



**Government of the People's Republic of Bangladesh
Ministry of Road Transport and Bridges
Road Transport and Highways Division
Roads & Highways Department**

ADDENDUM - 2

To

THE CONTRACT FOR CONSULTANCY SERVICES

For

Design and Construction-Supervision of Paira Bridge (Lebukhali Bridge) over the river Paira on Barisal-Patuakhali road, Bangladesh

(KUWAIT FUND LOAN NO. 841)

Between

Roads and Highways Department

And

ICT-Kunhwa-NARCO-EPC JV

Intercontinental Consultants and Technocrats Pvt. Ltd

Kunhwa Consulting & Engineering Co. Ltd

Dr. Nabeel Abdul-Raheem Consultants

Engineering and Planning Consultants Ltd



October 2019

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 - Attachment-2: Authorization letter(s) for Addendum-2 Contract signing
 - Attachment-3: Addendum-2 Report



ADDENDUM-2 CONTRACT AGREEMENT



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Addendum-2 Contract Agreement

This ADDENDUM-2 (hereinafter called the "Addendum-2") to the Original Contract Agreement is made the 9th day of the month of October 2019, between, on the one hand, *The Chief Engineer, Roads & Highways Department* (hereinafter called the "Client") and, on the other hand, a Joint Venture consisting of the following entities, each of which will be jointly and severally liable to the Client for all the Consultant's Obligations under this Contract, namely, *Intercontinental Consultants and Technocrats Pvt. Ltd* and *Kunhwa Consulting & Engineering Co. Ltd*, *Dr. Nabeel Abdul-Raheem Consultants, Engineering and Planning Consultants Ltd* (hereinafter called the "Consultant").

WHEREAS

- The Client and the Consultants entered into a Contract (hereinafter called the "Original Contract") on 08 December 2013 and an Addendum-1 on 3rd February 2016 for providing certain consulting services as defined in the Original Contract (hereinafter called the "Services");
- The necessity for Addendum-2 has risen from the requirement of additional inputs of the Consultant due to the extension of time for Civil works Contract.
- The Government of Bangladesh has approved the Addendum-2.

NOW THEREFORE the parties hereto hereby agree as follows:

- In this Addendum-2 words and expressions shall have the same meaning as are respectively assigned to them in the Original Contract & Addendum-1 referred to.
- The following documents attached hereto shall be deemed to form an integral part of the Addendum-2.
 - Addendum-2 Contract Agreement.
 - The Annexure (1 to 5)
 - Annexure-1: The Particular Conditions of Contract (PCC) (Revised)
 - Annexure-2: Work Plan (Revised)
 - Annexure-3: Staffing Schedule of Key Personnel (Revised)
 - Annexure-4: Responsibilities of Key Professional (Addendum-2)
 - Annexure-5: Cost Estimates (Revised)

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3. The following attached documents shall also be deemed to form an integral part of the Addendum-2:
 - a) Attachment 1: Approval letter of Addendum-2.
 - b) Attachment 2: Authorization letter(s) for Addendum-2 signing.
 - c) Attachment3: Addendum-2 Report.
4. The mutual rights and obligation of the Client and Consultant shall remain enforce as set forth in the Original Contract & Addendum-1.
5. The other terms and conditions of Original Contract & Addendum-1 shall remain unchanged.

IN WITNESS We, the Parties hereto have caused this Addendum-2 to be signed in their respective names as of the day and year first above written.

For and on behalf of each of the Members of the
Consultant

Intercontinental Consultants and Technocrats Pvt.
Ltd. & KUNWHA & NARCO

P.Kapila



Prashant Kapila
Chief Operating Officer (COO)
Intercontinental Consultants and Technocrats Pvt.
Ltd

For and on behalf of Roads &
Highways Department

Ebne Alam Hasan

Chief Engineer
Roads and Highways Department

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

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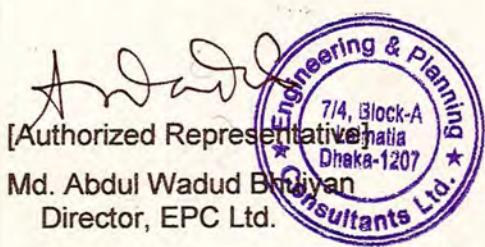
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Amrit
Bhattacharya

P.Kapil

Engineering and Planning Consultants Ltd.



In presence of:

1. <p>Noor-e-Alam Project Director Paitra Bridge Construction Project, RHD</p>	2. <p>BC Dinesh Team Leader ICT-Kunwaa-NARCO-EPC JV Paitra Bridge (Lebukhali) Project, RHD</p>
3. <p>Ahmad Sharif Shajib PM (E.E, RHD) Paitra Bridge (Lebukhali Bridge) construction Project, RHD.</p>	4. <p>MD SHAHID HOSSAN Manager Int. Pvt. Ltd.</p>

Annexure-1: The Particular Conditions of Contract (PCC) (Revised)



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Particular Conditions of Contract

GCC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
	RFP IDENTIFICATION NO:PD/Paira/01 date 31.12.2012
1.1 (e)	<p>Name of the Client : Chief Engineer Roads & Highways Department Sarak Bhaban, Ramna, Dhaka-1000, Bangladesh</p> <p>Authorised</p> <p>Representative: Project Director Paira Bridge (Lebukhali Bridge) Construction Project</p>
1.1 (f)	<p>The Consultant is: ICT-KUNHWA-NARCO-EPC Joint Venture</p> <p>Authorised</p> <p>Representative: Mr. Prashant Kapila President & Chief Operating Officer (COO) Intercontinental Consultants and Technocrats Pvt. Ltd A-8, Green Park New Delhi-110 016 India</p>
1.1 (o)	<p>The Intended Completion Date is June 2021 (Including DLP)</p>
GCC 2.1	<p>The assignment is to be completed in the following phases:</p> <ol style="list-style-type: none"> Design Phase (28 month): Design Phase consists of 09 months design period and 19 months Selection of Contractor period. Construction-Supervision Phase (61.33 month): Construction Supervision Phase consists of 49.33 months Construction-Supervision Period and 12 months Defect- Liability Period.
GCC 3.1	<p>The addresses for Communications and Notices are:</p> <p>Client : Chief Engineer Roads & Highways Department Sarak Bhaban, Tejgaon, Dhaka-1208, Bangladesh</p> <p>Attention : Project Director Paira Bridge (Lebukhali Bridge) Construction Project Bangladesh Road Research Laboratory, Mirpur, Dhaka,</p>

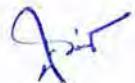


PK

D. J. S.

	<p>Bangladesh</p> <p>Facsimile : +88 029021685, +88 029021756</p> <p>E-mail : pd.paira@gmail.com, pdpb@rhd.gov.bd</p> <p>Consultant : ICT-KUNHWA-NARCO-EPC Joint Venture</p> <p>Attention : Mr. Prashant Kapila</p> <p style="text-align: center;">President & Chief Operating Officer (COO)</p> <p style="text-align: center;">Intercontinental Consultants and Technocrats Pvt. Ltd</p> <p style="text-align: center;">A-8, Green Park</p> <p style="text-align: center;">New Delhi-110 016 India</p> <p>Facsimile : 0