB)/S-০৩/২০১৭/৫৮৯

তারিখঃ ২৭/০৯/১৭

প্রতি

Md. Abdul Wadud Bhuiyan
 Director, Engineering & Planning Consultants Ltd.
 Authorized Signatory.
 Joint Venture of Engineering & Planning Consultants Ltd.
 and Soils and Foundations Ltd.
 ৭/৪, Block-A, Lalmatia, Dhaka-1207.

বিষয়ঃ Notification of Award (NOA) ইস্যুকরণ প্রসঙ্গে।

Received
 Md. Asieur Rahman
 ১৯.০৯.২০১৭

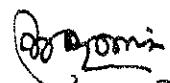
Md. Asieur Rahman
 Junior Design Engineer
 Soils and Foundations Limited
 ০১৮৪০-৩১৭১৪১

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

উপর্যুক্ত বিষয় এবং সূত্রের প্রেক্ষিতে জাননো যাচ্ছে যে, এলজিইডি-র আওতায় বাস্তবায়নাদীন “পল্টী সড়কে গুরত্বপূর্ণ সেতু নির্মাণ” শীর্ষক প্রকল্পের অধীন Package:CIB.S-60 এর ১৪টি ব্রীজের Hydrological & Morphological Study এর কাজ সম্পন্নকরণের জন্য কারিগরী পরামর্শক হিসেবে নিয়োগের জন্য আপনার প্রতিষ্ঠান কর্তৃক ১৫-০৬-২০১৭ তারিখে দাখিলকৃত কারিগরী ও আর্থিক প্রস্তাব “প্রস্তাব মূল্যায়ন কমিটি” কর্তৃক মূল্যায়নে সর্বোচ্চ নম্বর পেয়ে উত্তীর্ণ হয়েছে।

তৎপ্রেক্ষিতে ৩০/০৮/২০১৭ তারিখে আপনার প্রতিষ্ঠানের সাথে Contract Negotiation সংক্রান্ত বিষয় অনুষ্ঠিত “প্রস্তাব মূল্যায়ন কমিটি”র সভায় সুপারিশকৃত অর্থ ভ্যাট ও আইটিসহ মোট ১,৭৮,২৫,০০০.০০ (এক কোটি অট্টাশ লাখ পঁচিশ হাজার) টাকা নির্ধারণ করে Package:CIB.S-60 এর ১৪টি ব্রীজের Hydrological & Morphological Study এর কাজ সহ অন্যান্য কাজ সম্পাদনের জন্য আপনার প্রতিষ্ঠানকে নিয়োগের প্রস্তাব 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।


 (মোঃ আল্লা হাফিজ)
 ১মা.১১৭

থকল পরিচালক

ফোন: ০২-৯১২৬৪২৬

ই-মেইল: pd.cibrr@lged.gov.bd

অনুলিপি:

- 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 Kishoreganj,
Mymensingh, Jamalpur, Sunamganj, Sylhet, Narayanganj,
Tangail, and Gazipur Districts (Package No. CIB-S-58).**

FINANCIAL PROPOSAL

Submitted by:
A Joint Venture of:

EPC **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, Website: www.epc-consultants.org

and

S&F

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

June 2017

FORM 5B1
FINANCIAL PROPOSAL SUBMISSION FORM

Dhaka, June 14, 2017

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.

Dear Sirs:

We, the undersigned, offer to provide the consulting services for *Hydrological and Morphological Study of 14 Bridges over Different River at Kishoreganj, Mymensingh, Jamalpur, Sunamganj, Sylhet, Narayanganj, Tangail, and Gazipur Districts (Package No. CIB-S-58)* 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

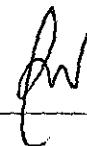
Consultancy Services for Hydrological and Morphological Study of 14 Bridges over Different River at Kishoreganj, Mymensingh, Jamalpur, Sunamganj, Sylhet, Narayanganj, Tangail, and Gazipur Districts (Package No. CIB-S-58).

Form 5B2 Summary of Costs

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


14/6/2017

Md. Abdur Rob
Director
Engineering & Planning Consultants Ltd.
74, Banekia, Dhaka-1207.



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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	Jalaluddin Md. Abdul Hye	Team Leader cum Hydrological Design Specialist	250,000	5	1,250,000.00
2	A.H.M Kausher	Senior Hydrologist	200,000	5	1,000,000.00
3	Abdur Rahman Bhuiyan	Modeling Engineer-1	200,000	5	1,000,000.00
4	Muhammad Motiur Rahman	Modeling Engineer-2	200,000	5	1,000,000.00
5	Ekramul Hoque Sarder	Morphologist	200,000	4	800,000.00
6	Md. Didarul Alam	Hydraulic Engineering Specialist	200,000	4	800,000.00
7	Md. Mobassarul Hasan	Hydraulic Modeller	200,000	4	800,000.00
8	Dr.Khondokar Abu Zafor	Structural Engineer-1	200,000	4	800,000.00
9	Md. Zakaria Pathan	Structural Engineer-2	200,000	4	800,000.00
10	Mohammad ShafiuL Hasan	GIS Specialist-1	150,000	3	450,000.00
11	Neamul Ahsan Khan	GIS Specialist-2	150,000	3	450,000.00
TOTAL:				46	9,150,000.00

[Handwritten Signature]
 MO. ABUL WAFIU BHUIYAN
 Director
 Engineering & Feasibility Consultants Ltd
 13, Dhaka-1205, Bangladesh

[Handwritten Date]
 14/06/2017

FINANCIAL PROPOSAL
 Consultancy Services for Hydrological and Morphological Study of 14 Bridges over Different River at Kishoreganj,
 Mymensingh, Jamalpur, Sunamganj, Sylhet, Narayanganj, Tangail, and Gazipur Districts (Package No. CIB-S-58).

FINANCIAL PROPOSAL

Consultancy Services for Hydrological and Morphological Study of 14 Bridges over Different River at Kishoreganj, Mymensingh, Jamalpur, Sunamganj, Sylhet, Narayanganj, Tangail, and Gazipur Districts (Package No. CIB-S-58).

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	140,000.00
2	Travel Expense:				
i.	Filed Visit by land transport	Trip	10,000	14	140,000.00
ii.	Other Transportation Costs (Car/Microbus rental with O&M)	Month	100,000	5	500,000.00
3	Communication Cost	Month	5,000	5	25,000.00
4	Rental of Office Equipment:				
	Use of Software, Computer with Accessories, printer, photocopier, scanner.	Month	30,000	5	150,000.00
5	Rental of Office Space & Utilities:				
i.	Office Rent (Dhaka)	Month	20,000	5	100,000.00
ii.	Office Utilities -Dhaka	Month	15,000	5	75,000.00
6	Topo, Bathematic Survey & Sub-Soil Investigation of Large Bridges (200m & above)	each	60,000	6	360,000.00
7	Topo, Bathematic Survey & Sub-Soil Investigation of Small & Medium Bridges (up-to 200m)	each	50,000	8	400,000.00
8	Laboratory Tests and other Technical Services for fourteen Bridges	each	10,000	14	140,000.00
9	Hydraulic/ Hydromorphological Modeling	each	75,000	14	1,050,000.00
10	Office Supplies	month	10,000	5	50,000.00
11	Use of Computer Software	month	20,000	5	100,000.00
12	Stationeries and Computer consumables	month	20,000	5	100,000.00
13	Drafting, reproduction of reports:				
i.	Inception report	Copy	5,000	3	15,000.00
ii.	Draft Final Report (Hydro-Morphological)	Copy	35,000	5	175,000.00
iii.	Final Report	Copy	50,000	3	150,000.00
14	Administrative Support Staff:				
i.	Office Manager/ Accountant	month	30,000	5	150,000.00
ii.	Computer Operator	month	30,000	5	150,000.00
iii.	Junior Engineer- 2 person	month	30,000	8	240,000.00
iv.	CAD-Specialist	month	45,000	4	180,000.00
v.	Photocopy Machine operator/ Messenger	month	20,000	5	100,000.00
TOTAL:					4,490,000.00

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

FORM 5A5 :
Work Schedule

**Consultancy Services for Hydrological and Morphological Study of 14 Bridges over Different River at Kishoreganj,
Mymensingh, Jamalpur, Sunamganj; Sylhet, Narayanganj, Tangail, and Gazipur Districts (Package No. CIB-S-58)**

Activities		Period in Months				
		1	2	3	4	5
Item Nr.	Task Description					
ACTIVITY 100	MOBILIZATION AND START-UP ACTIVITIES					
Task 101	Negotiations and Signing of Contract					
Task 102	Mobilization and Office Establishment					
Task 103	Start-Up Meetings with the Client (LGED)					
ACTIVITY 200	ENGINEERING SURVEYS AND INVESTIGATIONS					
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					
ACTIVITY 300	REPORTS AND DELIVERABLES					
Task 301	Inception Report					
Task 302	Draft Final Report					
Task 303	Final Report					

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FORM 5A6

TEAM COMPOSITION AND TASK ASSIGNMENTS

Sl. No.	Name of Staff	Firm/ Organization	Area of Expertise	Position Assigned	Task Assigned
1.	Jalaluddin Abdul Hye	Md. 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"> • 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; • Analyze and interpret the study results for proper designing of bridges; • Contribute in preparing reports and submitting to the LGED authority
2.	A.H.M Kausher	EPC	Expertise and wide experience and knowledge in hydrology and related activities.	Sr. Hydrologist	<ul style="list-style-type: none"> • 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;
3.	Abdur Rahman Bhuiyan	EPC	Wide experience in hydro-dynamic/ modeling with data calibration, validation.	Modeling Engineer-1	<ul style="list-style-type: none"> • Preparation of different reports as required for the proposed study; • Attend Interaction meeting with LGED
4.	Muhammad Motiur Rahman	SPMC	Wide experience in hydro-dynamic/ modeling with data calibration, validation.	Modeling Engineer-2	

TECHNICAL PROPOSAL

Consultancy Services for Hydrological and Morphological Study of 14 Bridges over Different River at Kishoreganj, Mymensingh, Jamalpur, Sunamganj, Sylhet, Narayanganj, Tangail, and Gazipur Districts (Package No. CIB-S-58)

Form 5A6:

Team Composition and Task Assignments

Sl. No.	Name of Staff	Firm/ Organization	Area of Expertise	Position Assigned	Task Assigned
5.	Ekramul Hoque Sarder	SPMC	Expertise and wide experience and knowledge in morphology, hydraulics or hydro-dynamic modeling, morphology activities.	Morphologist	<ul style="list-style-type: none"> • 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; • Carry out mathematical modeling; • Attend meeting as and when required by the designated representative of LGED.
6.	Md. Dinarul Alam	EPC	Expertise and wide experience and knowledge in morphology, hydraulics or hydro-dynamic modeling, morphology activities.	Hydraulic Engineering Specialist	
7.	Md. Mobassarul Hasan	SPMC	Expertise and wide experience and knowledge in morphology, hydraulics or hydro-dynamic modeling, morphology activities.	Hydraulic Modeler	
8.	Dr. Khondokar Abu Zafor	S&F	Design of hydraulic structure and river protective works.	Structural Engineer-1	<ul style="list-style-type: none"> • Determination of design parameters for the bridges and the river training works.

TECHNICAL PROPOSAL

Consultancy Services for Hydrological and Morphological Study of 14 Bridges over Different River at Kishoreganj, Mymensingh, Jamalpur, Sunamganj, Sylhet, Narayanganj, Tangail, and Gazipur Districts (Package No. CIB-S-58)

Form 5A6:
Team Composition and Task Assignments

Sl. No.	Name of Staff	Firm/ Organization	Area of Expertise	Position Assigned	Task Assigned
9.	Md. Zakaria Pathan	S&F	Design of hydraulic structure and river protective works.	Structural Engineer-2	<ul style="list-style-type: none"> Preparation of hydraulic design of the bridges including length of bridge height of bridge and scour levels at bridge piers and abutments. Preparation of 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; Preparation of 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, slope 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.
10.	Mohammad Shafiu1 Hasan	S&F	Widely experienced and expertise in RS/GIS, especially in climate change related works.	GIS Specialist-1	<ul style="list-style-type: none"> 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.
11.	Neamul Ahsan Khan	SPMC	Widely experienced and expertise in RS/GIS, especially in climate change related works.	GIS Specialist-2	

Form 5A7
Staffing Schedule

A handwritten signature consisting of stylized initials, possibly "JW".

FORM 5A7
STAFFING SCHEDULE

Consultancy Services for Hydrological and Morphological Study of 14 Bridges over Different River at Kishoreganj, Mymensingh, Jamalpur, Sunamganj, Sylhet, Narayanganj, Tangail, and Gazipur Districts (Package No. CIB-S-58)

Sl. No.	Name of Staff	Position Assigned	MONTHS					Input (Man-month)		
			1	2	3	4	5	Home	Field	Total
1	Jalaluddin Md. Abdul Hye	Team Leader cum Hydrological Design Specialist	Home					0	5.00	5.00
2	A.H.M Kausher	Sr. Hydrologist	Home					0	5.00	5.00
3	Abdur Rahman Bhuiyan	Modeling Engineer-1	Home					0	5.00	5.00
4	Muhammad Motiur Rahman	Modeling Engineer -2	Home					0	5.00	5.00
5	Ekramul Hoque Sarder	Morphologist	Home					0	4.00	4.00
6	Md. Didarul Alam	Hydraulic Engineering Specialist	Home					0	4.00	4.00
7	Md. Mobassarul Hasan	Hydraulic Modeler	Home					0	4.00	4.00
8	Dr.Khondokar Abu Zafor	Structural Engineer-1	Home					0	4.00	4.00
9	Md. Zakaria Pathan	Structural Engineer-2	Home					0	4.00	4.00
10	Mohammad Shafiqul Hasan	GIS Specialist-1	Home					0	3.00	3.00
11	Neamul Ahsan Khan	GIS Specialist-2	Home					0	3.00	3.00
			Total:	0	46.00	46.00				

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

2

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FORM 5A8

CURRICULUM VITAE (CV) FOR PROPOSED PROFESSIONAL STAFF

8.1 List of Proposed Professional Staff

CV No.	Name of Staff	Firm/ Organization	Position Assigned
1.	Jalaluddin Md. Abdul Hye	EPC	Team Leader cum Hydrological Design Specialist
2.	A.H.M Kausher	EPC	Sr. Hydrologist
3.	Abdur Rahman Bhuiyan	EPC	Modeling Engineer-1
4.	Muhammad Motiur Rahman	SPMC	Modeling Engineer-2
5.	Ekramul Hoque Sarder	SPMC	Morphologist
6.	Md. Didarul Alam	EPC	Hydraulic Engineering Specialist
7.	Md. Mobassarul Hasan	SPMC	Hydraulic Modeler
8.	Dr. Khondokar Abu Zafor	S&F	Structural Engineer-1
9.	Md. Zakaria Pathan	S&F	Structural Engineer-2
10.	Mohammad Shafiul Hasan	S&F	GIS Specialist-1
11.	Neamul Ahsan Khan	SPMC	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.

Dhaka, 30 August, 2017

To

The Project Director

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

Sub: Request for replacement of Team Leader for package No: CIB-S-58

Ref: Contract Negotiation meeting held on 30/08/2017

Dear Sir,

I would like to draw your kind attention on the subject and inform that in view of the contract negotiation meeting held on the subject on 30/08/2017 we are proposing the replacement of the Team Leader as follows,

1. Jalaluddin Md. Abdul Hye to be replaced by Md. Aminul Islam.

The CV of the proposed Team Leader for CIB-S-58, Mr. Md. Aminul Islam is also attached for your kind convenience.

Best Regards,

On behalf of EPC & S&F



(Md. Abdul Wadud Bhuiyan)

Director, EPC



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

Name of the Consultant	Engineering and Planning Consultants Ltd. (EPC)
RFP IDENTIFICATION NO.	CIB-S-58
Name of the Client	Local Government Engineering Department (LGED)

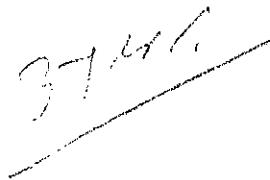
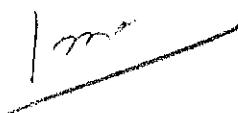
1. PROPOSED POSITION :	Team Leader cum Hydrological Design Specialist FOR THIS PROJECT
2. NAME OF PERSON :	Md. Aminul Islam
3. DATE OF BIRTH :	April 16, 1956
4. NATIONALITY :	Bangladeshi
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES :	<ul style="list-style-type: none"> • Fellow, Institution of Engineers Bangladesh (IEB), F-2870
6. EDUCATION :	<ul style="list-style-type: none"> • Bangladesh University of Engineering and Technology (BUET), Dhaka, B.Sc. Engineering Civil, 1980
7. OTHER TRAINING :	<p>Abroad:</p> <ul style="list-style-type: none"> • Experience sharing training on major water resources Interventions in Mississippi/Missouri river valley and their impacts; 2 weeks, USA, 2014. • Experience sharing training on Economic Viability of Large FCDI projects, 2 weeks, Australia, 2014. • Experience sharing training on IO&M, M&E of FCDI projects, 1 week, Sri Lanka, 2014. Experience sharing training on Irrigation Management and Water Resources Planning, 1 week, Egypt, 2014. • Training on Procurement Management in Public Sector, 3 weeks, ITC-ILO, Italy, 2013. • Experience sharing training on Competency-based Human Resources Management, 1 week, China, 2013. • Experience sharing training on Management of Large Irrigation Project; 2 weeks, Philippines and Indonesia, 2013. • Experience sharing training on FCDI projects with emphasis on disaster management, 2 weeks, Thailand and Vietnam, 2013. • Training on Institutional Development and Adoption of Change Management, 2 weeks, ISS, The Netherlands, 2012. • Training on Financial management, 4 days, The World Bank, Chennai, India, 2011. • Workshop on Space Application to RWRDR In Asia, 3 days, Thailand, 2010.



Local

- GIS Applications in Water Resource Management at CEGIS, Dhaka, 2006.
- Financial Management (Accounts and Audit) at BWDB training Institute, Bhagyakul, 2006
- PPR and Delegation of Financial Power at BWDB training Institute Bhagyakul, 2006
- Office Management at Genetic Computer School of Singapore, Chittagong, 1998 Project Management and Planning, Centre of Management Development, Dhaka, 1996 Development Oriented BWDB-FFW Schemes under UNDP Program, Dhaka, 1988
- Small Scale Water Control Structures under CIDA, Dhaka, 1987
- Micro Computer Applications In Hydrologic Data Analysis In IFCDR-BUET, Dhaka, 1986 Small Scale Water Control Structures under NHCL, BRRI, Joydevpur, 1983 Reorientation Course, Engineering Academy, BWDB, Kaptal, 1982
- European and Third World Films conducted by Bangladesh Federation of Film Societies; and Film Appreciation Course by Film Institution and Archive, Dhaka, Bangladesh.

8. LANGUAGE AND DEGREE OF PROFICIENCY	:	<u>Language</u>	<u>Speaking</u>	<u>Reading</u>	<u>Writing</u>
		Bengali	Excellent	Excellent	Excellent
		English	Excellent	Excellent	Excellent
9. COUNTRIES OF WORK EXPERIENCE	:	Bangladesh			
10. EMPLOYMENT RECORD EMPLOYER	:	<p>From June 2016 To Date</p> <p>Sr. Construction Monitoring & Quality Control Specialist, Improved Water Management in BWDB Schemes (Contract Package No. BWDB/S-1) under WB funded Water Management Improvement Project.</p> <p>Responsible for:</p> <ul style="list-style-type: none"> ▪ All Construction Monitoring of the works in FCDFCDI schemes including Quality Control aspects of civil works, structures and embankments etc.; ▪ Prepared monitoring & quality control plan. ▪ Constantly visit and monitor the existing works in site; ▪ Collect all data relating quality of the materials used in site; ▪ 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; ▪ Recommend for each situation the most appropriate alternative and make corresponding cost estimate; ▪ Organize engineering surveys and geotechnical investigation for construction programme; ▪ Arranged hydro-morphological study and investigation, as and 			

	<p>when required;</p> <ul style="list-style-type: none"> ▪ Arrange soil investigations in existing or new borrow areas where earth will be used for embankment construction; ▪ Strictly monitor the works as per detailed design and tender documents prepared. ▪ 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 Engineering & Planning Consultants Ltd.	From May 2015 To May 2016 Team Leader, Consultancy Services for Design and Construction Supervision of 1470m long Paire Bridge (Lebukhali Bridge) over the River Paire on Barisal Patuakhali Road, Bangladesh (KFAED Loan No. 841) – (Hydro-morphological Study completed in 2015 under design phase). 
	Responsible for: <ul style="list-style-type: none"> • Assist consultant's team in reviewing hydraulic regimes of the study area river system; • Analysing with interpretation of hydrological data and hydrodynamic modelling results; • Development scenarios including climate change & sea level rise; • Analysing with interpretation of model results; • Assessment of surface water resources with salinity intrusion and water quality; • Contribution in estimating the dependable flow in surface water system; • Contribution in preparation of reports
EMPLOYER: Bangladesh Water Development Board (BWDB)	From October 1980 to April 2015 From March 2015 to April 2015  Chief, Training & Staff Development; Training & Staff Development Duties involved: Was responsibilities Included Policy Planning, Organizational Set up, Human Resources Development, Intuitional development. 
	From November 2014 to March 2015 Chief Engineer; North-Western Zone, BWDB, Rajshahi. Duties involved: Responsible for: <ul style="list-style-type: none"> • Assist consultant's team in reviewing hydraulic regimes of the study area river system;

- Analysing with interpretation of hydrological data and hydrodynamic modelling results;
- Development scenarios including climate change & sea level rise;
- Analysing with interpretation of model results;
- Assessment of surface water resources with salinity intrusion and water quality;
- Contribution in estimating the dependable flow in surface water system;
- Contribution in preparation of reports

From August 2011 to October 2014

Project Director; Water Management Improvement Project (WMIP), BWDB, Dhaka.

Duties included: Carrying out administrative and financial aspects of project implementation; Implementation of riverbank erosion mitigation and water management systems; guidance and supervision of project planning and implementation with the support of consultants (Including 5 international and about 100 senior local) and NGOs; supervision of institutional development of water management organizations (WMOs), capacity development of staffs and stakeholders; guided the capacity development activities for organizations of the stakeholders; supervision and guidance of social & development activities through peoples' participation; preparation of various project documents; liaison with BWDB, World Bank, line ministries/ departments and other stakeholders etc.

From March 2011 to July 2011

Superintending Engineer; Padma Bridge Project

Duties included: Was responsibility for looking after the river training works including hydro morphology of the Padma Bridge to provide relevant services as an expert from BWDB.

From October 2009 to February 2011

Superintending Engineer/Executive Engineer; Project Manager of JFPR funded social development component under JMREMP.

Duties included: Coordination, supervision and monitoring of implementation of various activities under the project on behalf of PMU, JMREMP including resettlement issues and income generating activities of stakeholders.

From January 2008 to September 2009

Executive Engineer; BRE (Spedal) O&M Division, Sirajgonj, Board-Secretariat, BWDB.

Duties included: Main responsibilities included O&M of Sirajgonj, Sariakandi and Mothurapara hard points; Kalitola groyen, the structures were constructed by the IDA funded Riverbank Protection Project (RBPP) as Executive Engineer, BRE.

From July 2007 to December 2007**Executive Engineer;** Design Circle, FFW; Board- Secretariat, BWDB**Duties included:** Main responsibilities included designing different hydraulic structures for implementation under FFW program. Carrying out necessary hydro-morphological study and design, cost estimates, drawings, and land acquisition etc.**From April 2007 to June 2007****National Procurement/Training Specialist;** Public Procurement Reform Project under ITC-ILO.**Duties Included:** Involved in capacity development through training of various stakeholders in public procurement, and modification of all sorts of procurement related documents based on latest public procurement Act and Rules of Gov. The detailed tasks included assisting implementation of the training component of the project, such as, plan the courses for different levels and occupations of procurement professionals, procurement administration and audit; assist preparation of training manuals and training materials; prepare curriculum in Bangla; conduct To; assist strengthening institutional capacity of the selected training institutions; conduct regular courses and special workshops.**From March 2001 to March 2007****Executive Engineer,** PMU-JMEMP, Cox's Bazar O&M Division, Chittagong WD Division, Jessore O&M Division and CE SEZ Office; Field Level Implementation of various assignments under Bangladesh Water Development Board.**Duties included:** Engaged in different BWDB projects, financed by GOB and various development partners (WB/IDA, ADB, EU, the Netherlands Government, CIDA, WFP, etc) In all stages of project management, which covered identification, feasibility study, planning, designing, estimation, procurement, implementation and operation and maintenance of various irrigation, drainage, flood control, and saline water extrusion projects in Bangladesh. The accomplished projects were in the fields of agricultural and rural development by BWDB, financed by Government of Bangladesh, and different donor agencies. Was associated with a number of reputed international consulting firms such as NHC-Beller, SMEC, JPC-DHV-Mac Donalds, IECO, NHCL, etc.

Acquired relevant experience via working with WMOs and NGOs in a number of assignments. Those included involvements of WMOs, emphasizing people's participation in all stages of BWDB projects, and NGOs with the participation of the community people/beneficiaries for human resources development through capacity development training based on needs assessment; support to income generating activities;



health and sanitation; education; etc.

Participated in the training programs on procurement, and office and financial management, and involved in imparting trainings for the BWDB officials, NGOs staffs and local stakeholders being the Chief Resettlement Officer (CRO) under the ADB-funded Jamuna-Meghna River Erosion Mitigation Project (JMREMP) and Project Manager of the Japan Fund for Poverty Reduction (JFPR) in collaboration with the NGOs. Furthermore, involved in providing training for BWDB field level officials, NGOs staffs and local stakeholders, all activities related to the Social Development, Disaster Preparedness and Involuntary Resettlements of project and erosion affected people, and also in procurement of goods, services and works.

Responsible for procurement of works, goods and services and imparting training for BWDB officials, NGO staff and stakeholders in connection with implementation of ADB-funded Jamuna-Meghna river Erosion Mitigation Project at Pabna Irrigation and Rural Development Project (PIRDP) and Meghna-Dhonagoda Irrigation Project (MDIP).

Also, entrusted with Implementation of the Resettlement Plans (RPs) for the river erosion-affected people, Disaster Preparedness In the project area, and Social Development for the erosion-affected and poor people under the Japan Fund for Poverty Reduction (JFPR).

As the Executive Engineer, BWDB, Cox's Bazar, was Involved in all phases of project management from formulation to implementation supervision Including procurement of works. The projects included Matamuhuri Irrigation Project, Emergency Flood Damage Rehabilitation Project, River Training Works in the coastal belt, and operation and maintenance of 22 polders having about 500km of coastal embankment and about 300 hydraulic structures.

During involvement in the Coastal Embankment Rehabilitation Project, was associated with the development of standard format for evaluation report, and Introduction of the standard tender documents in BWDB, as per PPR 2003.

Was engaged in the implementation of ADB-funded Khulna-Jessore Drainage Rehabilitation Project and Flood Damage Rehabilitation Project - 2000 with specific and major input in procurement of works, its implementation, and associated with the development of Water Management Organizations (WMOs) for their capacity building, involvement in O&M works of the Project, providing training, and supervision of NGO activities.



From October 1984 to February 2001

Sub-Divisional Engineer, Feni O&M Sub-Division-11, Kaptal O&M Division-II, Comilla O&M Sub-Division-11, Hathazari O&M Division, Chandpur Town Protection Sub-Division, Sitakundo O&M Sub-Division, Water Investigation Directorate (JRC). Field Level Implementation of various assignments under Bangladesh Water Development Board.

Duties included: Was involved in different BWDB and donor-funded projects at various locations in different stages of project management. These projects included Coastal Embankment Rehabilitation Project, Muhuri Irrigation Project, Muhuri-Kohua Flood Control Project, Gumi Flood Control Project, Coastal Embankment Project, Halda Extension Irrigation Project, Chandpur Town Protection Project, Cyclone Damage Restoration Project, Flood Damage Restoration Project, Small Scale Flood Control Drainage and Irrigation Project, Early Implementation Project, Ganges Barrage Project, etc. Specific involvements in these projects varied, from identification, feasibility study, planning, designing, estimating, procurement, implementation and operation and maintenance of these various irrigation, drainage, flood control, and protection from saline water extrusion. Was involved in installation of pumps in two pump houses of Halda Extension Irrigation Project including dredging of the Intake channel.

Was also associated with the Indo-Bangladesh Joint Rivers Commission dealing with negotiations of disputes and other related issue to border/common Rivers of the co-riparian countries. Carried out flood management activities during catastrophe. Also participated in training programs on various project formulation and implementation-related fields.

Also responsible for Carryout hydrological and morphological investigations to select bridge sites and erosion protection and study the existing hydrological regime in detail to establish the adequacy of road embankment levels, bridge, culverts and side ditches; Assessment of cross drainage requirements and propose new structures or improvements to existing structures.

From October 1980 to September 1984

Assistant Engineer; Special Studies (Study on Ganges Barrage), Design Directorate-III, Water Investigation (Joint Rivers Commission).

Duties included: Was involved in various studies on the Ganges Barrage and worked with the International Engineering Company. Was engaged in designing various types of hydraulic structures and worked with Northwest Hydraulic Consultants Ltd. Worked in hydraulic and hydrological data analysis including preparation of reports.

Also carried out measurement and analysis of flow of the Ganges while



serving in the Indo-Bangladesh Joint Rivers Commission.

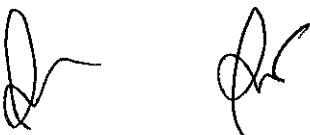
EMPLOYER: Bangladesh Textile Mills Corporation, Directorate of Health, ICDDR,B, The Bar Council.	From April 1980 to September 1980 Junior Engineer; Various assignments under M/S Sthapati Sangsad Limited. Duties included: Was engaged in structural designing, estimating, preparing bid documents and construction supervision of various types of residential, commercial and institutional buildings, community centers, bridges, etc.
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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:

- *June 2016 To Date; Sr. Construction Monitoring & Quality Control Specialist, Improved Water Management in BWDB Schemes (Contract Package No. BWDB/S-1) under WB funded Water Management Improvement Project.*
- *May 2015 To May 2016; Team Leader, Consultancy Services for Design and Construction Supervision of 1470m long Paira Bridge (Lebukhali Bridge) over the River Paira on Barisal Patuakhali Road, Bangladesh (KFAED Loan No. 841) – (Hydro-morphological Study completed in 2015 under design phase).*
- *March 2015 to April 2015; Chief ,Training & Staff Development; Training & Staff Development*
- *November 2014 to March 2015; Chief Engineer; North-Western Zone, BWDB, Rajshahi.*
- *August 2011to October 2014; Project Director; Water Management Improvement Project (WMIP), BWDB, Dhaka.*
- *March 2011 to July 2011; Superintending Engineer; Padma Bridge Project.*
- *October 2009 to February 20 11; Superintending Engineer/Executive Engineer; Project Manager of JFPR funded social development component under JMREMP.*
- *January 2008 to September 2009; Executive Engineer; BRE (Spedal) O&M Division, Sirajgonj, Board-Secretariat, BWDB.*
- *July 2007 to December 2007; Executive Engineer; Design Circle, FFW; Board- Secretariat, BWDB*
- *April 2007 to June 2007; National Procurement/Training Specialist; Public Procurement Reform Project under ITC-ILO.*
- *March 2001 to March 2007; Executive Engineer, PMU-JMEMP, Cox's Bazar O&M Division, Chittagong WD Division, Jessore O&M Division and CE SEZ Office; Field Level Implementation of various assignments under Bangladesh Water Development Board.*
- *October 1984 to February 2001; Sub-Divisional Engineer, Feni O&M Sub-Division-11, Kaptai O&M Division-II, Comilla O&M Sub-Division-11, Hathazari O&M Division, Chandpur Town Protection*



Sub-Division, Sitakundo O&M Sub- Division, Water Investigation Directorate (JRC). Field Level Implementation of various assignments under Bangladesh Water Development Board.

- October 1980 to September 1984; Assistant Engineer; Special Studies (Study on Ganges Barrage), Design Directorate-III, Water Investigation (Joint Rivers Commission).

Training:

Abroad:

- Experience sharing training on major water resources Interventions in Mississippi/Missouri river valley and their impacts; 2 weeks, USA, 2014.
- Experience sharing training on Economic Viability of Large FCDI projects, 2 weeks, Australia, 2014.
- Experience sharing training on IO&M, M&E of FCDI projects, 1 week, Sri Lanka, 2014. Experience sharing training on Irrigation Management and Water Resources Planning, 1 week, Egypt, 2014.
- Experience sharing training on FCDI projects with emphasis on disaster management, 2 weeks, Thailand and Vietnam, 2013.

Local

- GIS Applications in Water Resource Management at CEGIS, Dhaka, 2006.
- Small Scale Water Control Structures under CIDA, Dhaka, 1987
- Micro Computer Applications in **Hydrologic Data Analysis** In IFCDR-BUET, Dhaka, 1986 Small Scale Water Control Structures under NHCL, BRRI, Joydevpur, 1983 Reorientation Course, Engineering Academy, BWDB, Kaptal, 1982

12. COMPUTER SKILLS : Familiar with Microsoft Office Family and Computer Applications in Hydrologic Data Analysis.

CERTIFICATION:

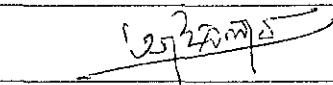
I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes 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


30/08/2017
Day / Month / Year

Date of Signing



CV No. 1

Team Leader cum Hydrological Design
Specialist
Jalaluddin Md. Abdul Hye



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

Name of the Consultant	Engineering and Planning Consultants Ltd. (EPC)
RFP IDENTIFICATION NO.	CIB-S-58
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	: Jalaluddin Md. Abdul Hye, PEng.
3. DATE OF BIRTH	: 31 January 1953
4. NATIONALITY	: Bangladeshi
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	: <ul style="list-style-type: none"> • Life Fellow of the Institution of Engineers, Bangladesh (IEB) since 1983. • Member of the American Society of Civil Engineers 2000-2007 • Member of the International Association of Hydraulic Engineering & Research 2000-2003
6. EDUCATION	: <ul style="list-style-type: none"> • Master of Engineering in Water Resources Development (Civil), University of Roorkee, India, 1988 • B.Sc. Engineering (Civil), University of Rajshahi, Bangladesh, 1973
7. OTHER TRAINING	: <ul style="list-style-type: none"> • MIKE21C Advanced Morphology Modelling (covers both tidal and non-tidal rivers), training held at IWM with resource person drawn from DHI Water and Environment, 6 Weeks, 2006 • Professional Development Programme on Uncertainty and Risk Management, Corporate Strategic Planning and Corporate Marketing Planning, Asian Institute of Technology, Bangkok, Thailand; 1998 & 1999, 2 weeks. • 2-D mathematical morphological modelling, Selected topics, SWMC, April, 1996. • Two Dimensional and Sediment Transport Mathematical Modelling, Workshop Training, Danish Hydraulic Institute (DHI), Denmark; 1995, 4 months; The Workshop covered a very advanced level of training in the state of the art technology in several disciplines of mathematical modelling for river and coastal engineering. • Technical Report Writing Skills in Modern English, British Council, Dhaka, 1995, 6 weeks. • MIKE21 and TRISULA 2-D morphological modelling, Selected topics, SWMC, February and November, 1994. • Mathematical Flood Modelling, Workshop Training, Danish Hydraulic Institute, Denmark, 1993, 4 months. Topics included advanced Numerical techniques, Computational Hydraulics, Hydrology, Tidal analysis, Sediment Transport and Mathematical Modelling. • Water Quality Transport Modelling, SWMC, April-Sep. 1994. • Training of the Trainers in 3 phases sponsored by World Meteorological Organisation for Bangladesh Water Development Board, 1991, 6 months; grade obtained A+(1st); topics included adult education, seminars and training techniques. • Computational Hydraulics and Mathematical Modelling, Institute of Flood Control and Drainage Research, Bangladesh University of Engineering and Technology; June 1990, One Month. Topics included Numerical techniques, Computational Hydraulics, Hydrology, Sediment Transport, Computer Programming and Operating System, Mathematical Modelling. • Project Management Course conducted jointly by Economic Development Institute of the World Bank and Bangladesh Institute of Development Studies; Dhaka, 1980, One Month ; Topics included CPM, DPM, PERT, Project Evaluation, Management Techniques, Contract Documents; Evaluated Report

on 2nd Chittagong Water Supply Project.

Publications:

- "Management Of 2007 Flood And Preparedness For Future Events", Jalaluddin Md. Abdul Hye PEng. and HS Mozaddad Faruque; Presented in a Seminar On Management Of Flood 2007 And Preparations For Future Events organized by Bangladesh Water Development Board; 09 October, 2007; Dhaka.
- "Forecasting of the Padma River Bank Erosion and its Mitigation Measures" Faruq A Mohiuddin, Md Mahboob-ul Kabir & Jalaluddin Md. Abdul Hye PEng.; presented in International Conference on Water & Flood Management; organized by Institute of Water and Flood Management, Bangladesh University of Engineering and Technology, sponsored by Kingdom of the Netherlands, International Association of Hydraulic Engineering and Research, Japan Asian Friendship society and Centre of Environment and Geographic Information Services; 12-14 March 2007, Dhaka
- "Analysis of erosion Vulnerabilities for Different Flood Events to Support Planning and Design of Erosion Protection Measures" Md Mahboob-ul Kabir, Pintu Kanungoe, Fahima Shahadat, Faruq A Mohiuddin & Jalaluddin Md. Abdul Hye PEng.; presented in International Conference on Water & Flood Management; organized by Institute of Water and Flood Management, Bangladesh University of Engineering and Technology, sponsored by Kingdom of the Netherlands, International Association of Hydraulic Engineering and Research, Japan Asian Friendship society and Centre of Environment and Geographic Information Services; 12-14 March 2007, Dhaka
- "Improvement of Navigability of Mongla Port" Nasreen Mohal Salma Akhter, Jalaluddin Md. Abdul Hye PEng.,& Farhad Hossain Sarker; presented in International Conference on Water & Flood Management; organized by Institute of Water and Flood Management, Bangladesh University of Engineering and Technology, sponsored by Kingdom of the Netherlands, International Association of Hydraulic Engineering and Research, Japan Asian Friendship society and Centre of Environment and Geographic Information Services; 12-14 March 2007, Dhaka
- "Hydrological parameters in bridge hydraulics" by Ms. Fahima Shahadat and Jalaluddin Md Abdul Hye PEng; presented in the IWM Annual Users Conference Seminar, 27 Nov 2005;
- "Monitoring of Critical Hydraulics and Morphological Conditions for Maintenance of Bridges" by Faruq Ahmed Mohiuddin PEng and Jalaluddin Md Abdul Hye PEng; presented in the IWM Annual Users Conference Seminar, 27 Nov 2005;
- "Mathematical modelling in hydraulic design of bridges", by Engr. Md. Mouludul Islam, Engr. Pintu Kanungoe, Engr. Anwar Hossain Bhuiyan; Jalaluddin Md. Abdul Hye PEng. presented in the IWM Annual Users Conference Seminar, 27 Nov 2005
- "Simulation of non-uniform erodibility of riverbank in the Padma river" by Kazi Iqbal Hassan, Sarwat Jahan, K C Dey, Mohammad Mamun, Jalaluddin Md Abdul Hye; Masayuki Ogino; selected for presentation at DHI software Conference, Kuala Lumpur Feb 2005
- "Mathematical Modelling in the Planning and Design of Bridge and Road infrastructures: Case Studies in Bangladesh" by ; Kazi Iqbal Hassan , Sarwat Jahan, Jalaluddin Md Abdul Hye; selected for presentation at DHI software Conference, Kuala Lumpur Feb 2005
- "Mathematical Modelling in Coastal Zone Management"; by M M Mahboob-ul-Kabir, Jalaluddin Md. Abdul Hye PEng; two-day seminar on mathematical water modelling for water resources planning, design and development, Department of civil engineering, Institut teknologi Brunei; 6-7 October 2004.
- "Cyclone Storm Surge Modelling for Design Of Coastal Polders" By M Mahboob-ul-Kabir, Bikash C. Saha and Jalaluddin Md. Abdul Hye, International Conference on Water Related Disasters ICWRD-2002 organised by Indian Association of Hydrologists, Roorkee and West Bengal Regional Centre,

Kolkata, December 5, 6, 2002; ISBN 81-224-1436-2

- "Monitoring, implementation and maintenance of existing and future river training works for control of erosion" by Kazi Iqbal Hassan and Jalaluddin Md. Abdul Hye; a case study paper presented in the Asia-Pacific Consultation Workshop on Water and Poverty, Dhaka, 22-26 September 2002.
- "Past studies and further scopes on wave modelling in the coastal region of Bangladesh" by M.M. Kabir, M.H. Azam, B.C. Saha, J.M.A. Hye; BA 006 – Marine track - Conference Proceedings of the 1st Asia-Pacific DHI Software Conference, Bangkok 17-18 June 2002
- "Effect of spatial bed roughness variation on two-dimensional morphological computation at Ganges-Gorai bifurcation"; K.I. Hassan, J.M.A. Hye; BA 008 – Marine track - Conference Proceedings of the 1st Asia-Pacific DHI Software Conference, Bangkok 17-18 June 2002
- "Application of the CERP Modelling Tools for Future Coastal Zone Management and Development Activities"; National Seminar 7 April 2002; Bangladesh
- "Modelling Approach in Climate Impact Assessment for the Bangladesh Coastal Area" - J. Md. Abdul Hye and Md. Mahboob-ul-Kabir; A technical Paper presented in the International Congress on Modelling and Simulation-MODSIM 2001; The Australian National University, Canberra, Australia; 10-13 December 2001; Proceedings page no. 715.
- "Modelling Response to Flow and Sediment Regimes Changes due to Construction of a Bridge upstream of an Existing Bridge" - Ms. Sarwat Jahan and J. Md. Abdul Hye; A technical Paper presented in the International Congress on Modelling and Simulation- MODSIM 2001; The Australian National University, Canberra, Australia; 10-13 December 2001; Proceedings page no. 215
- "Application of Mathematical Modelling for design of Bank Protection Work: A case Study for the Ganges River", Kazi Iqbal Hassan, M. Mamun, Jalaluddin Md. Abdul Hye, Aminul Hoque; A technical Paper presented in the first international conference and annual paper meet on civil engineering held at IEB Chittagong Centre Bangladesh 2-3 November 2001; organised by Institution Engineers Bangladesh Civil Engineering Division and FEISCA; proceedings page no. 283.
- 'Gorai River Restoration Project: Mathematical Morphological Modelling For The Design Of Engineering Measures', by Kazi Iqbal Hassan, Ayub Ali, Mouludul Islam, Jalaluddin Md. Abdul Hye; A technical Paper presented in the first international conference and annual paper meet on civil engineering held at IEB Chittagong Centre Bangladesh 2-3 November 2001; organised by Institution Engineers Bangladesh Civil Engineering Division and FEISCA; proceedings page no. 300.
- 'Fluvial Hydraulics in River Morphology' by Dr. Mostafa Ataus Samad, Mr. Jalaluddin Md. Abdul Hye and Professor M Monowar Hossain, A technical Paper presented in the National Seminar on State-of-the-art morphological modelling in prediction of river hydraulics and morphology organised by Bangladesh Water Development Board on 21st July 2001 at the Bhagyakul Water Dev. Board Training Institute; proceedings is in the press.
- 'State-of-the-art Morphological Modelling in Prediction of River Hydraulics and Morphology' by Mr. Kazi Iqbal Hassan, Mr. Mohammad Mamun, Mr. Jalaluddin Md. Abdul Hye and Professor M.F. Barl, A technical Paper presented in the National Seminar on State-of-the-art morphological modelling in prediction of river hydraulics and morphology organised by Bangladesh Water Development Board on 21st July 2001 at the Bhagyakul Water Dev. Board Training Institute; proceedings is in the press.
- Two Dimensional Morphological Modelling With Mike21c: A Case Study To Evaluate The Response Of Flow And Sediment Regimes Changes Due To Constriction By A Bridge by Sarwat Jahan, Kazi Iqbal Hassan, Shoma Tanzeera, Md. Parvez Anwar, Jalaluddin Md. Abdul Hye and Henrik Garsdal in the 4th DHI Software Conference, Copenhagen, Denmark, 6-8 June, 2001

- 'Mathematical Morphological Modelling Programme for the Bangabandhu Bridge: Two-Dimensional Mathematical Morphological Model' by Kazi Iqbal Hassan, K C Dey, Jalaluddin Md. Abdul Hye presented in a workshop arranged by Jamuna Bridge Authority, February 4, 2001
- 'Mathematical Hydraulic Modelling in Monitoring and Quality Controlling of the Gorai River Off-take Dredging in Bangladesh', Faruq Ahmed Mohiuddin, Jalaluddin Md. Abdul Hye, A technical Paper presented in the Session 3B of the 16th World Dredging Congress organised by World Organisation of Dredging Associations and Eastern Dredging Association 2-5 April 2001; proceedings Volume-1.
- 'Specialised techniques of hydrographic Survey and Morphological Modelling as applied in monitoring and predicting the Bank erosion and critical morphological condition', Paper presented at the workshop arranged by Water Development at Sirajganj, Bangladesh, 18 June 2000
- 'Impact of Dredging the Upstream Sand bar on the Bridge Hydraulics – A case study by mathematical Modelling', Jalaluddin Md. Abdul Hye and Sarwat Jahan; A technical Paper presented in the 44th Annual Convention of the Institution Engineers Bangladesh held in Sylhet, 28 Feb-2 Mar, 2000.
- 'Mathematical Hydraulic Modelling for River Training'; a key note paper presented at the 2nd Users' Conference of the Surface Water Modelling Centre held on 31 July 1999 at Dhaka Bangladesh.
- 'Technical Evaluation and Co-ordination between Gorai River Restoration Project and Paksey Bridge Construction Project'; a seminar presented on 15 May 1999 to the Engineers and Specialists of Bangladesh Water Development Board and Roads and Highways Department of Bangladesh.
- 'Gorai River Restoration Project: A Sustainable Approach', Jalaluddin Muhammad Abdul Hye, A technical paper presented in the 43rd annual convention of the Institution of Engineers, Bangladesh, 5-8 March 1999.
- 'Development and Application of Surface Water Models For Hydrological Assessment and Hazards Mapping in Bangladesh', Jalaluddin Md. Abdul Hye, Dr. Guna Nidhi Paudyal, Emaduddin Ahmad and SM Mahbubur Rahman; a technical paper presented in the International Symposium on Emerging Trends in Hydrology (September 25-27, 1997) Organised by Department of Hydrology, University Of Roorkee, Roorkee-247677, UP, India.
- 'Mathematical Morphological Modelling for River Training Works Of Jamuna River at Jamuna Bridge Site, Kazi Iqbal Hassan, Jalaluddin Md. Abdul Hye and Hans Enggrob; Technical Paper, presented in the Technical Session of the 41st annual convention of the Institution of Engineers, Bangladesh, held Dhaka, December 12, 1996.
- '1-D Morphological Model of the Gumti River', Carsten Staub, Jalaluddin Md Abdul Hye and Faruq Ahmed Mohiuddin; Technical Paper, Presented in the Technical Session of the 39th annual convention of the Institution of Engineers, Bangladesh, held Chittagong , January 9-12, 1995
- 'Mathematical Model Study of Teesta Barrage Project', Jalaluddin Md Abdul Hye and Abu Saleh Khan, 1994; presented in 1994 user conference, SWMC.
- 'Flood Control in Bangladesh and the Study of River Morphology', A S M Abdul Khaleque and Jalaluddin Md Abdul Hye, 1994; 1994 issue of the journal of the River Research Institute.
- 'The Study Of River Morphology In Implementing Water Resources Project Of Bangladesh, A.S.M. Abdul Khaleque and Jalaluddin Md. Abdul Hye, 1993; proceedings of the international workshop on "morphological behaviour of the major rivers in Bangladesh"; Dhaka 1993.

8. LANGUAGE AND DEGREE OF PROFICIENCY	:	Language Bengali English	Speaking Excellent Excellent	Reading Excellent Excellent	Writing Excellent
9. COUNTRIES OF WORK EXPERIENCE	:	Bangladesh			

10. EMPLOYMENT RECORD

EMPLOYER:

Engineering and Planning
Consultant Ltd. (EPC),
Bangladesh

: FROM APRIL 2016 TO DATE

Team Leader, Consultancy Services for Hydrological and Morphological Study and Environmental Impact Assessment (EIA) for Construction of 100.00m-Long RCC Bridge on Achintapur UP H/Q – Bhalukapur Bazar Road over Jalburunga River under Gouripur Upazila, Dist. Mymensingh.

Responsibilities includes:

- Guide and supervise the study team in carrying out the hydrological, hydraulic, morphological, social and design related activities;
- Coordinate the study activities;
- Take responsibility for the quality of the consultancies jobs and devising the potential options;
- Contribute in preparing reports and submitting to the Local Govt Engineering Department LGED authority

EMPLOYER:

Geocomp Corporation, USA
and Development Design
Consultants Ltd., Bangladesh

: FROM JUL 2015 TO MARCH 2016

System Analyst / Water Resources Engineer.

Responsibilities includes:

- Contributed to Reconnaissance surveys meetings with BWDB officials and technical proposal preparation of World Bank Aided "Consulting Services for Asset Management System of Brahmaputra Right Embankment under River Management Improvement Project"
- Contributed to Proposal for detailed technical, economical, environmental, operational, financial feasibility study and traffic impact assessment of "Construction of Bay Terminal" for Chittagong Port and "preparation, design and supervision (pds) consultancy under project design advance for City Region Development Investment Program
- "Consultancy for Detailed Design, Bid preparation and Construction Supervision for Jamuna Railway Bridge Construction Project Funded By JICA.
- "consulting services through Cities Development Initiative for Asia (CDIA) for pre-feasibility studies and preliminary engineering in the Gazipur and Khulna city corporations, Bangladesh"

EMPLOYER:

Development Design
Consultants Ltd. And Chodai
Co.,Ltd Japan

: FROM JUN 2015 TO JUN 2015

Sr. Hydrological Engineer

Responsibilities includes:

Contribute to the Supplemental Survey Team fielded by JICA in the field visit, Data collection, Hydrological and Hydraulics analysis in connection with proposed construction of Jamuna Railway Bridge at about 300 m upstream of existing Bangabandhu Multi-purpose Bridge opened in June 1998 over the Brahmaputra-Jamuna river the fifth largest in the world in terms of volumetric discharge. The Bridge was the 11th longest bridge in the world when constructed in 1998 and currently the 6th longest bridge in South Asia.

EMPLOYER:

IPA Ltd. / SHM Fakhruddin of
Regional Integrated Multi-hazard Early Warning System,
Maldives

: FROM JAN 2014 MAY 2015

Climate Change Adaptation Advisor (Online over internet) for The UNDP-GEF Least Developed Countries Fund (LDCF) project "Economy-wide integration of Climate Change (CC) Adaptation and DRM/DRR to reduce climate vulnerability of communities in Samoa"

Responsibilities includes:

- Reviewing of relevant technical and hydraulic modelling reports of the rivers and coastal waters.
- Detailing out activities for engineering intervention in riverine and coastal urban infrastructures that could be made to Samoa to enhance the community resilience to disaster and climate change with details of costing and activities as project implementation
- Developing a case study for vulnerability assessment of infrastructure with application of appropriate models.

EMPLOYER :
BETS consulting services Ltd.
and Njs consultants co. Ltd.

FROM JUL 2013 TO JAN 2014

Hydrodynamic Modeling Expert, "Feasibility Study, Design and Construction Supervision of Modunaghat Water Treatment Plant and Related Transmission Pumping Facilities" under Chittagong WASA."

Responsibilities includes:

- Assist consultant's team in reviewing hydraulic regimes of the Halda-Karnafuli river system in the study area;
- Analyzing with interpretation of hydrological data and hydrodynamic modelling results;
- Development scenarios including climate change & sea level rise;
- Analysing with interpretation of model results;
- Assessment of surface water resources with salinity intrusion and water quality;
- Contribution in estimating the dependable flow in surface water system;
- Contribution in preparation of reports

EMPLOYER:
AECOM Asia Ltd and
Development Design
Consultants Ltd.

FROM FEB 2012 TO FEB 2013

Deputy Team Leader/Urban Drainage Modelling Expert, ADB Capacity Dev. TA Project. 'Strengthening the Resilience of the Urban Water Supply, Drainage, and Sanitation to Climate Change in Coastal Towns'

Responsibilities includes:

Closely worked with international mathematical modelling expert and national hydraulic modelling experts to formulate guidelines for developing climate resilient infrastructural measures for river and coastal waters and urban drainage. Established and maintained good coordination with the executing and implementing agencies, other relevant organizations, and ADB, as well as assisted the team leader in ensuring high-quality work and in submitting high-quality reports.

EMPLOYER:
Development Design
Consultants Ltd.

FROM NOV 2011 TO FEB 2012 & FEB 2013 TO JUNE 2013

Senior Hydraulic Engineer for Detailed Feasibility Study, Socio-economic environment and other hydraulic and hydro-morphological survey and study and a detailed engineering design for the construction of a Barrage and associated engineering infrastructures across and along river Ganges. Study the integrated water resources development in the Ganges Dependent Area in Bangladesh.

Responsibilities includes:

- Analysed detailed fluvial hydraulics of the Ganges for barrage site selection, river training works and designs and of its distributaries' river systems as the main and secondary irrigation canals by applying MIKE11 and MIKE21 System of Modelling of the Ganges Dependent Area and the Coastal Zone of Northern Bay of Bengal;
- Studied backwater and Tail water effect of Barrage;
- Studied sedimentation and drainage measure;
- Studied sediment transport; and
- Studied the navigability of Ganges dependent area;
- Assist Team Leader.

EMPLOYER:
Joint Venture of CIS India,
DEVCON, DPM and Kranti
Associates

FROM JAN 2011 TO SEP 2011

Advisor, World Bank Aided Project for Updating the revamping plan for Coastal Embankment Improvement Program (CEIP) in a programmatic approach.

Responsibilities includes:

Reviewed and formulated necessary hydrologic, hydraulic, river and estuarine dynamics, sediment transport, and morphological analysis according to the best international practices in order to develop best strategy for improving the performance of Coastal defence system in a sustainable way with minimum O&M requirements. The formulation included use of satellite imagery and mathematical modelling systems, deciding on the exact range of sea level rise and height of storm surge, present population density and projected increase, economic activity of the area, the value of current assets to be protected and forecast projections for the next 20-25 years. Return periods and frequency for cyclone surges and their

probable direction, desirable level of protection, experience in stability of current embankments, availability of local material for construction and maintenance, drainage systems for polderized system under different intensity of rains and tides, and valuation of potential impact of sea level rise and storm surge on coastal embankments. Various combinations also studied for more optimal design of embankment system, such as height raising and or easing of slope and forestation on the sea side, creation of safe haven shelters at the appropriate locations, early cyclone warning system etc., to reduce the disaster risks.

EMPLOYER:
Bangladesh Unnayan Parishad

: **FROM OCT 2010 TO DEC 2010**

Research Director

Responsibilities includes:

Direction to Institutional Development, Climate Change Adaptation and water resources research projects. Provided professional and editorial services to project proposal

EMPLOYER:
Water Resources Planning
Organisation

: **FROM JUL 2008 TO JAN 2010**

Director General, DG WARPO, Secretary MOWR, Bangladesh Govt.

Responsibilities includes:

CEO of the macro-level National planning organisation in the water sector with particular focus on water management for irrigation, flood management, river engineering, all consumptive uses, navigational and non-navigational uses and environmental protection; co-ordinated implementation of National Water Management Plan and integrated coastal zone management programme, formulated climate change water sector strategy and action plan, poverty reduction strategies and clearing house of water resources projects including river engineering and erosion management; functioned as board member of Water sector institutions, member of inter-ministerial committees including National Water Council and also a Govt. Trustee of Institute of Water Modelling (IWM). Member of The Netherlands-Bangladesh Twining Committee for water sector institutional improvement also country manager for ADB aided regional Technical Assistance project on IWRM implementation and World Bank aided water management improvement project.

EMPLOYER:
Bangladesh Water
Development Board (BWDB)

: **FROM JAN 2007 TO JUL 2008**

Additional Director General (Planning), Chief Engineer

Responsibilities includes:

As the second in command of the national statutory organisation for implementation of country wide flood control, irrigation, river and coastal engineering and management projects in the light of National Water Management Plan incorporating IWRM and ICZM concepts, framing and implementing planning policies, Representing BWDB in project planning and responsible for all related matters to BWDB and the Govt. of Bangladesh; provided input to National level perspective and development plans. Directed the function of Chief Planning, Chief Engineer Hydrology and Chief Engineer Design. Coordinated with Different Department, Ministries and Agencies of the Govt of Bangladesh. Provide leadership to Hydrological, data campaign, Flood Forecasting, project planning & design teams of BWDB
Also functioned as the Project Director of Ganges Barrage Feasibility Study and Detailed Design.

EMPLOYER:
Institute of Water Modelling
(IWM)

: **FROM APR 1997 TO JAN 2007**

Deputy Executive Director, Division Head

Responsibilities includes:

- Team leader/supervisor/quality auditor of Study Projects in connection with North West Regional River System Analysis including Command Area Development of Teesta Project and Pabna irrigation and Rural Development Project, morphological analysis related to bridge and river engineering projects such as Jamuna Bridge, BHairab Road Bridge, Paksey Road Bridge, Padma Bridge and more than 10 other bridges over regional rivers like Arial khan and

- Dhaleswary and Tsunami/climate change impacts; Gorai River Restoration Project, Gorai River Re-Excavation Pilot Dredging Project, Meghna-Dhonogoda Irrigation Project,
- Hydraulic Modelling aided monitoring of Jamuna Bridge and associated river training works. Coastal Embankment Rehabilitation Project and coastal development studies in Malaysia; sea level rise coastal impact study; coastal protection studies.
 - Corporate management, strategic and business planning, marketing planning and monitoring of the plans; ensuring timely submission of proposals, negotiations and relevant other documents for new projects; instituting and managing need based HRD programme; Annual reporting;
 - 2005: Sea-level rise impact study for Bangladesh Coast.
 - 2006: Teesta Barrage Operation: Pondage Shoal removal and river stabilisation hydraulic study & River training work design
 - 2006: Land Reclamation near Nijhum Dwip in the Bay of Bengal Hydraulic study
 - 2005-2006: Bank Erosion Protection Hydraulic study & designs: Brahmaputra River; Meghna River, Ganges-Padma River
 - 2005: Proposed TATA Urea Plant Port Jetty Hydraulic study and site selection in the Sangu Estuary
 - 2005-2006: Sungai Langat navigational improvement, Malaysia
 - 2005: The Proposed Padma Bridge (6km) Hydraulic Study
 - 2004: Langkawi Butik Island development project Malaysia
 - 2003-2004: Feasibility Study for improvement of navigability of the Mongla Port
 - 2003: Hydraulic Design of Dewanganj Bridge
 - 2002-03: Hydraulic Design of Elasin Bridge
 - 2002: Aricha-Notakhola navigation improvement
 - 2001-02: Study on creating a perennial waterbody at Ashulia
 - 2002: Environmental Impact of land development project on Lunchoo River estuary Johor Bay Malaysia
 - 2000-01: Hydro-morphological study for design of Sherpur Bridge on the Old Brahmaputra
 - 2000-01: Hydro-morphological study for design of Khurshidmohal Bridge on the Old Brahmaputra
 - 2001: Hydraulic Design of Lower Meghna River Bank Erosion Protection Work at Ibrahimpur Bazaar and Haimchar on the Lower Meghna River
 - 2001-2002: Hydraulic Design of Jamuna River Bank Erosion Protection Project at Fulcharighat and Kamarjani Bazaar
 - 1999-2000: Meghna Estuary Study (FAP5B), Phase II, Bangladesh
 - 1997: Morphological Study of the coast near Sangu Gas Field
 - 1997-1998: Modelling Study Supporting Social and Environmental Impact Assessment of the Khulna JESSORE Drainage Rehabilitation Project
 - 1998-2001: Paksey Road Bridge Construction Project: Roads and Highways Department, Bangladesh: This is an OECF financed project comprising a 1786 m Bridge over the Ganges River just down stream of the existing Hardinge Bridge; supervision consultant Mssrs Parsons Brinckerhoff Inc. USA. My job is to supervise a team of SWMC-DHI specialists conducting hydraulic mathematical modelling to obtain knowledge about the scour development at the Hardinge and Paksey bridges and the morphological impact downstream.
 - 1998: Bhairab Bridge Construction Project: Roads and Highways Department, Bangladesh. to supervise a team of SWMC-DHI specialists conducting hydraulic mathematical modelling to obtain knowledge about the scour development at the existing railway and proposed road bridges and the hydraulic and morphological impacts.
 - 1998-2001: Gorai River Restoration Project: to lead a joint team of national and international specialists of SWMC-DHI in a three-year morphological modelling (one-dimensional and two-dimensional) study and related hydrographic survey campaign to support the full fledged feasibility and design study of the Project.

- 1998-2001: Gorai River Restoration Project: Quality Control of Pilot Priority Works (funded by GoN and GoB); Leading a joint team of national and international specialists in a two-year modelling (one-dimensional and two-dimensional) study and related hydrographic survey campaign in the quality control of the strategic dredging of the dying offtake of the Gorai River as an experimental set up to study the dredging methods and its sustenance and also its effect in the dry season.
- 1997-2001: River Bank Protection Project, Bangladesh funded by WB.
- 1997: Gorai Augmentation Project: Mathematical Modelling for Dredging Optimisation in Connection with Gorai Restoration
- 1997-1999: Joint Scientific Study Team on the Ganges Flow Sharing of Indo Bangladesh Joint Rivers Commission

EMPLOYER:
Surface Water Modelling
Centre

: **FROM JAN 1990 TO MAR 1997**
Project Coordinator, Deputy Project Coordinator, Executive Engineer
Responsibilities includes:

- Responsible together with the expatriate Chief Technical Advisor of the international consultant the Danish hydraulic Institute for successful completion of the Danida-GoB Technical Assistance Project "Surface Water Simulation Modelling Programme, (SWSMP);
- The main task of the project was to successfully transfer the state of the art hydrographic and hydrometric measurement, DSS, mathematical modelling technology (phase I of the programme started in 1986) to Surface Water Modelling Centre and Institutionalise SWMC as a Centre of Excellence in the field (later on renamed as Institution of Water Modelling).
- Led the International and National Group of Specialist in developing and transferring the river system models of Teesta Project phase-1 command area. Hydraulic Modelling aided monitoring of Jamuna Bridge and associated river training works.
- 1996-97: Meghnaghat Power Station Project, feasibility study; Survey and hydraulic modelling: Bangladesh
- 1996: Nalka-Hatikumrul-Bonpara Road Project (Jamuna Bridge Access Road); Bangladesh: Client DHV Consultant
- 1996: Environmental studies for Khulna-Jessore Drainage Rehabilitation Project: SMEC/ADB.
- 1996: MIKESHE modelling of the Jamuneswar Basin, Bangladesh
- 1996: Morphological Study of the Gorai Offtake, Bangladesh, River Survey Project (FAP24) study component
- 1996: Paksey Bridge Two-Dimensional Model, Bangladesh, Mott Macdonald
- 1995-1996 Mathematical Morphological Model of Jamuna River Bridge Site, Bangladesh, Danish Hydraulic Institute
- 1995-1996 Bridge Improvement Project Phasell, Bangladesh
- 1995-1996 Mathematical Modelling Study of the Khowai Bypass, Bangladesh
- 1994-1995: Integrated Resource Development of the Sundarbans Reserved Forest, Hydraulic Modelling Study, FAO/UNDP BGD/84/056
- 1990-1993, Surface Water Simulation Modelling Programme, Phase II, Bangladesh

EMPLOYER:
Bangladesh Water
Development Board

: **FROM JUN 1975 TO DEC 1989**
Sub-divisional Engineer, Executive Engineer
Responsibilities includes:

Formulate prepare tenders, implement supervise development projects in the national water sector including Tubewell Irrigation projects, river engineering projects, supplemental irrigation project by diversion through barrages and lifts by pumps. Mentionable projects worked with are Brahmaputra Right Flood Embankment, Pabna Irrigation and Rural development Project, North Bangladesh Tubewell Project, Teesta Project, Buribundh Irrigation project

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:

- Team Leader, Consultancy Services for Hydrological and Morphological Study and Environmental Impact Assessment (EIA) for Construction of 100.00m Long RCC Bridge on Achintapur UP H/Q – Bhalukpur Bazar Road over Jalburunga River under Gouripur Upazila, Dist. Mymensingh (*April 2016 to date*).
- System Analyst/ Water Resources Engineer, Reconnaissance Survey of Asset Management System of Brahmaputra Right Embankment under River Management Improvement Project for WB Funding. (*Jul 2015 To March 2016*)
- Sr. Hydrological Engineer, Consultant Team of the Supplemental Survey of the Jamuna Railway Bridge Construction Project for JICA Funding. (*Jun 2015 To Jun 2015*)
- Climate Change Adaptation Advisor (Online over internet) for The UNDP-GEF Least Developed Countries Fund (LDCF) project "Economy-wide integration of Climate Change (CC) Adaptation and DRM/DRR to reduce climate vulnerability of communities in Samoa" (*Jan 2014 Jun 2015*)
- Hydrodynamic Modelling Expert, Feasibility Study, Design and Construction Supervision of Modunaghat Water Treatment Plant and Related Transmission Pumping Facilities" under Chittagong WASA. (*Jul 2013 To Jan 2014*)
- Deputy Team Leader/Urban Drainage Modelling Expert, ADB Capacity Dev. TA Project. 'Strengthening the Resilience of the Urban Water Supply, Drainage, and Sanitation to Climate Change in Coastal Towns'. (*Feb 2012 To Feb 2013*)
- Senior Hydraulic Engineer for detailed feasibility study, socio-economic environment and other hydraulic and hydro-morphological survey and study and a detailed engineering design for the construction of a Barrage and associated engineering infrastructures across and along river Ganges. Study the integrated water resources development in the Ganges Dependent Area in Bangladesh. (*Feb 2013 To June 2013 & Nov 2011 To Feb 2012*)
- Advisor, World Bank Aided Project for Updating the revamping plan for Coastal Embankment Improvement Program (CEIP) in a programmatic approach. (*Jan 2011 To Sep 2011*)
- Research Director, Direction to Institutional Development, Climate Change Adaptation and water resources research projects. Provided professional and editorial services to project proposal. (*Oct 2010 To Dec 2010*)
- Director General, DG WARPO, Secretary MOWR, Bangladesh Govt., Water Resources Planning Organisation. (*Jul 2008 To Jan 2010*)
- Additional Director General (Planning), Chief Engineer, Bangladesh Water Development Board (BWDB). (*Jan 2007 To Jul 2008*)
- Deputy Executive Director, Division Head, Institute of Water Modelling (IWM). (*Apr 1997 To Jan 2007*)
- Project Coordinator, Deputy Project Coordinator, Executive Engineer, Surface Water Modelling Centre. (*Jan 1990 To Mar 1997*)
- Sub-divisional Engineer, Executive Engineer, Bangladesh Water Development Board. (*Jun 1975 To Dec 1989*)

Training:

- MIKE21C Advanced Morphology Modelling (covers both tidal and non-tidal rivers), training held at IWM with resource person drawn from DHI Water and Environment, 6 Weeks, 2006
- Professional Development Programme on Uncertainty and Risk Management, Corporate Strategic Planning and Corporate Marketing Planning, Asian Institute of Technology, Bangkok, Thailand; 1998 & 1999, 2 weeks.
- 2-D mathematical morphological modelling, Selected topics, SWMC, April, 1996.
- Two Dimensional and Sediment Transport Mathematical Modelling, Workshop Training, Danish Hydraulic Institute (DHI), Denmark; 1995, 4 months; The Workshop covered a very advanced level of training in the state of the art technology in several disciplines of mathematical modelling for river and coastal engineering.
- Technical Report Writing Skills in Modern English, British Council, Dhaka, 1995, 6 weeks.
- MIKE21 and TRISULA 2-D morphological modelling, Selected topics, SWMC, February and November, 1994.
- Mathematical Flood Modelling, Workshop Training, Danish Hydraulic Institute, Denmark, 1993, 4 months. Topics included advanced Numerical techniques, Computational Hydraulics, Hydrology, Tidal analysis, Sediment Transport and Mathematical Modelling.
- Water Quality Transport Modelling, SWMC, April-Sep. 1994.
- Training of the Trainers in 3 phases sponsored by World Meteorological Organisation for Bangladesh Water Development Board, 1991, 6 months; grade obtained A+(1st); topics included adult education, seminars and training techniques.
- Computational Hydraulics and Mathematical Modelling, Institute of Flood Control and Drainage Research, Bangladesh University of Engineering and Technology; June 1990, One Month. Topics included Numerical techniques, Computational Hydraulics, Hydrology, Sediment Transport, Computer Programming and Operating System, Mathematical Modelling.
- Project Management Course conducted jointly by Economic Development Institute of the World Bank and Bangladesh Institute of Development Studies; Dhaka, 1980, One Month ; Topics included CPM, DPM, PERT, Project

Evaluation, Management Techniques, Contract Documents; Evaluated Report on 2nd Chittagong Water Supply Project.

CERTIFICATION:

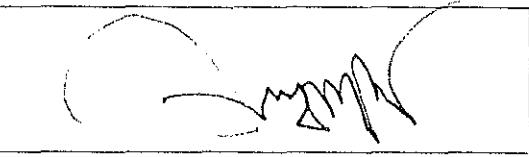
I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes 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



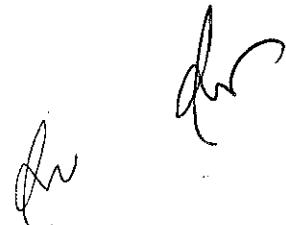
08/06/2017
Day / Month / Year

Date of Signing

CV No. 2

**Sr. Hydrologist
A.H.M Kausher**





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

Name of the Consultant	Engineering and Planning Consultants Ltd. (EPC)
RFP IDENTIFICATION NO.	CIB-S-58
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	: Senior Hydrologist
2. NAME OF PERSON	: A.H.M. Kausher
3. DATE OF BIRTH	: 31 December 1953
4. NATIONALITY	: Bangladeshi
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	: Life Fellow, Institution of Engineers, Bangladesh.
6. EDUCATION	: <ul style="list-style-type: none"> • M.Sc.(Equivalent) (Post Graduate Diploma in Hydraulic Engineering), International Institute of Hydraulic Engineering(IHE), Delft, The Netherlands. • B.Sc. Engineering, Water Resources, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh, 1977
7. OTHER TRAINING	: <ul style="list-style-type: none"> • National Workshop on Training Course on Preliminary Aids and Relief of Disaster Prone Region, BANBEIS, Dhaka, 23-25 November 2009. • Training on "Post Disaster Damage and Loss Assessment (DALA)", World Bank, Dhaka, 15-16 March, 2009. • Training on Project Monitoring and Reporting under IFAD project at BWDB, 16-17 days, June 2002. • Modernization of BWDB Accounts System, Dhaka, 01-06-June 2002. • Advanced Presentation Course using MS Power Point, CEGIS, Dhaka, 07-15 April, 2002 • Training on GIS and CAD, Institution of Engineers, Dhaka, 5 August to 7 October 2001 • Training on Project Management, Training Directorate, Dhaka 26 October to 10 November, 1997 • On the job training on GPS at Bhagyakul Training Institute, 8 to 16 July 1997. • Training on Photogrammetric Equipment, Mapping Cell, Dhaka, 08-18 June 1997 • Training on trainers for O&M training program, Training Directorate, BWDB, Dhaka, 22 February to 06 March 1997 • UNIX user level training, UNDP, Dhaka, 1 Month in 1995. • Computer Programming Course, Fortran Language, BUET, Dhaka October 1983, 19 days.
<p>Foreign</p> <ul style="list-style-type: none"> • Training Program on Low Flow, Draught and Climate Change held at Thimpo, Bhutan from 28.11.2010 to 03.12.2010. • Workshop on Atmospheric, Storm Surge and Hydrological Modelling in Bangkok, Thailand from 7 to 9 November 2010. • Regional Training on "Climate Risk Management" Asian Disaster Preparedness Center (ADPC), Bangkok, Thailand, May 2009, 6 days • Visit of the Bangladesh Delegation to India to Monitor the joint observation sites and water sharing arrangement at Farakka, and attend the 42nd meeting of Indo-Bangladesh Joint Committee, Kolkata, India, April 2009, 4 days • International Conference on Delta and Coastal Development, Aquaterra RAI, Amsterdam, the Netherlands, February 2009, 3 days (presented a paper on innovative approach in IWRM) • Delta 2007: Managing the Coastal Land-Water Interface in Tropical Delta Systems International Conference, Bang Sean, Thailand, November 2007, 3 	

		<p>days (presented a paper on participatory water management)</p> <ul style="list-style-type: none"> • Integrated Planning for Sustainable Water Management (IPSWAM) Study Tour in the Philippines, NIA Consult, Manila, The Philippines, September 2006, 8 days • 2nd Annual Meeting of CPWF Project 10 at IRRI, Los Banos, Philippines, IRRI, The Philippines, March 2006, 6 days • Training course on "Multidisciplinary Participatory Planning for Sustainable Water Management", ISS, The Hague, the Netherlands, September 2005, 22 days • International seminar on "Environment and Livelihoods in Tropical Central Zones: Managing Agriculture-Fishery-Aquaculture Conflicts", Bac Lieu, Vietnam, March 2005, 4 days • Seminar on Management of Urbanization: Flood management in Secondary Cities, UNPAR, Bandung, Indonesia, December 2002, 6 days • Training on Environmental Management, the Netherlands, May 2000, 18 days • Training of Photographic Mapping Systems Focus, Germany, January 1998, 10 days • Training on Operation and Maintenance of Survey Equipments, Germany, February 1996, 5 days • Training on Water Resources Information Systems, AIT, Bangkok, Thailand, Feb '95 to Apr '95, 3 months including dedicated 15 day training on MIKE 11 Hydrodynamic Model. • International Course on Hydraulic Engineering, IHE, Delft, The Netherlands, Oct '85 to Sep 86, 11 months. 			
8. LANGUAGE AND DEGREE OF PROFICIENCY	:	Language	Speaking	Reading	Writing
		Bengali	Native	Native	Native
		English	Excellent	Excellent	Excellent
		Arabic	No	Good	Good
9. COUNTRIES OF WORK EXPERIENCE	:	Bangladesh			
10. EMPLOYMENT RECORD	:	<p>EMPLOYER: Engineering and Planning Consultants Ltd.</p> <p>From April 2017 To Date Adviser, Water Resources; Various assignments of EPC Responsibility: Provide advisory services to ongoing projects of the firm, collection of data and documents and reports, impart training to junior engineers for modeling; coordination and liaison with clients.</p> <p>EMPLOYER: Bangladesh Centre for Advanced Studies (BCAS)</p> <p>From May 2016 To March 2017 Research Uptake Specialist; Research Uptake Specialist (Consultant): a specialist in research uptake and communication and will be a member of BCAS HI-AWARE team with whom (s)he will regularly liaise. Responsibility:</p> <ul style="list-style-type: none"> • Review current policies and gaps in policies (if any) of Bangladesh related to water resources management and poverty reduction in the Teesta river basin and its sub-basins to assess their implications for equity across different categories of uses and users; • Develop a stakeholder engagement plan to follow the identification of key stakeholders and evaluation of each stakeholder's role in making and influencing policy; • Synergize evidences, convincing cases, and options for actions providing insights into how different practitioners deal with future decision making and inherent uncertainties; • Make a plan to engage different types of practitioners in knowledge sharing and knowledge co-creation outlining ways to encourage networking among practitioners and other stakeholders, for example, multi-stakeholder dialogues; 			

- Create a country level framework for monitoring the processes and impacts of RiU;
- Provide inputs in HI-AWARE strategies for influencing policy and practice;
- Facilitate RiU events in partner countries; and
- Ensure periodic evaluation and learning of the used strategies.

EMPLOYER:

SMEC Bangladesh, A Member of the Consortium (Castalia, USA , ARCADIS, The Netherlands and SMEC, Bangladesh)

From January 2016 To Date

Project Director and Field Manager, National Consultant (Intermittent); Consultancy Services for the Development of an Investment Plan to support the implementation of the Bangladesh Delta Plan 2100.

Responsibility: Support the Team Leader to manage interaction with the Client, lead the three firms of the consortium, and ensure that all parts of the team work together to deliver high-quality outputs on schedule. Contribute in formulating the Investment Plan and coordinate among the professionals & Manage day- to-day relations and operations in Bangladesh.

From April 2015 To Sept 2015

Individual Consultant (Intermittent), Water Resources Planning Specialist, National Consultant; Consultancy services for Monitoring & Evaluation in BWDB Schemes" (M & E Consultant). Water Management Improvement Project WMIP.

Responsibility: Review of the Mid-Term Review Report of Water Management Improvement Project WMIP. Contribute in writing the Final Monitoring and Evaluation Report of WMIP Project. Review the Draft Final M&E Report of WMIP for fine tuning of the multidisciplinary professionals contribution to Finalize the "Final Evaluation Report (end-of-Project Evaluation Report". Contribute in preparation of Project Proposal for "Irrigation Management Improvement Program (Facility), Project Management and Design Consultant" of Improvement of Muhuri Irrigation Project IMIP under Bangladesh Water Development Board. In addition to other activities, I have prepared the Methodology for the Consultancy Services.

EMPLOYER:

IRRI Bangladesh Office, Dhaka.

From September 2014 To December 2014

Associate Short Term (AST) National Consultant, IWMI-assisted Ganges Basin Development Challenge (GBDC) Program.

Responsible for: Conduct and lead focus group discussion (FGD) in the North-Western Coastal Zone of Bangladesh (12 Polders) with key stakeholders for the Assessment and Evaluation of (G1 outputs) Recommendation domain maps of "Innovative Cropping Patterns developed by IRRI for South-West Coastal region of Bangladesh considering future scenario with respect to anticipated Climate Change" under Ganges Basin Development Challenge (GBDC) Program and preparation of report with field level stakeholder's feedback on present Practicing Patterns (major three) and Acceptance of Innovative Patterns.

EMPLOYER:

Institute of Water Modelling

From January 2014 To March 2014

Water Resources Planning Specialist; Determination of Hydro-geological parameters for SW and SE regions of Bangladesh, phase -2 (10527).

Responsibility: Was responsible for procuring historical data and support the research team in preparation of report.

From April 2014 To June 2014

Consultant; "CPWF: Assessment of Impacts of Anticipated External Drivers of Change on Water Resources of the Coastal Zone (P51340)".

Responsibility: Was responsible for contributing in determining / identifying external drivers of change on water resources of the coastal zone of Bangladesh and assessment of their impacts considering future scenario with respect to Climate Change.

From Mar.2013 To March 2014

Senior Water Resources Planning Specialist/ Team Leader; Technical Prefeasibility Study to restore the environment of the Kaptai Lake in the Rangamati

Hill District.

Responsibility: Analysis and interpretation of historical data and surveyed data, design pilot channel for dredging, development of options for 1D-2D models, analyze model results and assess the impact of pilot channel in terms of siltation; comparison of alternatives to find out the suitable solution, preparation of pre-feasibility report for restoration of Environment in the Kaptai lake area and maintain liaison with BWDB.

Organized and conducted stakeholder consultation in the office of the Deputy Commissioner, Rangamati, chaired by the Deputy Commissioner Rangamati with a wide range of participation from local administration, representatives of GoB Departments and Agencies, NGOs working in the area, LGIs and Elites to finalize and enrich the Feasibility Report incorporating their valued opinion / suggestions / experiences.

EMPLOYER:

The World Bank, Environment
Water and Climate Unit

From Sept 30, 2012 To June 30, 2013

Consultant; Bangladesh Hydro-met Technical Study funded by the World Bank.

Responsibility: Was responsible to prepare a note on (1) Institutional and Organizational issues and inventory related to Hydro-met in Bangladesh & (2) Strength and Weaknesses of past approaches to flood Forecasting and Warning in Bangladesh.

From Jan 31, 2012 To June 30 2012

Consultant; Bangladesh Hydro-met Technical Study

Responsibility: Was responsible for prepare report on (1) Organizational assessment of key agencies involved in operation and maintenance of hydromet monitoring networks & (2) Preparation of Inventory of hydromet monitoring stations and weather network (3) assessment of data monitoring, transmission, processing, sharing and dissemination systems.

EMPLOYER:

Institute of Water Modelling

From July 2011 To June 2014

Principal Investigator / Participatory Water Resources Management Specialist; Ganges Basin Development Challenge Program: G3 "Water Governance and Community-Based Management" for increasing the Resilience of Agricultural and Aquaculture systems in the Coastal Areas of Ganges Delta in Bangladesh.

Responsibility: Was responsible for reviewing of literature, supervise local research students and support local activities in preparation of baseline GIS maps, inventory and condition of drainage sluices & structures, land inundation map with land type (F0, F1, F2, F3 etc.), participatory resource mapping, GIS map showing Mouza area, Mouza population & Population density for 5 BWDB polders and 4 LGED subprojects.

Prepared literature review reports on (1) Review of Policies on Water Governance and Community based Water Management of the South-West Coastal Area of Bangladesh (2) Review of Policies in water sector and related sectors that relate to Integrated Coastal Zone Management.

From June 2011 To December 2013

Senior Water Resources Planning Specialist; Mathematical Modelling Study (Groundwater & Surface Water) to assess Upazila-wise Surface Water & Groundwater Resources and Changes in Groundwater Level due to Withdrawal of Groundwater.

Responsibility: Contribute, guide and support the working team in developing surface water and groundwater models in two pilot areas of the coastal belt of Bangladesh along with impact assessment of different scenarios due to climate change. One pilot area lying in Barisal region is characterized by withdrawal of groundwater for agricultural and domestic purposes. Another pilot area covering south Chittagong is characterized by withdrawal of groundwater for industrial and domestic purposes. Responsible for the coordination of all study activities. Making liaison with BWDB for project purposes.

From June 2011 To December 2013

Senior Water Resources Planning Specialist; Mathematical Modelling Study on

Saline Water Intrusion for Establishment of Monitoring Network and to Assess salinity intrusion, Salinity Level, Sea Level Rise due to Climate Change, Movement of Salinity Area & Development of management Information System (MIS)

Responsibility: Was responsible to contribute, guide and support the working team in Mathematical Modelling Study on Saline Water Intrusion for Establishment of Monitoring Network and to Assess salinity intrusion, Salinity Level, Sea Level Rise due to Climate Change, Movement of Salinity Area & Development of management Information System (MIS)

From June 2011 To December 2013

Senior Water Resources Planning Specialist; Hydrogeological Study & Mathematical Modelling to identify sites for Installation of Observation Well Nests, Selection of Model Boundary, Supervision of Pumping Test, Slug test, Assessment of Different Hydrogeological Parameters, Collection & Conduct Chemical Analysis of SW & GW.

Responsibility: Was responsible to contribute, guide and support to identify sites for Installation of Observation Well Nests, Selection of Model Boundary, Supervision of Pumping Test, Slug test, Assessment of Different Hydrogeological Parameters, Collection & Conduct Chemical Analysis of SW & GW.

During my continuous service in the Institute of Water Modelling as a Senior Water Resources Specialist, I had been involved in many projects (not elaborated) those required my expertise as and when desired by the Institute, even I had to contribute in Business Development and Liaison with potential Clients for the greater interest of appointing Institution.

EMPLOYER:

Bangladesh Water Development Board

From May 1977 To December 2010

Assistant Engineer, Sub divisional Engineer, Executive Engineer, Superintending Engineer, Project Director, Additional Chief Engineer, Chief Engineer

From August 2008 To December 2010

Chief Engineer, Hydrology, was "Supervision and technical guidance of different activities oh Hydrology unit of BWDB, all over Bangladesh" while performed the following:

Supervised and provided technical guidance for the following activities:

- a) Hydrological research, benchmark surveys and evaluation and other studies required by BWDB,
- b) Sub-soil and groundwater investigation and compilation of data for use of BWDB and other agencies.
- c) Qualitative studies for optimum utilization of ground water and development of guidelines for preparing hydrological and hydro-chemical reports.
- d) Monitoring ground water recharge and change in surface and ground water quality and the provision of timely information on these matters to relevant agencies of the government.
- e) Monitoring changes in morphological behavior in priority areas and its impact on erosion and bank stabilization.
- f) Field hydrological data collection and quality control.
- g) Collection, processing, storing, publishing and making available data relating to floods, surface and ground water, river morphology, salinity, sedimentation, water quality and soil characteristics.
- h) Necessary support to WARPO for the development and maintenance of the National Water Resources Data Base (NWRD).
- i) Standardization and improvement of hydrological data (ground water table, aquifer test, ground water quality, exploratory boring, bore log) collection.
- j) Institutional development and capacity building in hydrology through training and development of specialists in field measurements, processing and data analysis.
- k) Provided critical insight on drought and flood conditions and review of technical reports on surface and ground water utilization.
- l) Development of modern flood forecasting and warning system and provision of

- m) early warning for flood and other information.
m) Provision of response to newspaper reports on flood, drought and other hydrological phenomenon.

From May 2008 To July 2008

Chief Engineer & Project Director, Coastal Embankment Rehabilitation Project,
Responsibility: Main assignment was "Water Resources Management, Project planning, Feasibility studies, Program monitoring of Projects" while performed the following:

Integrated Participatory Planning, O & M Studies, Monitoring and Evaluation. Also Program Monitoring of "Small Scale Flood Control, Drainage and Irrigation project Ph-II".

From March 2004 To August 2008

Superintending Engineer, Dte. of Planning III, BWDB and Project Director, Integrated Planning for Sustainable Water Management (IPSWAM) & Small Scale Flood Control, Drainage and Irrigation project Ph-III,

Responsibility: Main Assignment was "Planning, monitoring of implementation of small and medium size FCDI projects all over the country with special reference to South-West region", while performed the following:

Water Resources Management Project planning, Feasibility studies, Program monitoring of Bilateral Projects. As Project Director, Integrated Planning for Sustainable Water Management (IPSWAM), Integrated Participatory Planning, O & M Studies, Monitoring and Evaluation. Liaison with foreign development partners regarding project planning and implementation. Maintained liaison with NGO and local communities for ensuring peoples participation in water resources management.

The IPSWAM project was innovative and experimental in nature to operationalize the National Water Policy and Guidelines for Peoples Participation for ensuring peoples participation in whole project cycle. Considering extra ordinary performance the Board has selected as the best Project Director for the year 2007-08; and the Ambassador of the Royal Netherlands Embassy, Dhaka (Development Partner) also recognized this with a letter of appreciation for extraordinary performance in IPSWAM Project.

Water Resources Management Project planning, Feasibility studies, Program monitoring as Project Director of "Small Scale Flood Control, Drainage and Irrigation project Ph-III".

From February 2001 To January 2004

Executive Engineer, Planning III, BWDB

Responsibility: Main assignment was "Project planning, Feasibility studies, Program monitoring", while performed the following:

Project planning and feasibility study for IPSWAM projects in the south-western Coastal Zone of Bangladesh.

From September 1997 To February 2001

Executive Engineer, Mapping Cell, BWDB, Dhaka

Responsibility: Main assignment was "Supervision and management hydro-morphological data collection and survey for rivers of all over Bangladesh and development of the morphological data base", while performed the following:
Conducting, supervising and management of Topographic and Hydro-morphological data collection, analysis & research for the Bangladesh River system. Photogrammetric Mapping with Planicomp P33 and O & M of mapping equipment.

From 1999 to March 2002: dedicated work for development of morphological database at IWM (part time basis) to provide expatriate input.

From February 1995 To August 1997

Executive Engineer, South-western Measurement Division, BWDB, Faridpur

Responsibility: Main assignment was "Conducting, supervising and management of Hydrological data collection, analysis and research for the south Western Region of Bangladesh", while performed the following:

Conducting, supervising and management of Hydrological data collection, analysis and research for the south Western Region of Bangladesh.

From December 1990 To January 1995

Executive Engineer, Morphology Division, BWDB, Mymensingh

Main assignment was "Morphological data collection, analysis & research", while performed the following:

Conducting, supervising and management of Morphological Data collection, analysis and research for major rivers viz. Jamuna, Meghna, and other rivers of the North-Eastern, Central and Southern Bangladesh.

From July 1983 To November 1990

Sub-Divisional Engineer Land Reclamation Project.

Responsibility: conducted Estuarine survey in the Meghna estuary and the shallow bay of Bengal in the active delta region of Bangladesh; planning and implementation of land reclamation sub-projects like polder & dam construction.

From June 1979 To June 1983

Sub-Divisional Engineer at Sunamgonj and Chunarughat implemented FCDI projects, river management projects, haor development and management projects.

From July 1977 To May 1979

Attached to Executive Engineer Noakhali division & Superintending Engineer Chittagong and performed with various assignments in connecting with land reclamation FCDI Projects.

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:

- April 2017 To Date ; Adviser, Water Resources; Various assignments of EPC
- May 2016To March 2017; Research Uptake Specialist; Research Uptake Specialist (Consultant); a specialist in research uptake and communication and will be a member of BCAS HI-AWARE team with whom (s)he will regularly liaise.
- January 2016 To Date; Project Director and Field Manager, National Consultant (Intermittent); Consultancy Services for the Development of an Investment Plan to support the implementation of the Bangladesh Delta Plan 2100.
- 2015 To Sept 2015; Individual Consultant (Intermittent), Water Resources Planning Specialist, National Consultant; Consultancy services for Monitoring & Evaluation in BWDB Schemes" (M & E Consultant). Water Management Improvement Project WMIP.
- September 2014 To December 2014; Associate Short Term (AST) National Consultant, IWMI-assisted Ganges Basin Development Challenge (GBDC) Program.
- January 2014 To March 2014; Water Resources Planning Specialist; Determination of Hydro-geological parameters for SW and SE regions of Bangladesh, phase -2 (10527).
- April 2014 To June 2014; Consultant; "CPWF: Assessment of Impacts of Anticipated External Drivers of Change on Water Resources of the Coastal Zone (P51340)".
- Mar.2013 To March 2014; Senior Water Resources Planning Specialist/ Team Leader; Technical Prefeasibility Study to restore the environment of the Kaptai Lake in the Rangamati Hill District.
- Sept 30, 2012To June 30, 2013; Consultant; Bangladesh Hydro-met Technical Study funded by the World Bank.
- Jan 31, 2012 To June 30 2012; Consultant; Bangladesh Hydro-met Technical Study
- July 2011 To June 2014; Principal Investigator / Participatory Water Resources Management Specialist; Ganges Basin Development Challenge Program: G3 "Water Governance and Community-Based Management" for increasing the Resilience of Agricultural and Aquaculture systems in the Coastal Areas of Ganges Delta in Bangladesh.
- June 2011To December 2013; Senior Water Resources Planning Specialist; Mathematical Modelling Study (Groundwater & Surface Water) to assess Upazila-wise Surface Water & Groundwater Resources and Changes in Groundwater Level due to Withdrawal of Groundwater.

- June 2011 To December 2013; Senior Water Resources Planning Specialist; Mathematical Modelling Study on Saline Water Intrusion for Establishment of Monitoring Network and to Assess salinity intrusion, Salinity Level, Sea Level Rise due to Climate Change, Movement of Salinity Area & Development of management Information System (MIS)
- June 2011 To December 2013; Senior Water Resources Planning Specialist; Hydrogeological Study & Mathematical Modelling to identify sites for Installation of Observation Well Nests, Selection of Model Boundary, Supervision of Pumping Test, Slug test, Assessment of Different Hydrogeological Parameters, Collection & Conduct Chemical Analysis of SW & GW.
- August 2008 To December 2010; Chief Engineer, Hydrology, was "Supervision and technical guidance of different activities oh Hydrology unit of BWDB, all over Bangladesh" while performed the following:
- May 2008 To July 2008; Chief Engineer & Project Director, Coastal Embankment Rehabilitation Project,
- March 2004 To August 2008; Superintending Engineer, Dte. of Planning III, BWDB and Project Director, Integrated Planning for Sustainable Water Management (IPSWAM) & Small Scale Flood Control, Drainage and Irrigation project Ph-III,
- February 2001 To January 2004; Executive Engineer, Planning III, BWDB
- September 1997 To February 2001; Executive Engineer, Mapping Cell, BWDB, Dhaka
- 1999 to March 2002: dedicated work for development of morphological database at IWM (part time basis) to provide expatriate input.
- February 1995 To August 1997; Executive Engineer, South-western Measurement Division, BWDB, Faridpur
- December 1990 To January 1995; Executive Engineer, Morphology Division, BWDB, Mymensingh.
- July 1983 To November 1990; Sub-Divisional Engineer Land Reclamation Project.
- June 1979 To June 1983; Sub-Divisional Engineer at Sunamgonj and Chunarughat implemented FCDI projects, river management projects, haor development and management projects.
- July 1977 To May 1979; Attached to Executive Engineer Noakhali division & Superintending Engineer Chittagong and performed with various assignments in connecting with land reclamation FCDI Projects.

Training:

- National Workshop on Training Course on Preliminary Aids and Relief of Disaster Prone Region,BANBEIS,Dhaka,23-25 November 2009.
- Training on "Post Disaster Damage and Loss Assessment (DALA)", World Bank, Dhaka, 15-16 March, 2009.
- Training on Project Monitoring and Reporting under IFAD project at BWDB, 16-17 days, June 2002.
- Modernization of BWDB Accounts System, Dhaka, 01-06 June 2002.
- Advanced Presentation Course using MS Power Point, CEGIS,Dhaka,07-15 April,2002
- Training on GIS and CAD, Institution of Engineers, Dhaka, 5 August to 7 October 2001
- Training on Project Management, Training Directorate, Dhaka 26 October to 10 November, 1997
- On the job training on GPS at Bhagyakul Training Institute,8 to16 July 1997.
- Training on Photogrametric Equipment, Mapping Cell, Dhaka, 08-18 June 1997
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- UNIX user level training, UNDP, Dhaka,1 Month in 1995.
- Computer Programming Course, Fortran Language, BUET, Dhaka. October 1983,19 days.

Foreign

- Training Program on Low Flow, Draught and Climate Change held at Thimpo, Bhutan from 28.11.2010 to 03.12.2010.
- Workshop on Atmospheric, Storm Surge and Hydrological Modellingin Bangkok, Thailand from 7 to 9 November 2010
- Regional Training on "Climate Risk Management" Asian Disaster Preparedness Center (ADPC), Bangkok, Thailand, May 2009, 6 days
- Training course on "Multidisciplinary Participatory Planning for Sustainable Water Management", ISS, The Hague, the Netherlands, September 2005, 22 days
- Training on Environmental Management, the Netherlands, May 2000, 18 days
- Training of Photographic Mapping Systems Focus, Germany, January 1998, 10 days
- Training on Operation and Maintenance of Survey Equipments, Germany, February 1996, 5 days
- Training on Water Resources Information Systems, AIT, Bangkok, Thailand, Feb 'to Apr '95, 3 months including dedicated 15 day training on MIKE 11 Hydrodynamic Model.
- International Course on Hydraulic Engineering, IHE, Delft, The Netherlands,

12. COMPUTER SKILLS	: Proficient in basic computer software i.e. Microsoft Office, Internet Exploration, GIS, AutoCAD , 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 **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



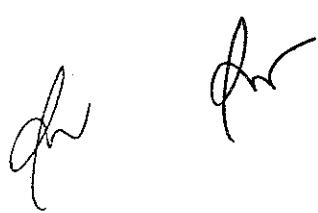
Date of Signing

05/06/2017
Day / Month / Year

CV No. 3

Modeling Engineer 1
Abdur Rahman Bhuiyan





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

Name of the Consultant	Engineering and Planning Consultants Ltd. (EPC)
RFP IDENTIFICATION NO.	CIB-S-58
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	Modeling Engineer-1			
2. NAME OF PERSON	Abdur Rahman Bhuiyan			
3. DATE OF BIRTH	1 April 1953			
4. NATIONALITY	Bangladeshi			
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	<ul style="list-style-type: none"> • Life Fellow, the Institution of Engineers, Bangladesh F-3643, 1997 • Life Member, AIT (Bangkok, Thailand) Alumni Association 			
6. EDUCATION	<ul style="list-style-type: none"> • Asian Institute of Technology (AIT), Bangkok, Thailand, M. Engineering (Water Resources Development), 1982 • Bangladesh University of Engineering & Technology (BUET), Dhaka, B.Sc. Engineering (Water Resources), 1977 			
7. OTHER TRAINING	<ul style="list-style-type: none"> • Two weeks Training on hydro-morphological survey, data collection, data processing and quality control by using DGPS, echo sounder, ADCP and RTK GPS and HydroPro survey and data processing software at Trimble Regional Centre at New Zealand in October 2001 • Two weeks training on hydro-morphological survey, data processing and maintenance of survey equipments at Hydronav Survey Equipment and Training Centre at Singapore in September 2000. • One week Training on Project Administration and Risk Management at AIT, Bangkok in 1998, • Three months Training on Project Administration and Management at Copenhagen Business College, Denmark during Feb – May 1997. • One month Training on Technical Report Writing Skills, 1994 conducted by British Council Teaching Centre, Dhaka in 1994. • One month Training on Flood Management Modelling under FAP25 project of FPCO in Dhaka in 1993. The topics included application of GIS for developing digital elevation model, interpretation of the results of mathematical modelling by flood and inundation mapping. • Four months Training on Mathematical Hydrodynamic Modelling of Rivers and Flood Plains at DHI, Denmark during March – July 1992. • Two months Training on Computation Hydraulics and Mathematical Modelling at DHI, Denmark during May – July 1989. 			
8. LANGUAGE AND DEGREE OF PROFICIENCY	Language	Speaking	Reading	Writing
	Bengali	Excellent	Excellent	Excellent
	English	Excellent	Excellent	Excellent
9. COUNTRIES OF WORK EXPERIENCE	Bangladesh			
10. EMPLOYMENT RECORD				
EMPLOYER:	FROM OCTOBER 2014 TO DATE			
Engineering and Planning Consultants Ltd.	<p>FROM DECEMBER 2016 TO DATE</p> <p>Advisor on Hydro-morphological Modeling, Guide the hydro-morphological team with the data and information on hydro-morphological modeling.</p>			

FROM OCTOBER 2016 TO NOVEMBER 2016

Morphologist/ Hydraulic Engineering Specialist/ Hydraulic Modeler, Consultancy Services for Hydrological and Morphological Study and Environmental Impact Assessment (EIA) for Construction of 120.00m Long RCC Bridge on Achintapur UP H/Q – Bhalukpur Bazar Road over Jalburunga River under Gouripur Upazila, Dist. Mymensingh.

Responsible for:

- 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;
- Carry out mathematical modeling;
- Attend meeting as and when required by the designated representative of LGED.

From October 2014 To September 2016

Adviser, Water Resources Projects, hydrological study, modeling, data base, collection of data and reports.

Responsibilities include:

Provide advisory services to ongoing projects of the firm, collection of data and documents and reports, impart training to junior engineers for modeling; coordination and liaison with clients.

EMPLOYER:

Mott MacDonald

From April 2015 To August 2015 (intermittent 4 months)

National Hydrologist, Three Major irrigation and flood management projects of BWDB, namely Muhuri, Ganges Kobadak and Teesta Barrage Project.

Responsibilities include:

Coordinating collection of hydrological and environmental data from relevant government agencies, processing and analyzing of the same to estimate Water Balance and irrigation requirements.

From Nov 2013 To April 2014 (1 month intermittent)

Hydrologist for Sustainable withdrawal of water for supply in the Greater Dhaka from the Meghna River at Bishnondhi (20km u/s of Meghna Bridge)

Responsibilities include:

Collection and review of observed and generated data on highest flood level during memorable floods in the area, correlation of the observed flood level with the local information (collected at sites) and establishment of the hydrological parameters for the intake and the key installations including the pump house and treatment plant etc.

EMPLOYER:

Asian Development Bank
(ADB)

From 12 Dec 2012 To 31 Mar 2013 (intermittent 30 WD)

Individual Consultant for Preparation PCR for the bank protection of the rivers around MDIP and PIRD projects at vulnerable locations, ADB Project No. 1941 BAN (SF)

Responsibilities include:

The project commenced on 12 December 2012. The scope of study comprised eighteen components of works. Out of those the briefs of the important ones are: (i) review all relevant documents and reports pertaining to the project. (ii) Study and analyse the project targets and achievements (both physical and financial) as compared to that at project appraisal; (iii) Assess the adequacy of the project design to achieve the desired goal and objectives in accordance to physical and social development targets; (iv) Review the project implementation schedule and identify the implementation delays and likely impact of the same on cost, quality and efficiency; (v) Review the project cost estimate at appraisal and actual completion and identify reasons for cost overrun or savings; (vi) Assess the performance of the borrowers, Executing Agencies, partner NGOs and ADB including problems encountered and the corrective measures in compliance with the loan covenants; (viii) Interview with the beneficiaries, stakeholders and WMCA and assess the project benefits in terms of EIRR/ FIRR etc.

EMPLOYER:
Design Planning &
Management Consultants Ltd

From Sep 2010 To August 2012

Deputy Team Leader/ Team Leader for Feasibility Study for West Gopalganj Integrated Water Resources Management Project.

Responsibilities include:

Overall execution of the feasibility study including analysis and assessment of the relevant data on land topography, river cross sections and morphology, water resources potential, formulation of various development options for mathematical modelling study, assessment of model results and technical backstopping and coordination of the works of relevant teams of different study components, interaction with the client, stake holder consultations and preparation of the interims and the Final Feasibility Report.

EMPLOYER:
Bangladesh Water
Development Board (BWDB)

From Dec 2007 To March 2010

Project Director for Emergency Disaster Damage Rehabilitation Project

Responsibilities include:

Implementing the entire project through coordinated efforts of a group of consultants in the Project Monitoring Office (PMO) and the field offices of BWDB. The activities also included preparation of the Development Project Proforma (DPP) on the basis of the damage assessment reports of the consultants, getting technical and financial approval from the development partners (ADB, JICA and GON) and the relevant Government agencies, preparation of the annual budgets (ADP), arranging for fund release and disbursement, approval of the tender documents and work orders for execution of the project split in 400 – 500 packages, progress monitoring and overall quality control of the project.

From April 2007 To December 2007

Additional Director Bhagyakul Training Institute, also engaged for assessment of emergency flood damage rehabilitation-2007

Responsibilities include:

Organising and conducting training for different professional groups of BWDB and other organisations at Bhagyakul Training Institute, BWDB. Among others execution of a two month's training to a group of BIWTA professionals on river cross section/ bathymetric survey using GPS, DGPS, RTKGPS, Echo-sounder, ADCP & Total Station etc. Using relevant software for data collection, processing and quality control was well reputed both in BWDB and BIWTA.

During the same period the under signed was also given additional responsibility for monitoring the emergency flood fighting measures in the areas of greater Dhaka and Mymensingh districts during the ongoing flood of monsoon 2007. An excellent report was prepared and submitted to the board to undertake the next course of actions.

EMPLOYER:
Institute of Water Modelling
(IWM)

From Feb 2006 To April 2007

Principle Specialist and Division Head, Survey & Data Division

Responsibilities include:

As senior member of the team executed various components of works relevant with mathematical modelling studies, planning, organising, technical back stopping and quality control of the field surveys by using GPS, DGPS, RTKGPS, Echo-sounder, ADCP & Total Station etc. Assessment and quality control of the field survey data, preparation of reports, interacting with the client.

From Sep 2005 To February 2006

Principle Specialist and Division Head, River Engineering Division

Responsibilities include:

Conducting mathematical modelling studies for morphological assessment and establishment of design criteria for bank protection works at vulnerable locations along the major rivers of Bangladesh. The task also includes preparation of reports on the basis of study findings.

From Aug 1999 To Sep 2005

Principle Specialist and Division Head, Survey & Data

Responsibilities include:

conducting field surveys for mathematical modelling studies for assessment of the impact of different development options for the above mentioned protective work. Major activities included planning, organising, technical back stopping and quality control of the field surveys by using GPS, DGPS, RTKGPS, Echo-sounder, AD CP & Total Station etc. The tasks also included Preparation of reports, interacting with the client.

From May 1997 To Sep 1999

Principle Specialist and Division Head, River Hydraulics Division

Responsibilities include:

Assessment of the impacts of various development interventions on the rivers and flood plains by applying mathematical models and hydro-morphological studies. Also, responsible for updating, validation and maintenance of the hydrodynamic models for the regional and national rivers of Bangladesh.

The tasks also include interaction with the experts and clients of national and international level preparation of reports on the basis of study findings.

EMPLOYER:

Bangladesh Water
Development Board (BWDB)

From May 1994 To May 1997

Executive Engineer and Head, Hydrology & Hydrodynamic Division of Surface Water Simulation Project Phase-III

Responsibilities include:

organising, quality supervision and professional backstopping in the development and updating of the hydrodynamic models for the North East including the haor areas, South East, South West, North West and the Chittagong Hill Tracts and major rivers of Bangladesh. Development of various application models for comprehensive flood and drainage management including erosion and siltation to assess the performance of MIKE-11 model was also conducted during this period. The tasks also include interaction with the experts and clients of national and international level preparation of reports.

From March 1992 To May 1994

Executive Engineer and Group Leader, South East (SE) Region Model

Responsibilities include:

Updating and validation of the mathematical hydrodynamic model for the South East Region of Bangladesh. The task also included field surveys for hydrological data collection, discharge measurements in the rivers of the tidal and non-tidal areas, river cross section measurements, sediment data collection including processing and quality assessment of the data by applying relevant programmes and software. The tasks also include interaction with the experts and clients of national and international level preparation of reports.

From Feb 1987 To March 1992

Sub-Divisional Engineer and Model Engineer, South East Region Model Group

Responsibilities include:

Development, calibration and verification of the regional pilot model. Also responsible for planning and monitoring of the field surveys for development of the regional models, quality assessment of the data by using internally developed computer programmes and international level preparation of reports.

From May 1982 To Feb 1987

Sub Divisional Engineer

Responsibilities include:

the design of hydraulic structures, regulators, syphons and canals for different projects and schemes to provide food and livelihood security to the people by boosting agriculture production through improved drainage irrigation and flood control facilities.

From September 1980 To May 1982

Assistant Engineer, Assistant Engineer deputed for higher studies abroad

Responsibilities include:

Pursued M. Eng degree

From July 1979 To September 1980
Assistant Engineer, Routine design works of Bangladesh Water Development Board.
Responsibilities include:
 The design of hydraulic structures, regulators, siphons and canals for different projects and schemes to provide food and livelihood security to the people by boosting agriculture production through improved drainage irrigation and flood control facilities

From June 1977 To July 1979
Assistant Engineer, Assistant Engineer Bangladesh Water Development Board
Responsibilities include:
 The design of hydraulic structures, regulators, siphons and canals for different projects and schemes to provide food and livelihood security to the people by boosting agriculture production through improved drainage irrigation and flood control facilities.

EMPLOYER:
 Associate Consulting Engineers (ACE) Ltd.

From March 1977 To June 1977
Junior Engineer, Monu River Project.
Responsibilities include:

Establishment of the alignments of the irrigation canals, monitoring of field survey activities relating to land topography, supervision and quality control of the ongoing construction of the flood embankments, regulators and siphones and monitoring of the flush flood in Kushiara and Monu during the period.

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:

- **Advisor on Hydro-morphological Modeling** of Engineering and Planning Consultants Ltd. (December 2016 To Date)
- **Morphologist/ Hydraulic Engineering Specialist/ Hydraulic Modeler**, Consultancy Services for Hydrological and Morphological Study and Environmental Impact Assessment (EIA) for Construction of 100.00m Long RCC Bridge on Achintapur UP H/Q – Bhalukapur Bazar Road over Jalburunga River under Gouripur Upazila, Dist. Mymensingh October 2016 To November 2016).
- **Adviser**, Water Resources Projects, hydrological study, modeling, data base, collection of data and reports. (Oct 2014 To September 2016)
- **National Hydrologist**, Three Major irrigation and flood management projects of BWDB, namely Muhuri, Ganges Kobadak and Teesta Barrage Project. (April 2015 To August 2015)
- **Hydrologist** for Sustainable withdrawal of water for supply in the Greater Dhaka from the Meghna River at Bishnondhi (20km u/s of Meghna Bridge); Nov 2013 To April 2014
- Individual Consultant for Preparation PCR for the bank protection of the rivers around MDIP and PIRDP projects at vulnerable locations, ADB Project No. 1941 BAN (SF); 12 Dec 2012 To 31 Mar 2013
- **Deputy Team Leader/ Team Leader** for Feasibility Study for West Gopalganj Integrated Water Resources Management Project; Sep 2010 To August 2012
- **Project Director** for Emergency Disaster Damage Rehabilitation Project; Dec 2007 To March 2010
- **Additional Director**, Bhagyakul Training Institute, also engaged for assessment of emergency flood damage rehabilitation-2007; April 2007 To December 2007
- **Principle Specialist and Division Head**, Survey & Data Division; Feb 2006 To April 2007
- **Principle Specialist and Division Head**, River Engineering Division; Sep 2005 To February 2006
- **Principle Specialist and Division Head**, Survey & Data; Aug 1999 To Sep 2005
- **Principle Specialist and Division Head**, River Hydraulics Division; May 1997 To Sep 1999
- **Executive Engineer and Head**, Hydrology & Hydrodynamic Division of Surface Water Simulation Project Phase-III; May 1994 To May 1997
- **Executive Engineer and Group Leader**, South East (SE) Region Model; March 1992 To May 1994
- **Sub-Divisional Engineer and Model Engineer**, South East Region Model Group; Feb 1987 To March 1992
- **Sub Divisional Engineer**; May 1982 To Feb 1987
- **Assistant Engineer**, Assistant Engineer deputed for higher studies abroad; September 1980 To May 1982
- **Assistant Engineer**, Routine design works of Bangladesh Water Development; July 1979 To September 1980
- **Assistant Engineer**, Assistant Engineer Bangladesh Water Development Board; June 1977 To July 1979
- **Junior Engineer**, Monu River Project.; March 1977 To June 1977

Training:

- Two weeks Training on hydro-morphological survey, data collection, data processing and quality control by using DGPS, echo sounder, ADCP and RTK GPS and HydroPro survey and data processing software at Trimble Regional Centre at

New Zealand in October 2001

- Two weeks training on hydro-morphological survey, data processing and maintenance of survey equipments at Hydronav Survey Equipment and Training Centre at Singapore in September 2000.
- One month Training on Technical Report Writing Skills, 1994 conducted by British Council Teaching Centre, Dhaka in 1994.
- One month Training on Flood Management Modelling under FAP25 project of FPCO in Dhaka in 1993. The topics included application of GIS for developing digital elevation model, interpretation of the results of mathematical modelling by flood and inundation mapping.
- Four months Training on Mathematical Hydrodynamic Modelling of Rivers and Flood Plains at DHI, Denmark during March – July 1992.
- Two months Training on Computation Hydraulics and Mathematical Modelling at DHI, Denmark during May – July 1989.

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

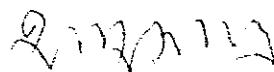
I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I also understand that any 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

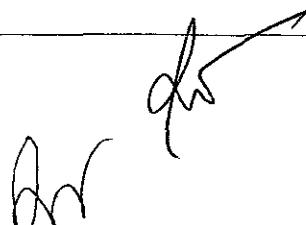
Signature



Date of Signing

10/06/2017

Day / Month / Year



CV No. 4

Modeling Engineer 2
Muhammad Motiur Rahman






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-58
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	: Modeling Engineer-2												
2. NAME OF PERSON	: Muhammad Motiur Rahman												
3. DATE OF BIRTH	: February 16, 1981												
4. NATIONALITY	: Bangladeshi												
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	: • Life Member, Institution of Engineers, Bangladesh												
6. EDUCATION	: • B.Sc. in Water Resources Engineering, Bangladesh University of Engineering and Technology (BUET), 2005												
7. OTHER TRAINING	: • Training on Arc-View at BUET in 2004 • Training on Autodesk Civil3D both in general and advanced Level in 2008 • Special Course on "River Bank Protection" at BUET Jointly organized by ADB and BUET in 2010												
8. LANGUAGE AND DEGREE OF PROFICIENCY	: <table style="width: 100%;"><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>Excellent</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	Excellent	Excellent	Excellent	English	Excellent	Excellent	Excellent
<u>Language</u>	<u>Speaking</u>	<u>Reading</u>	<u>Writing</u>										
Bengali	Excellent	Excellent	Excellent										
English	Excellent	Excellent	Excellent										
9. COUNTRIES OF WORK EXPERIENCE	: Bangladesh												
10. EMPLOYMENT RECORD	: <table style="width: 100%;"> <tr> <td>EMPLOYER: Strategic Planning and Management Consultants Ltd (SPMC)</td> <td>From Apr 2016 to Date Modeling Engineer, Responsible for: • Modeling in Brahmaputra River. • Providing training regarding Modeling.</td> </tr> <tr> <td>EMPLOYER: Resource Planning and Management Consultants (Pvt) Ltd under FRERMIP : Working Area : Jamuna River</td> <td>From September 2015 to Mar 2016 River Engineer, Flood and Riverbank Erosion Risk Management Investment Program Responsibilities includes: • Assist international River Engineer to accomplish the tasks; • Assist PMO for revising and updating structural design for Tranche-1; • Assist PMO for preparing technical specifications for bid documents; • Lead asset inventories; • Assist formulating participatory O&M programs for flood embankments and riverbank revetments • Reviewed all the past study reports, data, detailed design and information on the corresponding rivers. • Worked closely with the Consultants. • Prepare technical note on Chandpur confluence.</td> </tr> <tr> <td colspan="2"></td> </tr> <tr> <td colspan="2">From November 2013 to September 2015 Data Analyst - Hydrology & Hydraulic Data, Riverbank Improvement Program (RBIP), BWDB. Responsibilities includes: • Analysis of river morphological data for, Hydrological Data for Jamuna river and other rivers in north west region, • Analysis of river bank line shifting trend, Processing river bathymetry data,</td> </tr> </table>	EMPLOYER: Strategic Planning and Management Consultants Ltd (SPMC)	From Apr 2016 to Date Modeling Engineer, Responsible for: • Modeling in Brahmaputra River. • Providing training regarding Modeling.	EMPLOYER: Resource Planning and Management Consultants (Pvt) Ltd under FRERMIP : Working Area : Jamuna River	From September 2015 to Mar 2016 River Engineer, Flood and Riverbank Erosion Risk Management Investment Program Responsibilities includes: • Assist international River Engineer to accomplish the tasks; • Assist PMO for revising and updating structural design for Tranche-1; • Assist PMO for preparing technical specifications for bid documents; • Lead asset inventories; • Assist formulating participatory O&M programs for flood embankments and riverbank revetments • Reviewed all the past study reports, data, detailed design and information on the corresponding rivers. • Worked closely with the Consultants. • Prepare technical note on Chandpur confluence.			From November 2013 to September 2015 Data Analyst - Hydrology & Hydraulic Data, Riverbank Improvement Program (RBIP), BWDB. Responsibilities includes: • Analysis of river morphological data for, Hydrological Data for Jamuna river and other rivers in north west region, • Analysis of river bank line shifting trend, Processing river bathymetry data,					
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- Preparation of numerical model setup data for model development;
- Analysis of scour adjacent to bank protection structures along Jamuna;
- Fixation of proposed embankment alignment according to alignment fixation criteria. Management of technical drawings.
- Assist international River Engineer to accomplish the tasks;
- Assist PMO for revising and updating design of RTW;
- Assist PMO for preparing technical specifications for bid documents;
- Lead asset inventories;
- Assist formulating participatory O&M programs for flood embankments and riverbank revetments.
- Execute value Engineering of RTW

EMPLOYER:
Northwest Hydraulic Consultants Ltd (nhc) under proposed FRERMIP: Working Area: Jamuna River

: From December 2012 to March 2013
Flow Model Specialist, Proposed Flood and River Bank Erosion Risk Management Investment Program.

Responsibilities includes:

- Develop a hydrodynamic model in HEC RAS for Jamuna River covering a reach of 70 km from downstream of Jamuna Bridge to the confluence of Ganges and Jamuna,
- Simulation of model for existing condition,
- future narrowing condition and single channel condition,
- Estimate sediment concentration,
- Analysis of water level, velocity, flow percentage in main channel & floodplain and sediment concentration.
- Calculated scour depths at new-bridge pier locations for foundation designs
- Prepared Reports, Technical Specifications and BoQs of RTWs
- Executed value Engineering of RTW

EMPLOYER:
Jurutera Perunding Zaaba Sdn. Bhd. (JPZ):
EMPLOYER:
Survey 2000 Ltd:

: From June 2012 to October 2013
Hydraulic Engineer. Working Area: Rivers around Dhaka city

: From November 2011 to March 2012
Morphologist. Developing a Hydrodynamic model

EMPLOYER:
ACE Consultants Ltd: Working Area: RTW, Detail Design of Padma Multipurpose Bridge Project

: From May 2009 to July 2011
Riverbank Protection & River Response Specialist, Detailed Design of Padma Multipurpose Bridge Project, BBA.

Responsibilities includes:

- Was responsible for topographic, bathymetric and ADCP survey conducted by subcontractor and ensuring quality of survey data;
- Collecting historical survey data from different organizations of Bangladesh;
- Processing survey data and producing maps in Surfer and Civil3D;
- Systematic storage of survey data and updating database;
- Supervision of Geotechnical investigation of North bank and South bank of Padma River;
- Analyzing Hydrological and Morphological data to identify changes in river plan form and scour pattern;
- Monitoring and analyzing the scour pattern and failure mechanism of major river training structures of Bangladesh;
- Comparing scour magnitude with time series and different type of structures;
- Analysis of bank line movement from historical satellite image.
- Preparing model input data for Numerical model study team of HR Wallingford and Institute of Water Modeling (IWM);
- Accompanying supervision team of comprehensive physical model at River Research Institute (RRI);
- Processing and analysis of physical model data and predict scour pattern and magnitude for different plan form and alternatives of Padma River Training Works;
- Train up RRI officials on processing and analysis of model data;
- Estimating volumes of construction materials for RTW;
- Identify constraints of procurement of construction materials; assessment of

<p>EMPLOYER: Resource Planning and Management Consultants (Pvt) Ltd under JMRERMP: Working Area : Brahmaputra River</p> <p>EMPLOYER: Institute of Water and Flood Management (IWFM), BUET</p> <p>11. WORK UNDERTAKEN THAT BEST ILLUSTRATES CAPABILITY TO HANDLE THIS ASSIGNMENT:</p> <p>Outline of Experience and training most pertinent to the tasks on this assignment, with degree of responsibility held:</p> <p>Experience:</p> <ul style="list-style-type: none"> • <i>Apr 2016 to Date</i>; Modeling Engineer of Strategic Planning and Management Consultants Ltd (SPMC) • <i>September 2015 to March 2016</i>; River Engineer, Flood and Riverbank Erosion Risk Management Investment Program. • <i>November 2013 to September 2015</i>; Data Analyst - Hydrology & Hydraulic Data, Riverbank Improvement Program (RBIP). • <i>December 2012 to March 2013</i>; Flow Model Specialist, Proposed Flood and River bank Erosion Risk Management Investment. Program. • <i>June 2012 to October 2013 (12 months intermittently)</i>, Hydraulic Engineer, Working Area: Rivers around Dhaka city • <i>November 2011 to March 2012</i>; Morphologist, Working Area: Developing a Hydrodynamic model • <i>May 2009 to July 2011</i>, Riverbank Protection & River Response Specialist, Detailed Design of Padma Multipurpose Bridge Project. • <i>November 2006 to January 2009</i>; River Morphological Data Analyst, ADB-assisted Jamuna Meghna River Erosion Mitigation Project. • <i>July 2005 to October 2006</i>; Research Assistant, Institute of Water and Flood Management (IWFM) <p>Training:</p> <ul style="list-style-type: none"> • Training on Arc-View at BUET in 2004 • Training on Autodesk Civil3D both in general and advanced Level in 2008 • Special Course on "River Bank Protection" at BUET Jointly organized by ADB and BUET in 2010 <p>12. COMPUTER SKILLS</p> <ul style="list-style-type: none"> • Water Modeling Packages: HEC HMS, HEC RAS, River 2D and Delft 3D; • Programming Languages: C, C++, Fortran and MATLAB; • General: Microsoft Excel, Microsoft Word, Microsoft Power Point; • Primary Knowledge on ARC GIS, Surfer. 	

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 **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



Date of Signing

01/06/2017

Day / Month / Year



CV No. 5

Morphologist

Ekramul Hoque Sarder





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-58		
Name of the Client	Local Government Engineering Department (LGED)		
1. PROPOSED POSITION FOR THIS PROJECT	Morphologist		
2. NAME OF PERSON	EKRAMUL HOQUE SARDER		
3. DATE OF BIRTH	01 July, 1955		
4. NATIONALITY	Bangladeshi		
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	<ul style="list-style-type: none"> • Fellow Member, Institution of Engineers (F- 11475), Bangladesh. 		
6. EDUCATION	<ul style="list-style-type: none"> • B.Sc. Engineer (Civil) Rajshahi Engineering Collage, 1981 (Held in 1983) 		
7. OTHER TRAINING	<ul style="list-style-type: none"> • Design of Small scale water Control structures by Northwest Hydraulic Consultants Ltd. duration of period July/ 05 to July/14, 1992 • Local Training Program on Hydrology Period, June/01 to June/05, 2008 SW processing Branch, Hydrology, BWDB in Association with PNJ Associates. • In House Training Program on Hydrology, duration, 5 days from March/15 to March/19, 2009 SW processing Branch, Hydrology, BWDB in association with PNJ Associates. • Procurement Management Information System (PRCMIS) sponsored by Central Procurement Unit, IMED, Ministry of Planning, April/06 to April /07 2011 Dhaka. • PPR- 2008 Sponsored by Central Procurement Unit, IMED, Ministry of Planning, April/04 to April /25 2012. Held in E.S.C. at Munshigong. 		
8. LANGUAGE AND DEGREE OF PROFICIENCY	Language	Speaking	Reading
	Bengali	Good	Good
	English	Good	Good
9. COUNTRIES OF WORK EXPERIENCE	Bangladesh		
10. EMPLOYMENT RECORD			
EMPLOYER: Strategic Planning and Management Consultants Ltd (SPMC)	<p>From Sep 2015 to Till date Morphologist Detail Morphological Study on Brahmaputra River. Responsible for: Duties involved survey; Collection, Analyze and Interpret historical data as well as surveyed data of the rivers; Carrying out hydrodynamic and morphological analysis; Analyze the results and establish morphological characteristics of the river and identification of eroding vulnerable area; Analysis of hydrological survey data, computation of hydraulic design parameters which include design flood level, design flow, required waterway, general scour, constriction scour, local scour, afflux and recommendation for protective work etc.</p> 		
EMPLOYER: Bangladesh Water Development Board (BWDB)	<p>From Nov 2010 to Jun 2014 Executive Engineer, South- Western Measurement, division, BWDB, Faridpur Detailed Engineering Morphological and Hydrological Survey and Discharge Measurements of different Rivers in South Western Region of Bangladesh, which are being used for the research in river morphology and hydraulics. Responsible for: Duties involved survey; Collection, Analyze and Interpret historical data as well as</p> 		

surveyed data of the rivers; Carrying out hydrodynamic and morphological analysis; Analyze the results and establish morphological characteristics of the river and identification of eroding vulnerable area; Analysis of hydrological survey data, computation of hydraulic design parameters which include design flood level, design flow, required waterway, general scour, constriction scour, local scour, afflux and recommendation for protective work etc.

EMPLOYER: Roads and Highways Department (RHD), Ministry of Communications, GOB	From Jun 2010 to Oct 2010 Hydrologist Detailed Engineering Design and Construction Supervision of Eastern Bangladesh Bridge Improvement Project (EBBIP), RHD (JICA L/A No. BD-P60) Responsible for: Duties involved survey; Collection, Analyze and Interpret historical data as well as surveyed data of the rivers; Carrying out hydrodynamic and morphological analysis; Analyze the results and establish morphological characteristics of the river and identification of eroding vulnerable area analysis of hydrological survey data, computation of hydraulic design parameters which include design flood level, design flow, required waterway, general scour, constriction scour, local scour, afflux and recommendation for protective work etc. for development of drainage system of the proposed 60 highway/road bridges under RHD.
EMPLOYER: Bangladesh Water Development Board (BWDB)	From Jul 2009 to May 2010 Executive Engineer, South- Western Measurement, division, BWDB, Faridpur Detailed Engineering Morphological and Hydrological Survey and Discharge Measurements of different Rivers in South Western Region of Bangladesh, which are being used for the research in river morphology and hydraulics. Responsible for: Duties involved survey; Collection, Analyze and Interpret historical data as well as surveyed data of the rivers; Carrying out hydrodynamic and morphological analysis; Analyze the results and establish morphological characteristics of the river and identification of eroding vulnerable area; Analysis of hydrological survey data, computation of hydraulic design parameters which include design flood level, design flow, required waterway, general scour, constriction scour, local scour, afflux and recommendation for protective work etc.
EMPLOYER: Bangladesh Water Development Board (BWDB)	From Jan 2005 to Jun 2009 Sub-Divisional Engineer, Faridpur Hydrology Sub-Division, BWDB, Faridpur. Detailed Engineering Morphological and Hydrological Survey and Discharge Measurements of Ganges (Padma) and Gorai (Modhumoti) Rivers, which are being used for the research in river morphology and hydraulics. Responsible for: Duties involved survey; Collection, Analyze and Interpret historical data as well as surveyed data of the rivers; Carrying out hydrodynamic and morphological analysis; Analyze the results and establish morphological characteristics of the river and identification of eroding vulnerable area; Analysis of hydrological survey data, computation of hydraulic design parameters which include design flood level, design flow, required waterway, general scour, constriction scour, local scour, afflux and recommendation for protective work etc.
EMPLOYER: Bangladesh Water Development Board (BWDB)	From Aug 2002 to Dec 2004 Sub-Divisional Engineer, Faridpur O&M Sub-Division, BWDB, Faridpur. Detailed Engineering Morphological and Hydrological Survey of Gorai (Modhumoti) River in addition to other works of the Sub-Division. Responsible for: Duties involved survey; Collection, Analyze and Interpret historical data as well as surveyed data of the river in addition to other works of the Sub-Division; Carrying out hydrodynamic and morphological analysis;
EMPLOYER: Bangladesh Water	From Jan 2001 to Jul 2002 Sub-Divisional Engineer, Bhanga O&M Sub-Division, BWDB, Faridpur.

Development Board (BWDB)	Detailed Engineering Morphological and Hydrological Survey of Kumar River in addition to other works of the Sub-Division. Responsible for: Duties involved survey; Collection, Analyze and Interpret historical data as well as surveyed data of the river in addition to other works of the Sub-Division; Carrying out hydrodynamic and morphological analysis;
EMPLOYER: Bangladesh Water Development Board (BWDB)	From Sep 1997 to Dec 2000 Sub-Divisional Engineer, Boalmari O&M Sub-Division, BWDB, Faridpur. Detailed Engineering Morphological and Hydrological Survey of Kumar and Gorai (Modhumoti) Rivers in addition to other works of the Sub-Division. Responsible for: Duties involved survey; Collection, Analyze and Interpret historical data as well as surveyed data of the river in addition to other works of the Sub-Division; Carrying out hydrodynamic and morphological analysis;
EMPLOYER: Bangladesh Water Development Board (BWDB)	From Jun 1994 to Aug 1997 Sub-Divisional Engineer, Mollahat O&M Sub-Division, BWDB, Bagerhat Monitoring and supervision of construction works of the Sub-Division. Responsible for: Duties involved Monitoring and supervision of construction works of the Sub-Division.
EMPLOYER: Bangladesh Water Development Board (BWDB)	From Jan 1987 to May 1994 Sub-Divisional Engineer, Southwestern Design Circle, BWDB, Jhenaidah. Detailed Engineering Design of Water Sector Infrastructures in Southwestern Region of Bangladesh under Bangladesh Water Development Board considering its Morphological and Hydrological Data. Responsible for: Duties involved Detailed Engineering Design of Water Sector Infrastructures in Southwestern Region of Bangladesh under Bangladesh Water Development Board considering its Morphological and Hydrological Data.

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: 

- From Sep 2015 to till date, Morphologist, Strategic Planning and Management Consultants Ltd (SPMC). Responsible for Collection, Analyze and Interpret historical data as well as surveyed data of the rivers; Carrying out hydrodynamic and morphological analysis; Analyze the results and establish morphological characteristics of the river and identification of eroding vulnerable area; Analysis of hydrological survey data, computation of hydraulic design parameters which include design flood level, design flow, required waterway, general scour, constriction scour, local scour, afflux and recommendation for protective work etc.
- From Nov 2010 to Jun 2014, Executive Engineer, South- Western Measurement, division, BWDB, Faridpur. Detailed Engineering Morphological and Hydrological Survey and Discharge Measurements of different Rivers in South Western Region of Bangladesh, which are being used for the research in river morphology and hydraulics.
- From Jun 2010 to Oct 2010, Hydrologist. Detailed Engineering Design and Construction Supervision of Eastern Bangladesh Bridge Improvement Project (EBBIP), RHD (JICA L/A No. BD-P60)
- From Jul 2009 to May 2010, Executive Engineer, South- Western Measurement, division, BWDB, Faridpur. Detailed Engineering Morphological and Hydrological Survey and Discharge Measurements of different Rivers in South Western Region of Bangladesh, which are being used for the research in river morphology and hydraulics.
- From Jan 2005 to Jun 2009. Sub-Divisional Engineer, Faridpur Hydrology Sub-Division, BWDB, Faridpur. Detailed Engineering Morphological and Hydrological Survey and Discharge Measurements of Ganges (Padma) and Gorai (Modhumoti) Rivers, which are being used for the research in river morphology and hydraulics.
- From Aug 2002 to Dec 2004. Sub-Divisional Engineer, Faridpur O&M Sub-Division, BWDB, Faridpur. Detailed Engineering Morphological and Hydrological Survey of Gorai (Modhumoti) River in addition to other works of the Sub-Division.
- From Jan 2001 to Jul 2002. Sub-Divisional Engineer, Bhanga O&M Sub-Division, BWDB, Faridpur. Detailed Engineering Morphological and Hydrological Survey of Kumar River in addition to other works of the Sub-Division.
- From Sep 1997 to Dec 2000. Sub-Divisional Engineer, Boalmari O&M Sub-Division, BWDB, Faridpur. Detailed

Engineering Morphological and Hydrological Survey of Kumar and Gorai (Modhumoti) Rivers in addition to other works of the Sub-Division.

Training:

- Local Training Program on Hydrology Period, June/01 to June/05, 2008 SW processing Branch, Hydrology, BWDB in Association with PNJ Associates.
- In House Training Program on Hydrology, duration, 5 days from March/15 to March/19, 2009 SW processing Branch, Hydrology, BWDB in association with PNJ Associates.

12. COMPUTER SKILLS : • Operating Systems: WINDOWS 10, MS Office Professional, Microsoft Project, etc.

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



Date of Signing

12/06/2017
Day / Month / Year

CV No. 6

**Hydraulic Engineering Specialist
Md. Didarul Alam**





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

Name of the Consultant	Engineering and Planning Consultants Ltd. (EPC)		
RFP IDENTIFICATION NO.	CIB-S-58		
Name of the Client	Local Government Engineering Department (LGED)		
1. PROPOSED POSITION FOR THIS PROJECT	Hydraulic Engineering Specialist		
2. NAME OF PERSON	Md. Didarul Alam		
3. DATE OF BIRTH	10th April, 1956		
4. NATIONALITY	Bangladeshi		
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	Member, Institution of Engineers Bangladesh Member, Bangladesh Computer society.		
6. EDUCATION	Post Graduate Diploma (Computer Science) Bangladesh Institute of Management (BIM) Dhaka.(1996) B. Sc Engg. (Water Resources) Bangladesh University of Engineering & Technology (BUET), Dhaka, 1980		
7. OTHER TRAINING	<p>Abroad: Study tour on Participatory irrigation Management in Philippines and Indonesia October 2012 Integrated Water Resources Development Management with Participatory Management including Advanced Application of Spatial Analysis Tools, AIT, Thailand, May to June 2012.</p> <p>In the Country: Senior Management Training Course, Engg. Academy, kaptai, Rangamati , March 2014 Preparation of DPP and Fund Release, BWDB Training Institute, Bhagyakul, Munshigonj, January, 2013. Training of Trainees (TOT), BWDB Training Institute, Bhagyakul, Munshigonj, Nov 2011. Computer internet Training, Engineering Academy, kaptai, Rangamati, June 2010. National Water policy and participatory water Management, BWDB Training institute, Bhagyakul, Munshigonj, August 2006. Climate change & Bangladesh, Department of Environment, BIAM, Feb-March 2006. National Training on public Procurement Management, CPTU-IMED, December 2005. Modernization of BWDB Accounting system, CIDA, August 2002. River Erosion and Bangladesh, Academy for Planning & Development, Nov 2001 Construction Management, Engineering Academy, kaptai, Rangamati, Sept 1999. Design of small scale water control structures CIDA-NHCL, March 1987. Project Planning, Preparation and Monitoring, MIWFC, February 1987.</p>		
8. LANGUAGE AND DEGREE OF PROFICIENCY	Language	Speaking	Reading
	Bengali	Excellent	Excellent
	English	Excellent	Excellent
9. COUNTRIES OF WORK EXPERIENCE	Bangladesh		
10. EMPLOYMENT RECORD			
EMPLOYER:	From January 2016 To Date		
Engineering and Planning Consultants Ltd. (EPC)	Sr. Hydraulic Engineering Responsible for:		

- Review of Hydro morphological study report of Paira Bridge (Lebukhali Bridge) over the River Paira on Barisal – Patuakhali Road (N8), Bangladesh, (KFAED-841)
- Supporting the Proposal Preparation of the Hydro morphological study & reports.

EMPLOYER:
Bangladesh Water Dev. Board
(BWDB)

From September 2014 To April 2015

Addl. Chief Engineer (Civil) & chief Training & Staff Development. BWDB

Responsible for:

- Supervise recruitment of Personnel in BWDB and maintenance of their seniority as per policy guidelines.
- Oversee undertaking of continuous review of the organizational structure and manpower position of BWDB.
- Manage, supervise and recommend development of the training institutes under BWDB.
- Oversee in service training for officers & staff of BWDB.
- Act as member of the staffing pattern committee and the staff plan implementation committee.

From Feb 2014 to Sep 2014

Superintending Engineer (Civil), Design Circle - 2 & Design circle-4, BWDB

Responsibilities include:

- Design & approved project components i.e regulators, sluices, flood control Embankments, irrigation & drainage channels, bank revetment works, closure Dam etc. Under Eastern Zone, South Eastern zone & southern zone.
- Prepare & approved schedule of Rates for the field circles.
- prepare & submit Technicalreports for proposed projects under Eastern, South-Eastern & southern zone.

From July 2011 to Feb 2014

Superintending Engineer (Civil) & Director, staff Development. BWDB

Responsibilities include:

- Recruitment of new personnel in BWDB and maintenance seniority list as per guidelines.
- recruitment of contractual personnel.
- Setup and continually update the personnel Management information system (PMIS)
- Prepare & update organizational and functional charts of all units of BWDB.
- Prepare and update documents for administrative guidance such as description of functions, job description, rules of procedure and BWDB Employees service rules.

✓

From Oct 2010 to July 2011

Superintending Engineer (civil), Water Management Improvement Project (WMIP- PCU), BWDB

Responsibilities include:

- Review the inception Report, monthly, interim & annual reports of consultancy services for component 1,2,3 & 4
- Prepare & submit the technical reports of the project.
- Procurement of goods under this project (National & International tender).

From Sept 2009 to Sept 2010

✓

✓

Executive Engineer, office of the chief planning. BWDB
Responsibilities include:

- Prepare , monitoring & evaluation of technical study reports.
- Process, examine & evaluation of PPNB project.
- Climate change related works.
- Procurement of goods & services.

From Feb 2007 to Sep 2009

Executive Engineer, Netrakona O & M Division. BWDB

Responsibilities include:

- Execution of construction works of Flood control embankment & 12 nos of various ventages of Drainage regulators under khalajuri FCD Project (Haor Area)
- Construction of River Bank protective works on the sumeswari, kangsha.Mogra updakhali & Dhanu River.
- O & M of completed project such as Dampara water Management projects, updakhali project, sumeswari River Hazard Management project, Thakurakuna project etc.
- Procurement of another 14 nos Regulators & causeway structure under khalajuri FCD project.
- Emergency flood protection work under the completed project.

From Feb 2006 to Nov 2007

Executive engineer (Civil), office of the Chief Training & staff Development. (HRD) BWDB

Responsibilities include:

- Process the annual Procurement plan for the training institutes.
- Design the training modules for the training institutes.

From Sep 2003 To Jan 2006

Executive engineer (Civil), Narail O & M Division, BWDB

Responsibilities include:

- Procurement & execution of River bank protective works on the Modhumati river
- Emergency Protective works and retired embankment under Modhumati Nabagonga project, chenchuri beel project, mulia Paherghata project etc.
- O & M and FFW works of the completed above project.
- Prepare the southwest Area integrated water resources Management Project.(Chenchuri & Narail sub-project).

From June 2001 To Sept 2003

Executive Engineer (Civil), Design Circle-6, BWDB

Responsibilities include:

- Design of bellhead groyne & R.C.C, Impermeable spur on the Jamuna River at Bogra and on Teesta River at Lalmonirhat district.
- Design of water control structures (Bridge cum sharp crested weir cum broad crested weir) under Bhateswari River irrigation project at Lalmonirhat district.
- River bank protection works on Darla, Dudhkumar & Brahmaputra river.
- Design of 18 vent regulator on Fulkumar River at Kurigram district.

From March 2001 To June 2001

Executive Engineer (Civil), office of the chief Monitoring, BWDB

Responsibilities include:

- Prepare monthly project status report for review by the Ministry and publish these for circulation among different BWDB units.
- Prepare working papers for parliamentary committees etc.

From Feb 1999 To Feb 2001

Sub-Divisional Engineer (Civil), Lalmonirhat O & M subdivision-2, BWDB
Responsibilities include:

- Execution of construction of R.C.C permeable & impermeable spur on the Dudhkumar River at Kurigram.
- Construction of River bank protective works on Dudhkumar and Teesta River.
- & M and FFW works of the completed project under the division.

From Sept 1997 To Feb 1999

Sub-Divisional Engineer (Civil), Kushtia O&M sub-division-2, BWDB
Responsibilities include:

- & M of physical Components of G.K irrigation project(such as Canals ,Regulators, syphons, aqueduct, inlet-outlet, Escape structure etc. under the sub-Division).
- Flood Emergency works.
- Irrigation management through controlling the structures.

From April 1995 To Sept 1997

Sub-Divisional Engineer (Civil), Project Management Unit(PMU). BWDB
Responsibilities include:

- Monitoring the SSFCDI project.
- Review the progress report from field divisions.
- Process the fund release according to physical progress of the said projects (SSFCDI)

From Nov 1991 To April 1995

Sub-Divisional Engineer (Civil), Tungipara O&M Sub-Division Gopalganj, BWDB
Responsibilities include:

- Execution the construction work of 10 Nos. Boat pass cum regulator, Navigation lock, Navigation lock cum regulator, Drainage cum flushing regulator, Embankment etc. Under Tarail-Pachuria project.
- Construction of 7 Nos armoured closer dam under Tarail Pachuria project.
- & M & FFW works.

From July 1989 To Nov 1991

Sub-Divisional Engineer (Civil), Design circle-7, BWDB

Responsibilities include:

- Design of head regulators, check regulators, canals (Lined & unlined) etc for the secondary & Tertiary system of Rangpur canal under Teesta Barrage Project.

From Oct 1987 To June 1989

Sub-Divisional Engineer (Civil), Gournadi & Jhalakathi W.D. sub-Division Barisal, BWDB

Responsibilities include:

- Construction of closers, retired embankment under satla-Bagda Project.
- Construction of 20 km H.B.B Road over embankment & village road under satla-Bagda Project.
- & M and FFW works.

From Sept 1982 To Oct 1987

Sub-Divisional Engineer & Assistant Engineer (Civil), Design circle- NZ , NEZ, SWZ

& Ganges barrage, Teesta barrage Project. BWDB
Responsibilities include:

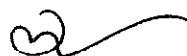
- Design of 12 vent Regulator under Boral Basin Project(NZ)
- Design of Regulators under Bhutiar Beel project (SWZ)
- Design of Balanced cantilever bridge over Dinajpur canal under Teesta - Barage Project on the Rangpur Syedpur highway.
- Back water, bank shifting and deep channel movement study.
- Aggradations & degradation study of the Ganges.
- Flood routing & design unit hydrograph etc.

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:

- January 2016 To Date; Sr. Hydraulic Engineering of Engineering & Planning Consultants Ltd. (EPC)
- September 2014 To April 2015; Addl. Chief Engineer (Civil) & chief Training & Staff Development. BWDB
- Feb 2014 to Sep 2014; Superintending Engineer (Civil), Design Circle - 2 & Design circle-4, BWDB
- July 2011 to Feb 2014; Superintending Engineer (Civil) & Director, staff Development. BWDB
- Oct 2010 to July 2011; Superintending Engineer (civil), Water Management Improvement Project (WMIP-PCU), BWDB
- Sept 2009 to Sept 2010; Executive Engineer, office of the chief planning. BWDB
- Feb 2007 to Sep 2009; Executive Engineer, Netrakona O & M Division. BWDB
- Feb 2006 to Nov 2007; Executive engineer (Civil), office of the Chief Training & staff Development. (HRD) BWDB
- Sep 2003 To Jan 2006; Executive engineer (Civil), Narail O & M Division, BWDB
- June 2001 To Sept 2003; Executive Engineer (Civil), Design Circle-6, BWDB
- March 2001 To June 2001; Executive Engineer (Civil), office of the chief Monitoring, BWDB
- Feb 1999 To Feb 2001; Sub-Divisional Engineer (Civil), Lalmonirhat O & M subdivision-2, BWDB
- Sept 1997 To Feb 1999; Sub-Divisional Engineer (Civil), Kusthtia O&M sub-division-2, BWDB
- April 1995 To Sept 1997; Sub-Divisional Engineer (Civil), Project Management Unit(PMU). BWDB
- Nov 1991 To April 1995; Sub-Divisional Engineer (Civil), Tungipara O&M Sub-Division Gopalganj. BWDB
- July 1989 To Nov 1991; Sub-Divisional Engineer (Civil), Design circle-7, BWDB
- Oct 1987 To June 1989; Sub-Divisional Engineer (Civi), Gournadi & Jhalakathi W.D. sub-Division Barisal, BWDB
- Sept 1982 To Oct 1987; Sub-Divisional Engineer & Assistant Engineer (Civil), Design circle- NZ , NEZ, SWZ & Ganges barrage, Teesta barrage Project. BWDB

Training:

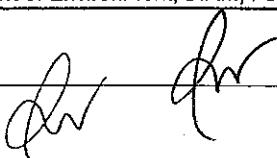


Abroad:

- Study tour on Participatory irrigation Management in Philippines and Indonesia October 2012
- Integrated Water Resources Development Management with Participatory Management including Advanced Application of Spatial Analysis Tools, AIT, Thailand, May to June 2012.

In the Country:

- Senior Management Training Course, Engg. Academy, kaptai, Rangamati , March 2014
- Preparation of DPP and Fund Release, BWDB Training Institute, Bhagyakul, Munshigonj, January, 2013.
- Training of Trainees (TOT), BWDB Training Institute, Bhagyakul, Munshigonj, Nov 2011.
- Computer internet Training, Engineering Academy, kaptai, Rangamati, June 2010.
- National Water policy and participatory water Management, BWDB Training institute, Bhagyakul, Munshigonj, August 2006.
- Climate change & Bangladesh, Department of Environment, BIAM, Feb-March 2006.



- National Training on public Procurement Management, CPTU-IMED, December 2005.
- Modernization of BWDB Accounting system, CIDA, August 2002.
- River Erosion and Bangladesh, Academy for Planning & Development, Nov 2001.
- Construction Management, Engineering Academy, kaptai, Rangamati, Sept 1999.
- Design of small scale water control structures
- CIDA-NHCL, March 1987.
- Project Planning, Preparation and Monitoring, MIWFC, February 1987.

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

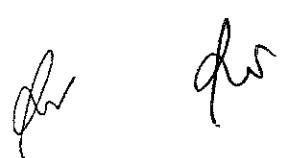


Date of Signing

07/06/2017
Day / Month / Year

CV No. 7

Hydraulic Modeler
Md. Mobassarul Hasan



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-58
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	: Hydraulic Modeler
2. NAME OF PERSON	: Md. Mobassarul Hasan
3. DATE OF BIRTH	: 19 November 1974
4. NATIONALITY	: Bangladeshi
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	: - Member IEB
6. EDUCATION	: - M.Sc. from the Department of Water Resources Engineering, Bangladesh University of Engineering & Technology (BUET) in 2009. - B.Sc. (Hons.) in Civil Engineering (Major: Water Resource Engineering), Bangladesh University of Engineering & Technology (BUET) in 2000.
7. OTHER TRAINING	<p>: International</p> <ul style="list-style-type: none"> • December 3 – 14 December, 2012 (10 days): Training on MIKE 21 FM at Danish Hydraulic Institute (DHI), Denmark. The main objective of the training is to understand the physical processes on wave dynamics, coastal sediment transport and shoreline changes and to develop wave and sediment transport model in advance level using MIKE 21 FM • September 12 – 30, 2011 (21 days): As an International visitor under "International Visitor Leadership Program" on "Transboundary Water Resource Management" organized by United States Department of State, Bureau of Educational and Cultural Affairs, USA. The purpose of the visit is to engage in a series of professional meetings with different professionals such as water engineers, professors, government officials, environmentalist, lawyer, sociologist etc related to water resource management, site visits such as desalination plant, great lakes, water treatment plant, dam, power plant, other water related sites and varieties of activities in Washington DC, Michigan, Texas, Arizona and Oregon. • February 21–25, 2011 (5 Days): Training Workshop on "Share the experience of Sri Lanka in managing disasters in order to help in enhancing the capacities of officers from Institution of Water Modeling". The workshop was financed by Asian Disaster Preparedness Centre (ADPC), Thailand and was implemented by National Building Research Organisation (NBRO), Sri Lanka. The Study tour program consisted of two day seminar on 'Multi-Hazard/Disaster Risk Management' and some field trips to observe the disaster risk mitigation activities undertaken by Sri Lanka. The other purpose of the workshop was knowledge sharing between visiting flood modeling experts of Bangladesh with the counterparts from Sri Lanka. • May 26–28, 2009 (3 Days) : Training Workshop on "Developing Water and Climate Change Adaptation Guidelines in Malaysia". The workshop was organised by National Hydraulic Research Institute of Malaysia. The main focus of the workshop was on working guidelines for adaptation strategies, status and option in developing hydro climate modelling and regional co-operation and knowledge hub services. <p></p> <p>Local:</p> <ul style="list-style-type: none"> • June 2013: Training on Introduction to MIKE 11 ECO Lab conducted by DHI, Denmark. The main focus of the training was to make understanding of ECO Lab module and Transport Modeling (AD Module), to develop water quality model for

different water quality parameters and to calibrate the water quality model.

- June 4 – June 9, 2011 (6 days): Training on Modelling using Delft 3D under the project titled "Bangla-Dutch Research Initiative on Flood Risk Management and Morphological Assessment" conducted by UNESCO-IHE. The main focus of the workshop was on Process-based morphological modelling using Delft 3D, long term simulations, wave in morphological modelling, input reduction methods and introduction of MATLAB and SWAN.
- April 17 – April 21, 2011 (5 days): Weather Research and Forecasting (WRF) training workshop, IWM, Dhaka, conducted by Asian Disaster Preparedness Center (ADPC), Thailand in collaboration with The Energy and Resources Institute (TERI), India.
- Jan 10 – Jan 14, 2010 (5 days): Regional Workshop: "Climate Change and Water Resources: IWRM as a tool to cope with changing condition of the climate change system" BCDM, Gazipur, Dhaka, Bangladesh. Organized by Bangladesh Centre for Advanced Studies.
- November, 2008 (3 days): Training on "Climate Change Training for Water Professionals" IWFM, BUET, Dhaka. Organised by IWFM. Main Field: Climate Model, Economic Implication, Social implication and Impact of Climate Change on Flooding
- February, 2008 (3 days): Training on "Climate Change Risk and Adaptation in Water Sector" IWFM, BUET, Dhaka. Organised by IWFM. Main Field: Risk due to climate change in Bangladesh and proper measures
- March, 2007 (3 days): Training Courses on "Technical Report Writing", organized by IEB and held at IEB.
- May, 2006 (3 weeks): Advance Training on Mike21 C – 2nd Phase, organized by IWM and held at IWM. Conducted by DHI, Denmark.
- January, 2006 (3 weeks): Advance Training on Mike21 C – 1st Phase, organized by IWM and held at IWM. Conducted by DHI, Denmark.
- September - October, 2003 (3 weeks): Training on "Hydrometric Data Collection" organized by IWM and held at Munsiganj.

Training conducted as a resource person

Malaysia

- Training on Hydrodynamic and Morphological model using MIKE 21 FM for NAHRIM officials, at Port Dickson, Selangor, Malaysia. From 8th July to 23rd July 2010.
- On-the-job training on Hydrodynamic model using MIKE 21 FM (HD and SW) for NAHRIM officials, at NAHRIM, Seri Kembangan, Selangor, Malaysia. From 24th February to 21st March 2009.
- On-the-job training on Morphological model using MIKE 21 FM (ST and MT) for NAHRIM officials, at NAHRIM, Seri Kembangan, Selangor, Malaysia. From 25th May to 23rd June 2009.
- On-the-job training on Salinity model using MIKE 11 (HD and AD) for NAHRIM officials, at NAHRIM, Seri Kembangan, Selangor, Malaysia. From 3rd to 26th November 2009.

Bangladesh

- Advance training on MIKE 21 FM "Hydrodynamic, Wave and Morphological Modelling" for NAHRIM officials, at IWM, Dhaka, Bangladesh.
- One hour lecture in SRRAC Training Program on "Climate Change Adaptation and Disaster Risk Reduction" arranged by Department of Geography, Dhaka University, Dhaka, Bangladesh on July 2-15, 2009.
- 5 days training on "Bay of Bengal Salinity Model using MIKE 21 FM and Southwest Regional Model using MIKE 11" at IWM for the staffs of Water Resources Planning (WARPO), 2008-09
- One hour lecture on "Introduction to MIKE11 Modelling System" at IWM for newly recruit Junior Engineers from May 15-27, 2009

COMPUTING SKILLS Water modelling packages: MIKE 11, MIKE 21, MIKE 3, MIKE 21C, MIKE 21 FM, MIKE Flood, HEC HMS, HEC RAS and Delft 3D Programming Languages: Fortran 90 and MATLAB General: Microsoft Excel, Microsoft Word, Microsoft Power Point Preliminary Knowledge on: ARC GIS, Surfer				
8. LANGUAGE AND DEGREE OF PROFICIENCY	:	<u>Language</u> English Bengali	<u>Speaking</u> Excellent Excellent	<u>Reading</u> Excellent Excellent
9. COUNTRIES OF WORK EXPERIENCE	:	Bangladesh		
10. EMPLOYMENT RECORD	:			
EMPLOYER: Tropical Marine Science Institute (TMSI), National University of Singapore (NUS), Singapore		 From September 2014 to till date Research Associate, Responsible to carry out EIA study on water quality including salinity, sediment dynamics, land reclamation and temperature distribution depending upon the requirement of the research project by using MIKE 21 and MIKE 3. Achievements:		
		<ul style="list-style-type: none"> • Developed, calibrated and validated several hydrodynamic, morphological, water quality and temperature models using MIKE 21 and MIKE 3 covering Singapore Strait, Malacca Strait, South China Sea and Persian Gulf • Quantify the impact of land reclamation on water quality and erosion-deposition pattern • Finalize the specification for future thermal plant and desalination plant around Singapore • Worked independently with minimum supervision • Met all the project deadline 		
EMPLOYER: Institute of Water Modelling (IWM), Dhaka, Bangladesh		 From February 2003 to August 2014. Senior Coastal Hydraulic Engineer/Specialist, Responsible for overall project management, preparation of detailed survey plan and supervision of survey team, supervising modeling team to develop hydrological, hydrodynamic, sediment transport, wave, salinity, drainage and storm surge model by using HEC HMS, MIKE 11, HEC RAS, MIKE 21 Classic, MIKE 21 FM, MIKE 21C and Delft 3D, providing support and advice to associated stakeholders, preparation of technical and financial proposal, technical report at different stage of the project, and dissemination of study findings through relevant seminar and workshop.		
		 Achievements:		
		<ul style="list-style-type: none"> • Developed, calibrated and validated several hydrological, hydraulic, drainage, morphological, cyclonic stormwater, salinity and wave models using MIKE series and Delft 3D covering various locations and addressing different problems; • Undertook project manager role in several projects and their successful completion; • Recommended the planners about the most feasible solution from study findings; • Supplied design parameters to design engineers whenever needed; • Worked independently with minimum supervision; • Supervised 2 to 3 junior colleagues in each project; • Authored more than 15 consultancy reports; • Provided training regarding hydrological and hydraulic modelling as for in-house and external staffs; • Guided a number of undergraduate intern students from Bangladesh University of Engineering and Technology for their thesis work. 		
EMPLOYER: Blooming Bud Information Technology		 From August 2001 to June 2002 Lecturer Prepare lecture notes & lecture schedule and conduct classes on C, C++ and Fortran.		

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:

- September 2014 to till date: Research Associate, Tropical Marine Science Institute (TMSI), National University of Singapore (NUS), Singapore.
- February 2003 to August 2014: Senior Coastal Hydraulic Engineer/Specialist, Institute of Water Modelling (IWM), Dhaka, Bangladesh
- August 2001 to June 2002: Lecturer, Blooming Bud Information Technology.

Training:

- Attended training on Hydrodynamic and Morphological model using MIKE 21 FM for NAHRIM officials, at Port Dickson, Selangor, Malaysia. From 8th July to 23rd July 2010
- Attended training on Hydrodynamic model using MIKE 21 FM (HD and SW) for NAHRIM officials, at NAHRIM, Seri Kembangan, Selangor, Malaysia. From 24th February to 21st March 2009.
- Attended training on Morphological model using MIKE 21 FM (ST and MT) for NAHRIM officials, at NAHRIM, Seri Kembangan, Selangor, Malaysia. From 25th May to 23rd June 2009.
- Attended Training on "Salinity model using MIKE 11 (HD and AD) for NAHRIM officials, at NAHRIM, Seri Kembangan, Selangor, Malaysia. From 3rd to 26th November 2009.
- Attended Training on MIKE 21 FM "Hydrodynamic, Wave and Morphological Modelling" for NAHRIM officials, at IWM, Dhaka, Bangladesh.
- Attended Training on "Climate Change Adaptation and Disaster Risk Reduction" arranged by Department of Geography, Dhaka University, Dhaka, Bangladesh on July 2-15, 2009.
- Attended Training on "Bay of Bengal Salinity Model using MIKE 21 FM and Southwest Regional Model using MIKE 11" at IWM for the staffs of Water Resources Planning (WARPO), 2008-09
- Attended Training on "Introduction to MIKE11 Modelling System" at IWM for newly recruit Junior Engineers from May 15-27, 2009.

12. COMPUTER SKILLS

- ❖ Water Modeling Packages: MIKE 11, MIKE 21, MIKE 3, MIKE 21C, MIKE 21 FM, MIKE Flood, HEC HMS, HEC RAS and Delft 3D;
- ❖ Programming Languages: Fortran 90 and MATLAB;
- ❖ General: Microsoft Excel, Microsoft Word, Microsoft Power Point;
- ❖ Primary Knowledge on ARC GIS, Surfer.

CERTIFICATION:

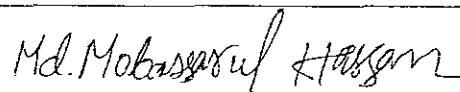
I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes 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 **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



Date of Signing

12/06/2017

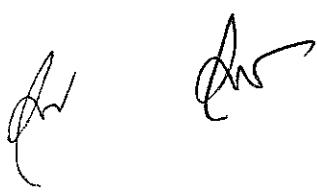
Day / Month / Year



CV No. 8

Structural Engineer-1
Dr.Khondokar Abu Zafor





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

Name of the Consultant	Soils and Foundations Limited																		
RFP IDENTIFICATION NO.	CIB-S-58																		
Name of the Client	Local Government Engineering Department (LGED)																		
<p>1. PROPOSED POSITION FOR THIS PROJECT : Structural Engineer-1</p> <p>2. NAME OF PERSON : Dr. Khondokar Abu Zafor</p> <p>3. DATE OF BIRTH : July 06, 1957</p> <p>4. NATIONALITY : Bangladeshi</p> <p>5. MEMBERSHIP OF PROFESSIONAL SOCIETIES : • Fellow, Institution of Engineers, Bangladesh (F/6142)</p> <p>6. EDUCATION : • Ph.D. (Structure) Kharkov Civil Engg. Institute, Ukraine 1988-1992 • M.Sc. Engg. (Civil) Kharkov Civil Engg. Institute, Ukraine 1982-1987 • B.Sc. Engg. (Civil) College, Ukraine (USSR). First Kharkov Industrial Training 1976-1980</p> <p>7. OTHER TRAINING : • STAAD Pro, AutoCAD Operation, MS Word, MS Excel etc.</p> <p>8. LANGUAGE AND DEGREE OF PROFICIENCY : <table border="0"> <tr> <th>Language</th> <th>Speaking</th> <th>Reading</th> <th>Writing</th> </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> <tr> <td>Russian</td> <td>Excellent</td> <td>Excellent</td> <td>Excellent</td> </tr> </table></p> <p>9. COUNTRIES OF WORK EXPERIENCE : Bangladesh, Ukraine (USSR)</p> <p>10. EMPLOYMENT RECORD : EMPLOYER: Soils and Foundations Limited From December, 2014 to Date Team Leader / Geo-Technical Engineer / Bridge Engineer. Responsible for Structural design of buildings, bridges and road works. Team Leader / Geo-Technical Engineer / Bridge Engineer, Consultancy Services for detailed Structural and Foundation Design of LGED bridges of length upto 100m and above under different projects. Some of them are <ul style="list-style-type: none"> - Second Rural Transport Improvement Project (RTIP-II), 8 nos. RCC bridges in different districts of Bangladesh, length ranges 20m to 60m –ongoing. - Engineering Design for 7 (seven) large bridges under Study Proposal Project. Length of RC and PC girder bridges 195m to 445m. –completed, time spent 6 months. - Construction of 9 (nine) nos. Important Large bridges project. Length of RC and PC girder bridges 111m to 273m.-ongoing. - Important 4 (four) Major bridges including design of long approach road with Underpass and Retaining wall in Jamalpur district project. Length of RC and PC girder bridges ranges 100m to 585m. –completed, time spent 6 months. - 27 nos. Important Major bridges in some selected districts Project. RC and PC girder bridges, length - 96m to 750m. - completed, time spent 8 months. - 48 nos. RC bridges under Greater Mymensingh Project (GMRIDP) length of bridges 16m to 99m – ongoing Responsible for detailed structural and foundation design of all type of bridges in all over Bangladesh. He was also responsible for preparation of hydraulic and design parameter and structural design of River Training Works (RTW), provide layout plan including GPS </p>				Language	Speaking	Reading	Writing	Bengali	Fluent	Excellent	Excellent	English	Excellent	Excellent	Excellent	Russian	Excellent	Excellent	Excellent
Language	Speaking	Reading	Writing																
Bengali	Fluent	Excellent	Excellent																
English	Excellent	Excellent	Excellent																
Russian	Excellent	Excellent	Excellent																

co-ordinate of RTW, determination of maximum scour level for piers and abutment for the following bridges:

Team Leader / Geo-Technical Engineer / Bridge Engineer,
Extension of Khulna Coal Based Power Plant connecting Road, Rampal Upazila,
District- Bagerhat under LGED. –Completed, time spent 4months.

Work included design of about 6.0km. road to extend previously designed 2-lane road to 4-lane road connecting Khulna – Mongla highway with additional of single lane slow moving vehicle road on either side of the 4-lane main traffic road.

Sr. Bridge Engineer Cum Team Leader,
“Consulting Services for Conducting Structural Design, Cost Estimate and Preparation of Tender Documents for 25 (Twenty five) nos. proposed bridges are to be Implemented under Rangpur Division Rural Infrastructure Improvement Project” under LGED (January 2015 to August 2015).
 Responsible for detailed structural and foundation design of 25 (Twenty five) proposed Bridges (length ranges 20m to 99m) in eight districts of Rangpur Division (Rangpur, Kurigram, Gaibandha, Nilphamari, Dinajpur, Panchagarh, Thakurgaon and Lalmonirhat).

Work includes coordination and liaison with the department, carrying out field visits for all the bridge sites, collection of hydrological data, analyse and interpret survey data, sub-soil investigation reports and all other data and reports related to the bridge structures of the project, guiding the design engineers for computer aided analysis and design of structures, foundation using software capable of three dimensional finite element analysis and design, cost estimate, guiding in preparation of bill of quantities, contract documents and specification, monitoring of progress. 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.

EMPLOYER:

Total Design Consultants Ltd.
 Engineering Science Ltd.

From April 2014 to November 2014

Consulting Services for Structural Design, BOQ and Tender Documents of Four Proposed Large Bridges in Sylhet Division” Under LGED

Team Leader (Bridge Design Engineer)

Responsible for detailed structural and foundation design of Four proposed Large Bridges in Sylhet Division, namely: 400 m length prestressed Concrete Girder Bridge over Kushiara river in Golapgonj, Sylhet district; 450 m length prestressed Concrete Girder Bridge over Kushiara river in Balagonj, Sylhet district; 150 m length RC Bridge over Kalni river in Dokhin Sunamgonj, Sunamgonj district; 160 m length PC Girder Bridge over Khowai river in Hobigonj Sadar, Hobigonj district.

Responsibility also includes Coordination and liaison with the department, guiding the design engineers for computer aided analysis and design of structures, foundation using software capable of three dimensional finite element analysis and design, cost estimate, guiding in preparation of bill of quantities, contract documents and specification, monitoring of progress, preparation of reports and overall management of the project. 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.

EMPLOYER:

SHELTECH (PVT.) LTD.

From July, 2013 to April, 2014 (10 months)

“Technical Advisory Services for Feasibility Studies for Economic Zones Project” under Bangladesh Economic Zones Authority (BEZA) Supported by the World Bank

Infrastructure Expert

Responsibilities include works concerning Feasibility Study and Design of off/on site Infrastructures for 3 (three) Economic Zones in Sherpur, Moulavi Bazar District (Sylhet Division); Mirershori, Chittagong Division and in Anwara, Chittagong Division in close collaboration with Team Leader and Economic Zone Master Planning Expert of BEZA and World Bank Consultants, JDI (Japan Development Institute) and also acting as Deputy Team Leader (National Engineers) to provide Technical/Management Support. Field visit at

EZ sites and Investigate off/on site Infrastructure and available facilities, Land Acquisition and Resettlement issues, Environmental and Social/Gender aspects, sources of water and power etc. Assess and subsequent fixation and design of on-site infrastructure inside/near the EZ for Road System (minor, main), Dry Port, Dyke System, Building including Drainage System, Water Supply System, Waste Water Treatment System, Electrical System, Communication System, Gas, Infrastructure for Textile, Ceramics, Pharmaceuticals, Paints and Food Processing Industries etc. for Sherpur EZ site. Ship building, Ship repair and Ship building components, Steel and Automobile manufacturing industries, Pharmaceuticals industries etc. for Anwara site, Machinery parts/Automobile and Bike manufacturing industry, Garments industry etc. for Mirershori EZ site, infrastructure for Coal Power Plant for Anwara and Mirershori Economic Zones (coastal Economic Zone sites); overview/design of off-site infrastructure to be required or to be improved like Highway widening, construction of Embankment cum Road (Super Dyke) along the Bay of Bengal for Anwara and Mirershori EZ sites, Small Rail Terminal (ICD-Inland Container Depot) and Parking yard at Sreemongal Railway Station for Sherpur EZ site, Gas pipe connection etc. Also, assess all possible access roads from Economic Zone Sites to Highway describing possibilities and constraints of the existing roads and recommend the best for the project.

EMPLOYER:

Kranti Associates Ltd, Dhaka

From Feb. 2012 to June, 2013 (17 months)

Consultancy Services for Detailed Feasibility Study in terms of Hydrological and Morphological Study, Economic Analysis, Environmental Impact Assessment Study, Assessment of Land Acquisition and Resettlement Requirement; Preparation of Engineering Design-drawings, Estimates & Bidding Documents for Bhola Bus Stand-Laharhat Road under LGED

Team Leader

Responsibilities include coordination and liaison with LGED and overall management of the Project. Reconnaissance visit at project site as start-up activity for Feasibility Study and design of the subject road and bridges, guiding the engineers for design of about 12 km. road including a number of small bridges (length 20m to 60m) and three major bridges of length ranging 400m to 2100m over the Tentulia, the Kalabadar and the Arialkhana rivers on the road using software capable of three dimensional finite element analysis of superstructure and substructure, design of approach roads of bridges, river training works and other components with cost estimation. Works also involve time to time visit to the site, monitoring the progress of work like traffic studies, topographical and alignment survey of road and bridges; hydraulics, hydrological and morphological study; geotechnical studies and investigations including seismic study; work out all possible locations of road alignment and bridges and provide a comparative study and recommend the best for consideration by the Government; techno-economic analysis; environmental impact assessment and assessment of land acquisition and resettlement requirements. 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.

EMPLOYER:Khalid & Partners Limited,
Dhaka

From November 1993 to February, 2012 (19 years)

Team Leader/ Structural Engineer/Bridge Engineer

Team Leader, Consultancy Services for the Feasibility Study for Bekutia Bridge on Pirojpur-Jhalakati Road over River Kocha under Jhalakati District, Bangladesh Bridge Authority (BBA) (March 2011 to December 2011).

Responsibilities include coordination and liaison with BBA and overall management of the Project. Also, guiding the engineers for preliminary design of 1700m long bridge using software capable of three dimensional finite element analysis of superstructure and substructure, design of approach roads, river training works and other components with cost estimation, monitoring the progress of work like traffic studies; topographical and alignment survey of approach road and bridge; hydraulics, hydrological and morphological study; geotechnical studies and investigations including seismic study; work out all possible bridge locations and approach embankment and provide a comparative study and

recommend the best for consideration by the Government; techno-economic analysis; environmental impact assessment and assessment of resettlement requirements; preparing progress reports and feasibility study report. 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:

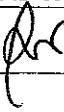
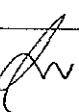
Team Leader/Structural Engineer, EIA Study and Preparation of Design and Bidding Document of 810m Long Prestressed Concrete Box Girder Bridge on Saltia Bazar-Hazigonj Bazar-Dewangonj Bazar Road Over Old Brahmaputra River at Gafargaon Upazila Under Mymensingh District, LGED (May 2009 to November 2009). Responsible for detailed structural and foundation design of 810m prestressed concrete box girder bridge under LGED. Responsibility also includes Coordination and liaison with the department, guiding the design engineers for computer aided analysis and design of structures, foundation using software capable of three dimensional finite element analysis and design, cost estimate, guiding in preparation of bill of quantities, contract documents and specification, preparation of land acquisition plan; EIA study report, monitoring of progress, preparation of reports and overall management of the project.

Team Leader/Senior Bridge Engineer, JICA Assisted Portable Steel Bridge Project of Upazila and Union Roads of LGED (June 2006 to July 2010). Responsible for detailed structural and foundation design of 55 RCC/PC girder bridges and 92 Portable Steel Bridges in 17 districts of Bangladesh. Responsibility also includes coordination and liaison with the department, guiding the design engineers for computer aided analysis and design of structures, foundation using software capable of three dimensional finite element analysis and design, cost estimate, guiding in preparation of bill of quantities, contract documents and specification, preparation of land acquisition plan; quality control, monitoring of progress, preparation of reports and overall management of the project. Also, guiding the field engineers for time to time visit to the sites for supervision of bridges / culverts and road construction work including erection of Steel Bailey super structure of bridges.

Project Coordinator/Senior Structural Engineer, Rural Infrastructure Development Project of LGED (July 2004 to May 2006). Responsible for detailed structural and foundation design of large number of RCC/PC girder bridges on Rural Roads all over the country undertaken by LGED. Work involved preparation of program for sub-soil investigation including field and laboratory tests. Proper quality control program was established for the boring operation and field tests at the site and the tests at the laboratory. Interpretation of test results and establishment of foundation design parameters from those test results. Work also involved selection of cast-in-situ r.c.c. bored piles or r.c.c. driven piles, depending on the sub-soil condition at the sites. Horizontal load analysis of piles taking into consideration of soil and pile interaction, using general analysis and design software STAAD Pro. Work also involved design of preloading for the approach roads over soft clay materials to mitigate the settlement problem. Made time to time visit for top supervision of bridges and road (approaches) construction work at sites.

Team Leader/ Structural Engineer, Greater Khulna District Infrastructure Development Project of LGED (Jan 2003 – June 2004) involving 53 nos. of RCC/PC girder bridges. Responsible for organizing topo survey and sub-soil investigation, carry out structural and foundation design, preparation of drawings, cost estimate, tender document and specification for the bridges. Responsibilities also involve time to time visit to the sites for supervision of bridges / culverts and road construction work.


Structural Engineer, Bridge Replacement Project of RHD financed by DFID (Oct 2002 - June 2003). Responsible for the detail structural analysis and design using software STAD III of three bridges on national/regional highways of Bangladesh at Nandukuja (Natore), Noahatta (Rajshahi) and Gabura (Dinajpur) including organizing topographic survey, subsoil investigation, detail drawing, cost estimate, tender documents and specification and liaison with RHD and DFID consultants, High-Point Rendel. Made supervision at sites for

bridges, road construction work.

Bridge Design Engineer, DFID Assisted Steel Bailey Bridges Project on Important Feeder Roads and Rural Roads of LGED (Jan 2000 – June, 2002) involving structural and foundation design of 160 nos. pin type portable bailey steel bridges. Carryout reconnaissance visit at sites, organize sub-soil investigation, site survey, fixing of design criterion, selection of foundation type, carryout computer aided analysis and design of RCC sub-structures, preparation of construction drawings, tender documents and bill of quantities. Works also involved time to time visit to the sites for construction supervision of bridges, road including erection of Steel Bailey super structure of bridges.

Design Engineer, IDB (Islamic Development Bank) Assisted Feeder Road Project (Phase-IV), LGED (Feb. 2000 to Nov. 2000). Responsible for detail structural analysis and design of 13 bridges in the districts Pabna, Faridpur, Rajbari and Kushtia including site visit for collection of informations like appraisal of location, hydrological data, tentative length of the bridges and others, organizing site survey, sub-soil investigation, assist in cost estimate, preparation of specification and tender document.

Structural Engineer, Design of 492 m long RCC bridge of LGED over Atrai river near Khanshama Upazila Headquarter in Dinajpur (July 2002 to Sept. 2002). Responsible for analysis of the bridge structure using software STAD III, detail structural and foundation design, assist in cost estimate, preparation of specification and tender document. Duties also included overall supervision of Soil Investigation and interpretation of soil tests for assessment of bearing capacity of soil.

Design Engineer, Tangail Infrastructure Development Project Phase-III of LGED financed by KfW (Aug 1998 to Dec 1999) consisting of 60 kilometer of roads and 14 RCC bridges. Carriedout computer aided analysis, structural and foundation design of bridges and culverts; checking of estimates, drawing and preparation of bill of quantities and contract documents, guiding the field engineers regarding quality control and top supervision of road and bridges/ culverts construction work and preparation of progress reports

Design Engineer, Tangail Infrastructure Development Project Phase-II Flood Damage Repair Crash Program funded by KfW (additional work) of LGED involving rehabilitation and replacement of 20 number RCC bridges and 21 number box culverts. Assessment of existing structures for replacement needs, computer aided analysis, structural and foundation design of all structures, guided in preparation of drawings and cost estimates. Top supervision of construction work of bridges / culverts at sites.

Structural Engineer for Training Sessions on Road Structure Manual (R.S.M) for the CARE, Bangladesh (December, 1998). Works involved preparation of a Training Curriculum on RSM, necessary Handouts/Booklets, an agenda for 3 to 4 days training on RSM and train around fifteen CARE Staff and forty five LGED Staff (Executive Engineers, District Training Engineers, Thana Engineers of LGED) and Field Officers of CARE. The number of sessions was three in Dhaka. Actual works included preparation of training including technical papers for Preliminary Field Investigation; Topo Survey; Hydrological Study; Field and Laboratory Soil Investigation; Structural design of U-drain, Pipe Culvert, RC box Culvert, RC Bridges including example Solution for all of them; Quality Control and Construction problems and their solutions.

Design Engineer, Construction/Reconstruction of Roads, Bridges/Culverts (including Flood Damaged Infrastructures) in Rural Areas on Priority Basis, Year January 1997 to July 1998 of the LGED. Structural and foundation design, drawing, BOQ and cost estimates of 24 nos. portable steel bridges under Chinese Barter (Jan 1997 to July 1998). Supervision for erection of Chinese Barter Steel superstructure of bridges.

Or

Bridge Design Engineer, Feasibility Study of 225.5m long Hatubhangha Bridge Project of the LGED funded by KfW (Nov to Dec 1996). Work involved site selection, survey, preliminary structural and foundation design including foundation systems, bank protection, cost estimate of different options and recommend most feasible option.

dr

dr

Bridge Engineer, Rural Infrastructure Development Project (Dev. of Important Roads and Markets) Part-III of the LGED involving design of 81 nos. RCC bridges in all over Bangladesh, site visit and top supervision of bridges/culverts and road (approaches) construction work and preparation of progress report (March 1996 to June 1997).

Bridge Engineer, Rural Infrastructure Development Project (Dev. of Important Roads and Markets) Part-II of the LGED involving design of 26 nos. RCC bridges in different districts of Bangladesh, site visit and top supervision of bridges/culverts and road (approaches) construction work and preparation of progress report (Sept. 1995 to June 1997).

Bridge Engineer, Rural Infrastructure Development Project (Dev. of Important Roads and Markets) Part-I of the LGED involving design of 54 nos. RCC bridges (Jan 1995 to June 1997).

Carriedout reconnaissance visit at sites, organized sub-soil investigation and site survey; computer aided analysis and design, checking of drawings, detail estimate and bill of quantities, preparation of technical specification of as-built drawing, training of LGED personnel and liaison with the department. Top supervision of construction work of bridges/culverts and road.

Design Engineer, Detailed design of 23 nos. RC and 1 no. PC girder bridges under PL-480, Title-III programme financed by USAID (Jan to Dec. 1994).

Design Engineer, Design of Multi-storied Buildings and Industrial Complex Collected relevant data, organise topo-survey and sub-soil investigation, carryout analysis and design, assist in preparing BOQ and cost estimate, prepare tender specification, site visit and top supervision etc for the following works:

- Detailed design of the 6-Storied Factory Building for Jayson Pharmaceutical Ltd., Dhaka
- Detailed design of the 8-Storied Factory Building for Libia Pharmaceutical Ltd., Dhaka
- Detailed structural design and drawings for the Factory Complex of Classic Melamine Industries Limited at Konabari, Joydevpur.
- Detailed Design of Multipurpose Auditorium Building with 500 seating capacity for Brahminbaria Pourashava.
- Detailed structural design and working drawings for the Shilpakala Academy Auditorium, Bagerhat .
- Detailed structural design and drawings for the Women's Sports Complex at Rajshahi.

EMPLOYER:
AQUA Consultant and
Associates

From November, 1992 to October, 1993 (12 months)

Secondary Towns Infrastructure Development Project (STIDP-I) of LGED in 10 Pourashavas: Sylhet, Mymensingh, Rangpur, Bogra, Bhola, Kushtia, Pabna, Cox's Bazar, Barguna and Feni. Supported by the Asian Development Bank (ADB).

EMPLOYER:
KHARKOV CIVIL ENGG
INSTITUTE, UKRAINE (USSR)

Structural Design Engineer,

Responsible for site investigation, design and cost estimates of bridges/culverts, road, markets, bus terminals etc. in the Pourashava and liaison with LGED and ADB Consultants, Louis Berger International, Inc.

From September, 1982 to September, 1992 (11 years)

Post Graduate Studies Research Fellow for Ph.D. Course (Sept 1987 to Sept 1992)
Research Fellow for M.Sc. Civil Engg. Course (Sept 1982 to Sept 1987)

Structural Engineer, State Program on Civil and Industrial Construction, Ukraine (USSR) (1986-1992).
Performed the following:

- Involved in the design and supervision of retaining structures and tunnels for Kharkov underground Metro.
- Analyzed superstructure of concrete, steel and suspension bridges.
- Design Engineer for different industrial and multi-storied residential building projects.

	<ul style="list-style-type: none"> - Designed and supervised of multistoried residential buildings in the Sultavka area of Kharkov under Construction Directorate (CD-2). - Designed and supervised of Kharkov Turbine Factory Project of Kharkov Scientific Research Institute for Industrial Construction. - Supervised the construction work of Kharkov Cocco Theatre Building. - Designed foundation of different type of structures for the projects under Kharkov Scientific Research Institute for Engineering Materials.
EMPLOYER:	From April 1981 to August 1982 (17 months)
OXFAM UK in BANGLADESH	<p>Assistant Engineer Works included detail design, estimate and supervision of the implementation of low cost urban sanitation program.</p>
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:	
<p>Dr. Khondokar Abu Zafor started his carrier as a design engineer since 1981. Subsequently, he continued the design as structural and foundation engineer in various projects of LGED, RHD, BBA and BEZA and so far completed hundreds of RCC and prestressed girder/box girder bridges of different length among which a number of bridges ranges 200m to 2800m length. Dr. Zafor took responsibility of a number of projects (Feasibility Study/Detail Design of Road and Bridges Projects) in LGED and BBA as Team Leader, worked as Structural Engineer in RHD projects, Infrastructure Expert for Feasibility Study and Design of off/on site infrastructures for 3 Economic Zones Project under Bangladesh Economic Zones Authority (BEZA), Supported by the World Bank. At present Dr. Zafor is working as Team Leader / Sr. Structural Engineer / Bridge Engineer for Consultancy Services for detailed Structural and Foundation Design of LGED bridges of length upto 100m and above under different projects in all over Bangladesh. The projects he worked in as structural engineer, Team Leader, Infrastructure Expert, are:</p>	
<p>Experience:</p> <ul style="list-style-type: none"> • Team Leader / Sr. Structural Engineer / Bridge Engineer, Consultancy Services for detailed Structural and Foundation Design of LGED bridges of length upto 100m and above under different projects in all over Bangladesh. (December 2014 to date) • Senior Bridge Engineer Cum Team Leader, "Consulting Services for Conducting Structural Design, Cost Estimate and Preparation of Tender Documents for 25 (Twenty five) nos. proposed bridges are to be Implemented under Rangpur Division Rural Infrastructure Improvement Project" under LGED. (January 2015 to August 2015) • Team Leader (Bridge Design Engineer), "Consulting Services for Structural Design, BOQ and Tender Documents of Four Proposed Large Bridges in Sylhet Division" under Local Government Engineering Department (LGED). (April, 2014 to November, 2014) • Infrastructure Expert, "Technical Advisory Services for Feasibility Studies for Economic Zones Project" under Bangladesh Economic Zones Authority (BEZA) Supported by the World Bank (July, 2013 to April, 2014) • Team Leader, Consultancy Services for Detailed Feasibility Study in terms of Hydrological and Morphological Study, Economic Analysis, Environmental Impact Assessment Study, Assessment of Land Acquisition and Resettlement Requirement; Preparation of Engineering Design-Drawings, Estimates & Bidding Documents for Bhola Bus Stand-Laharhat Road under LGED. (Feb. 2012 to July, 2013) • Team Leader, Consultancy Services for the Feasibility Study for Bekutia Bridge on Pirojpur-Jhalakati Road over River Kocha under Jhalakati District. Bangladesh Bridge Authority (BBA). (March 2011 to December 2011). • Team Leader/Structural Engineer, EIA Study and Preparation of Design and Bidding Document of 810m Long Prestressed Concrete Box Girder Bridge on Saltia Bazar-Hazigonj Bazar-Dewangonj Bazar Road Over Old Brahmaputra River at Gafargaon Upazila Under Mymensingh District, LGED (May 2009 to Nov. 2009). • Team Leader/Senior Bridge Engineer, JICA Assisted Portable Steel Bridge Project of Upazila and Union Roads of LGED (June 2006 to July, 2010). • Project Coordinator/Senior Structural Engineer, Rural Infrastructure Development Project of LGED (July 2004 to May 2006). • Team Leader/Structural Engineer, Greater Khulna District Infrastructure Development Project of LGED (January 2003 to June 2004) • Structural Engineer, Bridge Replacement Project of RHD financed by DFID (October 2002 to June 2003). • Bridge Design Engineer, Portable Bailey Steel Bridge with DFID Assistance, LGED (January 2000 to June 2002). • Design Engineer, IDB (Islamic Development Bank) Assisted Feeder Road Project (Phase-IV), LGED (Feb. 2000 to Nov. 2000). • Structural Engineer, Design of 492 m long RCC bridge of LGED over Atrai river near Khanshama Upazila Headquarter in 	

Dinajpur, (2002 – 2002).

- Design Engineer, Tangail Infrastructure Development Project-II and III, financed by KfW, LGED (1998 – 1999).
- Structural Engineer for Training Sessions on Road Structure Manual (R.S.M) for the CARE, Bangladesh (December, 1998).
- Design Engineer, Construction/Reconstruction of Roads, Bridges/Culverts on Priority Basis, LGED (January 1997 to July 1998).
- Bridge Design Engineer, Feasibility Study of 225.5m long Hatubanga Bridge Project of the LGED funded by KfW (Nov to Dec 1996).
- Bridge Engineer, Rural Infrastructure Development Project (Dev. of Important Roads and Markets) Part-III of the LGED (1996 – 1997).
- Bridge Engineer, Rural Infrastructure Development Project (Dev. of Important Roads and Markets) Part-II of the LGED (1995 – 1997).
- Bridge Engineer, Rural Infrastructure Development Project (Dev. of Important Roads and Markets) Part-I of the, LGED (1995 – 1997).
- Design Engineer, Detailed design of 23 nos. RC and 1 no. PC girder bridges under PL-480, Title-III Program financed by USAID (1994-1994).
- Design Engineer, Design of Multi-storied Buildings and Industrial Complex
- Design Engineer, Secondary Towns Infrastructure Development Project (STIDP-I), LGED financed by the Asian Development Bank (ADB) (1992-1993).
- Structural Engineer, State Program on Civil and Industrial Construction, Ukraine (USSR) (1986 – 1992).
- Assistant Engineer, OXFAM UK in BANGLADESH, (1981-1982).

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

12. COMPUTER SKILLS	: <ul style="list-style-type: none"> • 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:

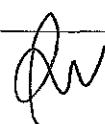
YES

NO

Signature


Date of Signing
10/06/2017 Day / Month / Year

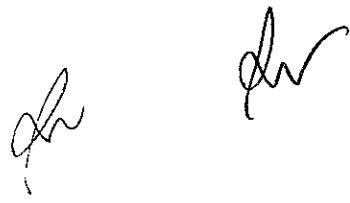




CV No. 9

Structural Engineer-2
Md. Zakaria Pathan





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

Name of the Consultant	Soils and Foundations Limited
RFP IDENTIFICATION NO.	CIB-S-58
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	Structural Engineer-2			
2. NAME OF PERSON	Md. Zakaria Pathan			
3. DATE OF BIRTH	01 October, 1973			
4. NATIONALITY	Bangladeshi			
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	-			
6. EDUCATION	<ul style="list-style-type: none"> • M. Sc. in Civil Engineering, Belgorod State Academy, Russia, 1998. • B. Sc. in Civil Engineering, Belgorod State Academy, Russia, 1997. 			
7. OTHER TRAINING	-			
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	Employer: Soils and Foundations Limited			
	From September, 2008 to Date As Senior Bridge Engineer of the Company involved in structural 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 under LGED			
	Bridge Design 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 336.00m Bridge over the Karaloa River on Chatra GC to Glibabari Ghat via Nischintobati Primary School road at Nundaha Ghat under Upazila: Pirganj, District: Rangpur.			
	From Jan 2016 to Jun 2016 (6 months) 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.			
	Bridge Design 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 294.00m Bridge over the Karatoa River on Joynapur Ghat-Gopinathpur Road at Chainage 1500m under Upazila: Pirganj, District: Rangpur.
- 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.
- 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

Bridge Design Engineer

Responsible for coordination of the team work, 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 Natiapara NHW – Kanchapur 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 under LGED

Bridge Design Engineer

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 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 Langalgram Road (Damage str WDB). (Road ID: 177253012). Upazila: Boda, District: Panchagar.
- Construction of RCC Girder Bridge on Beltoli – Debiganj road near Binnakuri Bazar over Ishamoti River. (Road ID: 127302001). Upazila: Chirirbandar, District: Dinajpur.
- Construction of RCC Girder Bridge on Palashbari UP Office – Mach boil 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 Teprabari) 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 Jagoa 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 – Shapkha road at Ch. 0+180 Km. (Road ID: 14614019). Upazila: Nageswari, District: Kurigram.
- Construction of RCC Girder Bridge on Fulkumar River Thana Ghthahebgabi 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 Ratani 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 Dhghi 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 Iahangga 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)

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

Bridge Design 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:

- 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, Upazil: 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 Balaijuri 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 - Markurli 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, 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 (Holiday) 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 - Badaghhat - 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, Upazill: Dharmapasha; District: Sunamganj
Span Length: 35.000m
- Structural design of 315.00m PSC Girder Bridge over Bowlai River on Netrakona - Dharmapasha - Jamalgonj - Sunamgonj road (Jamalgonj - Sunamgonj 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, Upazill: 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), Upazill: Sadar; District: Tangail
Span Length: 45.000m
- Structural design of 342.00m Long PSC Girder Bridge over Atrai River of Kalnamor to Kalna Bispnopur near Khayaghat. Upazill: 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, Upazill: 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. Upazill: 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), Upazill: 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, Upazill: Mongle; 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 , Upazill: Dumki, District: Patuakhali
Span Length: 30.000m

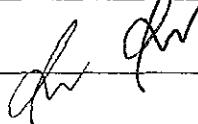


From Aug 2014 to Sep 2014 (02 months)

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.

Bridge Design Engineer

Responsible for 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:

- 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.

Bridge Design Engineer

Responsible for 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:

- 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.

Bridge Design Engineer

Responsible for 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:

- Structural design of 600.000m long Pre-stressed Girder Bridge over Kaliganga River at Nesabad 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.

Bridge Design Engineer

Responsible for field visit, assist in Detail Engineering Design, 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:

- 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 HQ to Baruband Bazar Road at Jaldhaka Upazila under Nilphamari 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 July 2012 to Nov 2013 (17 months)

JICA-funded South-Western Bangladesh Rural Development Project: Design and Supervision Consulting Services

Bridge Engineer

Responsible for assisting the Co-Team Leader in preparing detailed Project implementation plans; preparing design for roads, bridges, culverts and drainage structures, embankment, pavements and foundation of the bridges; preparing standard designs and specifications for growth centers and rural markets and their facilities, including drainage systems, parking areas, waste disposal facilities, and sanitary toilet facilities; consulting local stakeholders on the design of growth centers and rural markets; assisting the redesigning of growth centers and rural markets; providing assistance in conducting different engineering surveys of roads, bridges/culverts and other infrastructures; monitor growth center and rural market construction works; and preparing maintenance plans for growth centers and rural markets. Conducted engineering surveys and investigations for preparation of the engineering designs and reports.

Responsible for field visit, assist in Detail Engineering Design, Field data Collection and assist in Report Preparation. Some major Structures designed are as follows:

- Construction of 432.00 m Long PC Girder Bridge on Muladi to Kutubpur Road vai Nazipur GC & Mollar Hat GC at Ch. 12+200 Km under Muladi Upazila, Barisal District.
- Construction of 306.40m Long PSC Girder Bridge on Khalek Srite Sangha (R&H) – Joynagar GC Road at Ch. 9+060km under Zajira Upazila, Shariatpur District.
- Construction of 362.36m Long on Kuchaiputty Up – Kodalpur GC Road at Ch.1050m under Goshairhat upazila in Shariatpur District.
- Construction of 92.02m long RCC Girder Bridge on Tushkhali GC – Sapelea GC Road via Masua Bazar, Belmore & Amragachia Bazar at Ch. 8+350km under Mathbaria Upazila, Pirojpur District.
- Construction of 90.00 M Long RCC Girder Bridge Over Chuna River on Noabenki - Horinagar GC Road at CH. 5+940 Km Under Shyamnagar Upazila, Shathkhira District.
- Construction of 93.00 M PSC Girder Bridge on Mongla Paurasova – Shalabunia Baiddamary Bazar Road at Ch 05+743 Km Under Mongla Upazila, Bagerhat District.
- Construction of 93.00 m Long RCC Girder Bridge Over Nikarimary Khal on Kathaltola - Magurkhali - Kapilmuni Road At Ch. 20+000 Km Under Dumuria, Khulna Distict.

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.

Bridge Design Engineer

Responsible for 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:

- 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.

Bridge Design Engineer

Responsible for 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:

- 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: 20.000m
- 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: 25.000m

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.

Bridge Engineer

Responsible for field visit, assist in Detail Engineering Design, 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:

- Structural design of 341.000m long Pre-stressed Girder Bridge over Dhaleshwary River at Austagram Upazila under Kishoreganj District.
Span Length: 31.000m
- Structural design of 950.000m long Pre-stressed Girder Bridge over Dharla River at Fulbari Upazila under Kurigram District.
Span Length: 50.000m
- Structural design of 297.000m long Pre-stressed Girder Bridge over Fulzor River at Ullapara Upazila under Sirajganj District.
Span Length: 33.000m

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)

Bridge Engineer

Responsible for field visit, assist in Detail Engineering Design, 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:

- 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.

Bridge Engineer

Responsible for field visit, assist in Detail Engineering Design, 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:

- 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 – Keliasganj – 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)

Bridge Engineer

Responsible for field visit, assist in Detail Engineering Design, 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 378.40m long Pre-stressed Girder Bridge over Maya River on

	<p>Anjurhat-Charmanika-Dolarhat Road, Upazila: Charfession, District: Bhola.</p> <ul style="list-style-type: none"> • 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: Resource Planning and Management Consultants (Pvt) Ltd, Dhaka	<p>From Jan 2008 to Dec 2009 (24 months) ADB/JICA-assisted Emergency Disaster Rehabilitation Project: Part-B (Rural Infrastructure) under LGED</p> <p>Bridge Design Engineer Responsible for field visit, assist in Detail Engineering Design, Field data Collection, assist in Report Preparation, carryout detailed design and drawings of all disaster damages structures like bridge, culverts, roads, pavements, etc. and the related components of the Project including plan, design, execute and monitor for timely and proper implementation of this project in consultation with Team Leader or as per direction of the Project Director. Also providing assistance in conducting different engineering surveys of roads, bridges/culverts and other infrastructures.</p> <ul style="list-style-type: none"> • Proposed 110.0m span bridge on Shibganj-Dhobavra GC Road at Ch. 07+410km, Upazila-Durgapur, District-Netrakona. • Proposed 125.0m long RCC Girder Bridge on Dharmakura GC – Mahmudpur GC via Baliadah Bazar Upazila Road at Ch. 05+570km, Upazila-Islampur, District-Jamalpur. • Proposed 114.0m long RCC Girder Bridge over a depression on Aramnagar GC-Koyra GC via Satpua UP road at Ch. 06+225km, Upazila-Sarishabari, District-Jamalpur. • Proposed 100.50m long RCC Girder Bridge over Bhugul Hat Ditch on Bhadra Bazar-Daptiar Bazar Road at Ch. 03+200km, Upazila-Nagarpur, District-Tangail.
EMPLOYER: Soils and Foundations Ltd.	<p>From July 2007 to Dec 2007 (06 months) Telecommunication Tower Project</p> <p>Design Engineer Responsible for field visit, assist in Detail Engineering Design, Field data Collection and assist in Report Preparation of foundation of telecommunication towers, supervision of drafting works under Telecommunication Tower Project.</p>
EMPLOYER: Local Government Engineering Department (LGED)	<p>From Jul 2003 to Jun 2007 (48 months) Large Bridge/Culverts Project under LGED</p> <p>Bridge Design Engineer</p> <ul style="list-style-type: none"> • Responsible for field visit, assist in Detail Engineering Design, Field data Collection and assist in Report Preparation, detail design, drawings, survey of roads and bridge of the (a) 100.0m long concrete bridge over Ichamoti River between old and new Bandura Bazar, Upazila: Nawabgonj, Dhaka; (b) 125.0m long concrete bridge on Ibraimpur-Mahmudabad Road, Upazila: Belabo, Narsingdi; (c) 110.0m long concrete bridge on Jagannathpur-Raniganj Road over Nilgor river, upazila: Jagannathpur, district: Sunamganj; (d) 196.0m Long concrete Box Girder Bridge over Chepa River at Bangibecha Ghat-Mazadanga Road, Upazila: Sadar, Dinajpur; (e) 150.0m long pre-stressed Concrete Bridge over Trinai River on birol road, Upazila: Sadar, Dinajpur; (f) 140.0m long concrete bridge on bakrabad gas field to Alirchar road over Gomti river upazila: Muradnagar, district: Comilla; and (g) 100.0m long concrete bridge at Shekherhat ghat, upazila: Badarganj, district: Rangpur. Conducted conditional surveys, feasibility studies, geo-technical investigation, hydraulic survey work for the proposed bridges and approach roads, construction supervision, design modification, maintenance, report preparations etc. preparation of estimate and BOQ of PC/RC bridges having total length varies from 60m to 330m located all over Bangladesh. Also responsible for design of bank protection works, drainage and earth retaining structures, attend several meeting with LGED high official and foreign delegate. Responsible for the construction supervision of Khilgaon Fly over

	<p>EMPLOYER: A.I. & Associates Ltd.</p> <p><i>(Handwritten mark: A large 'X' is written vertically along the left margin of this section.)</i></p>	<p>Project. Works include preliminary survey, survey of utilities services, Geo-technical investigations, Preparation of design, drawings, estimates, layout setting, Construction supervision of foundations, PC girder, Stressing, grouting & lifting shifting of PC girder, Reinforced earth retaining walls, sand densification, testing of materials, supervision of high performance concrete in Batch plant.</p> <p>From Feb 2000 to Jun 2003 (41 months) 5-Star Radisson Water Garden Hotel at Airport road, Dhaka, 14-Storied DGFI Building at Cantonment Area, Dhaka / Large Bridge & Culvert Project</p> <p>Junior Bridge Design Engineer Responsible for the construction supervision and materials quality control of 8 storied Five Star Radisson Water Garden Hotel at Airport road, Dhaka. Responsible for the construction supervision of and materials quality control of 14 storied DGFI building at cantonment area Dhaka. Responsible for field visit, assist in Detail Engineering Design, Field data Collection and assist in Report Preparation, design and construction supervision of bridges, preparation of structural drawing using AutoCAD, preparation of bar schedule and bill of quantity. Already has completed the design of a good number of RCC bridges all over Bangladesh under Large Bridge and Culvert Project of Local Government Engineering Department (LGED); (i) 196.0m Long Concrete Box Girder Bridge Over Chepa River at Bangibecha Ghat-Mazadanga road, Upazila: Sadar, Dinajpur; (ii) 150.0m Long Pre-stressed concrete Bridge over Trinai River on birol Road, Upazila: Sadar, Dinajpur; (iii) 140.0m long concrete bridge on Bakhrabad Gas Field to Alirchar road over Gomti river Upazila: Muradnagar, District: Comilla; (iv) 100.0m long concrete bridge at shekherghat, Upazila: Badarganj, District: Rangpur; (v) 39.0m long concrete bridge on Dhanbari-Karamjani road, Upazila: Modhupur, District: Tangail; (vi) 36.0m long concrete bridge at Khazerpara over Karatua river, Upazila: Parbatipur, District: Dinajpur; (vii) 66.0m long concrete bridge on Chinkhara-Satbaria road Atbamundri, Upazila: Sujanagar, District: Pabna; (viii) 36.0m long concrete bridge over Alhori river on Bagor-Orabari road, Upazila: Trishal, District: Mymensingh; (ix) 75.0m long concrete bridge over new Dakatia river on Hajaripara to Mitolla road, Upazila: Laksham, District: Comilla. Supervised the construction of the Arch bridges over Dhanmondi Lake and Turag-Vakura Bridge at Amin Bazar. Responsibilities during supervision were to check reinforcement, formwork, and measurement for certificates. Top supervision was carried out for two PC Girder bridges under LBC Project. Responsibilities during supervision were to check formwork, reinforcement layout and post tensioning of PC Girders. Conducted Geo-technical investigation and survey work at some proposed bridge sites.</p> <p>From Nov 1998 to Jan 2000 (15 months) Large Bridge & Culvert Project (LGED)</p> <p>Junior Bridge Design Engineer/CAD Specialist Responsible for field visit, assist in Detail Engineering Design, Field data Collection and assist in Report Preparation, design and construction supervision of bridges, preparation of structural drawing using AutoCAD, preparation of bar schedule and bill of quantity. Already has completed the design of a good number of RCC bridges all over Bangladesh under Large Bridge and Culverts Project of Local Government Engineering Department (LGED); (i) 54.0m long concrete bridge over Dolu river, Upazila: Satkania, District: Chittagong; (ii) 54.0m long concrete bridge over Buri Khora river near Ramgonj hat Upazila: Nilphamari Sadar, District: Nilphamari; (iii) 90.0m long concrete bridge over shibu river on Kaliganj road at Kaliganj, Upazila: Mohanpur, District: Rajshahi; (iv) Conduct geo-technical investigation and survey work at some proposed bridge sites.</p>
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:		
<p>Mr. Md. Zakaria Pathan is a Masters in Civil Engineer with more than 17 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 11 years of experience in large bridge designing under different projects of LGED. Some</p> <p><i>(Handwritten mark: A signature is written across the bottom right corner of this section.)</i></p>		

of which relevant experience pertinent to the proposed assignment in this project is as outlined below:

Experience:

- **Bridge Design 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 (6 months)
- **Bridge Design 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) Jan 2016 to Jun 2016 (6 months)
- **Bridge Design Engineer**, 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)
- **Bridge Design Engineer**, Rangpur Division Rural Infrastructure Improvement Project. Jan 2015 to Jun 2015 (6 months)
- **Bridge Design Engineer**, 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)
- **Bridge Design Engineer**, 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)
- **Bridge Design 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)
- **Bridge Design 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)
- **Bridge Design 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. Dec 2013 to Jan 2014 (2 months)
- **Bridge Engineer**, JICA-funded South-Western Bangladesh Rural Development Project: Design and Supervision Consulting Services. July 2011 to Nov 2013 (17 months).
- **Bridge 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. Feb 2012 to Jun 2012 (05 months)
- **Bridge Engineer**, 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)
- **Bridge Engineer**, Greater Rangpur and Dinajpur District Rural Communication and other Infrastructure Improvement Project (GRDP) Jan 2011 to July 2011 (07 months)
- **Bridge Engineer**, Development of Public Priority Upazila Road Project of Local Government and Engineering Department (LGED), Jan 2010 to Dec 2010 (12 months)
- **Bridge Engineer**, ADB/JICA-assisted Emergency Disaster Damage Rehabilitation Project: Part-B (Rural Infrastructure) under LGED, Jan 2008 to Dec 2009 (24 months)
- **Design Engineer**, Telecommunication Tower Project, Jul 2007 to Dec 2007(6 months)
- **Bridge Design Engineer**, Large Bridge/Culverts Project under LGED, Jul 2003 to Jun 2007 (48 months)
- **Junior Bridge Design Engineer**, 5-Star Radisson Water Garden Hotel at Airport road, Dhaka, 14-Storied DGFI Building at Cantonment Area, Dhaka / Large Bridge & Culvert Project. Feb 2000 to Jun 2003 (41 months)
- **Junior Bridge Design Engineer**, Large Bridge & Culvert Project (LGED), Nov 1998 to Jan 2000 (15 months)

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

12. COMPUTER SKILLS	: <ul style="list-style-type: none"> • 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

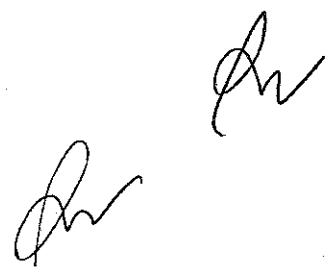
10/06/2017

Day / Month / Year

CV No. 10

GIS Specialist-1
Mohammad Shafiul Hasan





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

Name of the Consultant	Soils and Foundations Limited
RFP IDENTIFICATION NO.	CIB-S-58
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	:	GIS Specialist-1												
2. NAME OF PERSON	:	Mohammad ShafiuL Hasan												
3. DATE OF BIRTH	:	17.03.1979												
4. NATIONALITY	:	Bangladeshi												
5. MEMBERSHIP IN PROFESSIONAL SOCIETIES	:	<ul style="list-style-type: none"> - Member, Bangladesh National Geographic Association (BNGA) - Bangladesh Geographic Society (BGS), University of Dhaka. 												
6. EDUCATION	:	<ul style="list-style-type: none"> - Masters of Science (MS) Degree obtained in 2005 from Dhaka University. Major courses taken as Urban Geography, Rural Geography, Rural Planning, Human Geography, Physical Geography, Climatology, Population Geography, Water resource management, Transport Geography, Regional Geography, GIS and Remote Sensing , Cartography, Technique of Surveying, Research Method. Degree obtained in 2006 - Bachelor of Science (B.Sc) Degree obtained in 2005 from Dhaka University. 												
7. OTHER TRAINING	:	<ul style="list-style-type: none"> - Obtained on-the-Job Training on Total and Post processing of survey data using computer software, like SDRMap, Civil CAD, AutoCAD MAP, AutoCAD, Land Desktop, Autodesk Survey conducted by Directorate of Land Record and Survey, Dhaka, 2010. - B) Obtained on-the-job Training on Differential Survey-grade GPS including processing of GPS data using various software, conducted by Directorate of Land Record and Survey, Dhaka, 2010. - C) Obtained on-the-job Training on Disaster Risk in Bangladesh conducted by Food and Disaster institute ministry of Food and Disaster Management in Dhaka 2005 - D) Obtained on-the-job Training on ESRI ARCGIS Certificate in Bangladesh conducted by Environment Science Research Institute USA, 2013. 												
8. LANGUAGE AND DEGREE OF PROFICIENCY	:	<table> <tr> <th>Language</th> <th>Speaking</th> <th>Reading</th> <th>Writing</th> </tr> <tr> <td>English</td> <td>Good</td> <td>Good</td> <td>Good</td> </tr> <tr> <td>Bengali</td> <td>Excellent</td> <td>Excellent</td> <td>Excellent</td> </tr> </table>	Language	Speaking	Reading	Writing	English	Good	Good	Good	Bengali	Excellent	Excellent	Excellent
Language	Speaking	Reading	Writing											
English	Good	Good	Good											
Bengali	Excellent	Excellent	Excellent											
9. COUNTRIES OF WORK EXPERIENCE	:	Bangladesh												
10. EMPLOYMENT RECORD	:	<p>EMPLOYER: Soils and Foundations Limited.</p> <p>From April 2015 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.</p> <p>Responsibilities includes:</p> <ul style="list-style-type: none"> - Processing satellite images; - Identification of bank-line shifting and plan form change using satellite images; - GIS analysis for river bank locations; - Preparation of project location map, agro-ecological map, bio-ecological map, 												

- protected areas, seismic zone map, seven soil zone map; and
- Preparation of different reports as required for the proposed study and other miscellaneous task as and when required.

EMPLOYER:
DWASA, Dhaka.

From October 2013 To March 2015

GIS Expert; Distribution Water Pipe Network, Dhaka Water Supply Sector Development Project, DWASA, Dhaka.

Responsibilities includes:

- Satellite Image Collection, Satellite Image processing, Digital Elevation Model (DEM) data generate, Surface Contour generate, DTM Point generate, Established TBM to each area, Road Level verify using Level machine, Digitize for Topography data (Raster to Vector), Data projection and map preparation, Field verification of existing map with road names, house number and other utilities, Corrected map and printing with existing pipe network, Household connection survey for water demand, GIS database updating and map preparation, Longitudinal profiles of the pipelines, Node details for all nodes, Actual drawings of any structures (plan and sections), showing built-in pipes and fittings, materials HDPE Pipe.
- For designing of model to collect house connection information, such as Name and address of the customer, Connection type, Service pipe diameter, Water meter number and size, Distance between Main Pipe Line to Property Boundary, Distance between Property boundaries to Water Meter Chamber, To collect GPR (Ground Penetration Radar) survey data where Soil Condition at different depths, Position of Water Line, Gas line, Electricity Line, Drainage/Sewerage Line, T&T Line and Other Utility Line, Network analysis.
- Creating and maintaining the structures necessary for GIS data storage.
- Manipulation, analysis and presentation of geographical information by creating programs to convert GIS information from one format to another.
- develops and implements quality assurance/quality control procedures including geospatial data management policies and guidelines, standards and metadata documentation;
- develops and provides training to both internal and external users on geospatial data management and other operational issues.

EMPLOYER:
International Centre for
Diarrhea Disease of
Bangladesh(ICDDR,B)

From April 2012 To September 2013

GIS Expert; Mirpur Shishu Posti Project (MSPP), International Centre for Diarrhea Disease of Bangladesh(ICDDR,B),

Responsibilities includes: Questionnaire development, Performing advanced GIS data analysis, Analyzing primary and secondary data, Monitoring and Supervision of research works, Producing Maps using ArcGIS and ArcView GIS software, Performing satellite imagery, Documentation and reporting, Monitoring the whole work as a team leader, Monitor the quality control operations, To train new employees

EMPLOYER:
LGED, Dhaka.

From July 2011 To March 2012

GIS Analyst & Photogrammetric Officer; Preparation of Drainage Master Plan under Second Urban Governance and Infrastructure Improvement Project (UGIIP-II), LGED, Dhaka.

Responsibilities includes:

- 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 surveys necessary to prepare contour lines and base maps on GIS platform. 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. Guide the field surveyors for collecting data using TS, Level Machine, Data Logger and GPS. Plotting the collected data in digitized format. Building, Structuring and sorting of Attributes and preparing different type of maps such as physical feature, Land use , DEM, Contour, Drainage network, cross section etc. Interpretation of data (both attribute and map data),

	<p>documentation and report writing, Prepare land Acquisition map.</p> <ul style="list-style-type: none"> - Map composition, Draw longitudinal profile. <p>EMPLOYER: Urban Development Directorate (UDD)</p> <p>From November 2009 To June 2011 GIS Analyst & Photogrammetric Officer; Preparation of Development Plan (Madaripur,Mymensingh) Project, Urban Development Directorate (UDD) Responsibilities includes: Vector mapping in ArcGIS environment with stereo images, Generation of 3D Building Models, Editing of Digital Terrain Model (DTM) and contours, Improve personal technical skill on specification and software that eventually increase the production ability, Rechecking and verification of the work and correcting them as necessary, Provide progress report to the management, Maintain the quality control (QC) operation, Conducting researches using different types of research methodologies, Monitoring and Supervision of research worksAnalyzing primary and secondary data, Designing and implementing research projects and field surveys, Preparing Technical and Financial proposal for different scientific research works, Questionnaire development, Performing advanced GIS data analysis, Spatial database management, Performing satellite imagery and aerial photographs interpretation, Producing Maps using ArcGIS and ArcView GIS software, Documentation and reporting, Presentation on the findings of the research works, Basics of photogrammetric and managing geographical data.</p>
EMPLOYER: Government of Denmark	<p>From January 2007 To October 2009 GIS &Photogrammetric Officer; HORSEN, DGP, FREDSHIA, HANINGBORNG ETC PROJECT; Projected by Denmark Government. Responsibilities includes: Photogrammetric Stereo Mapping, Generation of 3D Building Models, Editing of Digital Terrain Model (DTM) and contours, Improve personal technical skill on specification and software that eventually increase the production ability, Producing Maps using ArcGIS and ArcView GIS software, Geo Database Processing, Danish Mapping Specification (FOT, TK99, DGP, 3D Building),DEM Creation, Database creation and management, Aerial Triangulation, Orthophoto, Checking common geometric error from database.</p>

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:

- April 2015 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.
- October 2013 To March 2015; **GIS Expert**; Distribution Water Pipe Network, Dhaka Water Supply Sector Development Project, DWASA, Dhaka.
- April 2012 To September 2013; **GIS Expert**; Mirpur Shishu Posti Project (MSPP), International Centre for Diarrhea Disease of Bangladesh(ICDDR,B),
- July 2011 To March 2012; **GIS Analyst & Photogrammetric Officer**; Preparation of Drainage Master Plan under Second Urban Governance and Infrastructure Improvement Project (UGIIP-II), LGED, Dhaka.
- November 2009 To June 2011; **GIS Analyst & Photogrammetric Officer**; Preparation of Development Plan (Madaripur, Mymensingh) Project, Urban Development Directorate (UDD)
- January 2007 To October 2009; **GIS &Photogrammetric Officer**; HORSEN, DGP, FREDSHIA, HANINGBORNG ETC PROJECT; Projected by Denmark Government.

Training:

- Obtained on-the-Job Training on Total and Post processing of survey data using computer software, like SDRMap, Civil CAD, AutoCAD MAP, AutoCAD, Land Desktop, Autodesk Survey conducted by Directorate of Land Record and Survey, Dhaka, 2010.
- B) Obtained on-the-job Training on Differential Survey-grade GPS including processing of GPS data using various software, conducted by Directorate of Land Record and Survey, Dhaka, 2010.
- C) Obtained on-the-job Training on Disaster Risk in Bangladeshconducted by Food and Disaster institute ministry of Food and Disaster Management in Dhaka 2005
- D) Obtained on-the-job Training on ESRI ARCGIS Certificate in Bangladesh conducted by Environment Science Research Institute USA, 2013.

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
- B) GIS& Remote Sensing Software:ARC/INFO, ArcView, ArcGIS 10.3, ENVI , ArcGIS Server , SQL Server, Windows Server, Erdas Imagine13
- GPS Software: Topcon Tools, Spectrum Survey, SKI Pro, Prism, Ashtech solution.
- Graphic Design Software:Adobe Photoshop, Adobe Illustrator, Google Sketch up, Water Cad V8i.
- Photogrammetry Software:Summit Evaluation.
- Office Software& Database: Microsoft Word, Microsoft excel, Microsoft Project, Microsoft Power point, MS Access, MS Visio, SPSS 12.0

CERTIFICATION:

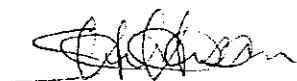
I, the undersigned, certify that (i) I was not a former employee of the Client immediately before submission of this Proposal, (ii) I have not offered my CV to be proposed by a Firm other than this Consultant for this assignment and, (iii) to the best of my knowledge and belief, this CV correctly describes 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:

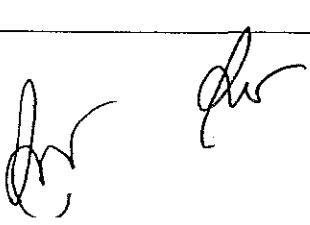
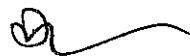
YES

NO

Signature



Date of Signing

10/06/2017
Day / Month / Year

CV No. 11

GIS Specialist-2
Neamul Ahsan Khan







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-58
Name of the Client	Local Government Engineering Department (LGED)

1. PROPOSED POSITION FOR THIS PROJECT	: GIS Specialist-2												
2. NAME OF PERSON	: Neamul Ahsan Khan												
3. DATE OF BIRTH	: 14 October 1978												
4. NATIONALITY	: Bangladeshi												
5. MEMBERSHIP OF PROFESSIONAL SOCIETIES	: <ul style="list-style-type: none"> Associate Member (AM-04593), Bangladesh Computer Samity Member, Bangladesh National Geographical Association 												
6. EDUCATION	: <ul style="list-style-type: none"> Masters in GIS with Environment and Development (MSGED), Jahangirnagar University, Savar, Dhaka (Ongoing) Post Graduate Diploma in Information Technology (PGD in IT), 2004, Department of Computer Science & Technology, University of Rajshahi. Masters of Geography & Environmental Studies, 2002, Dept. of Geography & Environmental Studies, University of Rajshahi, Result: Second class Bachelor of Geography & Environmental Studies, 2001, Dept. of Geography & Environmental Studies, University of Rajshahi, Result: Second class 												
7. OTHER TRAINING	: <ul style="list-style-type: none"> Completed 6 months' internship program about Database Programming & GIS with Bangladesh Computer Council through National ICT internship, Ministry of Science and ICT, 2005. Courses on MS Office, MIS, Web design and administration, Networking etc. were included in internship program in Bangladesh Computer Council. Completed training on "Network Configuration, Linux Setup, Internet Gateway Management" from Sustainable Development Associates organized by BWSPP. Completed training on Microsoft Great Plains 7.5 about Computerize Financial Management System from Bentol Solutions, 2007. Completed training on Microsoft Office and SPSS from SDA, 2008. Completed training on Financial Management training from DPHE, 2011. Completed Training for GIS & Remote Sensing Creating Land Use/Land Cover Map using High Resolution Satellite Imagery with IRDAS IMAZINE from December, 2013 												
8. LANGUAGE AND DEGREE OF PROFICIENCY	: <table> <tr> <th>Language</th> <th>Speaking</th> <th>Reading</th> <th>Writing</th> </tr> <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> </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 style="text-align: right;">22</p> <p>EMPLOYER: SPMC, Bangladesh</p> <p>From February 2016 To Date</p> <p>GIS SPECIALIST, Brahmaputra River Survey Work</p> <p>Major duties performed:</p> <ul style="list-style-type: none"> Work under the supervision of the Unit In-charge of GIS Unit; Prepares the maps as required by Firm; Acquires data from satellite imagery available within the GIS Unit; 												

EMPLOYER:
IFAD, Bangladesh

From 1st December, 2013 To January 2016

GIS SPECIALIST, Coastal Climate Resilient Infrastructure Project (CCRIP), RDEC Building, Level-3, RDEC building, LGED, IFAD

Major duties performed:

- Work under the supervision of the Unit In-charge of LGED's GIS Unit;
- Prepares the maps as required by CCRIP;
- Acquires data from satellite imagery available within the GIS Unit;
- Assess the adequacy of these data and recommends purchase of hardware and software as needed
- Create maps and graphs, using GIS software and related equipment;
- Gather, analyze and integrate spatial data form staff and determine how best then information can be displayed using GIS;
- Analyze spatial data for geographic statistics to incorporate into documents and reports.
- Compile geographic data from a verity of sources including censuses, field observation, satellite imagery, aerial photographs and existing maps.
- Makes field visits to verify maps with ground truth data.
- Train the Upazila's Infrastructure Supervision Engineer, Sub-Assistant Engineers and surveyors on the use of GPS systems and on data transmission to LGED GIS Unit at HQ.
- Publish Web GIS applications (ie. ArcGIS online).

EMPLOYER:
UNDP

From 1st April 2013 To 30 November, 2013

Database Management Officer; UNDP and Department of Environment (Ministry of Environment and Forest-MOEF) Community Based Adaptation in the Ecologically Critical Areas through Biodiversity Conservation and Social Protection Project (CBA-ECA Project)

Major duties performed:

- Assess the hardware and software requirements and specification of the project.
- Install, develop and maintain the project's electronic data base information system, networking, GIS for project monitoring and evaluation purposes, explore and retrieve data from community surveys, ward, local and central level.
- Develop continuous refining and up-dating database of information relevant for all aspects agencies to ensure the maximum sharing of information and references.
- Provide assistance in the development of community maps for community analytical purposes and the preparation of other mapping requirements of the project for maintaining and reporting purposes.
- Train up the project team in order to facilitate computerized activities undertaken by the project or third parties; broad range of environmental issues is required (ie. Land use, cropping pattern/rotation, Water, Natural Resource Management).

EMPLOYER:
Ministry of Land, Bangladesh

From 1st November 2012 To 31 March 2013

Junior GIS & IT Specialist, GOB Consultant; National Land Zoning Project-Phase-2 (NLZP), Ministry of Land

Major duties performed:

- Procure, analyze and interpret relevant remote sensing and GIS data for assessing and classifying different land uses.
- Maintain liaison with SPARRSO and other research organization for data collection and interpretation.
- Prepare report on the relevant chapters.
- Miscellaneous task as and when required and assigned by the Team leader.

EMPLOYER:
Ministry of Fisheries

From 1st July, 2012 To 31st October 2012

Data Analyst; National Agricultural Technology Project (NATP) World Bank-GOB, Ministry of Fisheries

Major duties performed:

- Analyze and problem solve issues with current and planned systems as they

- relate to the integration and management of patient data (for example, review for accuracy in record merge, unmerge processes).
- Analyze reports of data duplicates or other errors to provide ongoing appropriate inter-departmental communication and monthly or daily data reports.
 - Monitor for timely and accurate completion of select data elements (for example, verbal physician orders).
 - Acquire and abstract primary or secondary data from existing internal or external data sources
 - Perform data entry, either manually or using scanning technology, when needed or required.
 - In collaboration with others, interpret data and develop recommendations based on findings
 - Develop graphs, reports, and presentations of project results.
 - Perform basic statistical analyses for projects and reports.

EMPLOYER:

Department of Public Health Engineering (DPHE),
Ministry of LGRD & Co-operative, Local government
Division

From 16th April 2006 To 30th June 2012

GIS Officer; Bangladesh Water Supply Program Project (BWSPP)

Major duties performed:

- Prepared Maps of Bangladesh and specific locations showing Arsenic Results, Population and Household Density, geological characteristics.
- Prepared Technical specifications for all IT related equipments, services and software procurement, Prepared TOR for all IT related training for BWSPP personals
- Assist in preparing timely reports of Disaster like SIDR/AILA affected area and Water Supply, Sanitation data to Government departments (IMED/ERD/LGD) and National Parliament.
- Maintain NAMIC data bank (soft and hard copies) and update database regularly: Developed, hosted and regularly updating the BWSPP official websites.

EMPLOYER:

GIS Department, DatexPvt. Ltd.
Dhaka

From 1st June 2004 To 15th April 2006

GIS Assistant; Detail Area Project (DAP), RAJUK

Major duties performed:

- Purbachal Town Project, Detail Area Planning (DAP) for DMDP, RAJUK Edit plot checking, Geo-referencing, Joining and edge matching of Revenue Survey & Cadastral Survey maps.
- Collection and Storage of project related data.
- Editing and error correction of the digitized coverage. Finalization and printing of map, Preparing maps and Analyzed of different data layer using Arc View 3.2a, uses of GPS.

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:

- 1st December, 2013 To Date; GIS SPECIALIST, Coastal Climate Resilient Infrastructure Project (CCRP), RDEC Building, Level-3, RDEC building, LGED, IFAD
- 1st April 2013 To 30 November, 2013; Database Management Officer; UNDP and Department of Environment (Ministry of Environment and Forest-MOEF) Community Based Adaptation in the Ecologically Critical Areas through Biodiversity Conservation and Social Protection Project (CBA-ECA Project)
- 1st November 2012 To 31 March 2013; Junior GIS & IT Specialist, GOB Consultant; National Land Zoning Project-Phase-2 (NLZP), Ministry of Land
- 1st July, 2012 To 31st October 2012; Data Analyst; National Agricultural Technology Project (NATP) World Bank-GOB, Ministry of Fisheries
- 16th April 2006 To 30th June 2012; GIS Officer; Bangladesh Water Supply Program Project (BWSPP)
- 1st June 2004 To 15th April 2006; GIS Assistant; Detail Area Project (DAP), RAJUK

Training:

- Completed 6 months' internship program about Database Programming & GIS with Bangladesh Computer Council

through National ICT internship, Ministry of Science and ICT, 2005. Courses on MS Office, MIS, Web design and administration, Networking etc. were included in internship program in Bangladesh Computer Council.

- Completed training on "Network Configuration, Linux Setup, Internet Gateway Management" from Sustainable Development Associates organized by BWSPP.
- Completed training on Microsoft Great Plains 7.5 about Computerize Financial Management System from Bentel Solutions, 2007.
- Completed training on Microsoft Office and SPSS from SDA.2008.
- 5. Completed training on Financial Management training from DPHE, 2011.
- Completed Training for GIS & Remote Sensing Creating Land Use/Land Cover Map using High Resolution Satellite Imagery with IRDAS IMAZINE from December, 2013

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 willful 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



Date of Signing

12/06/2017
Day / Month / Year

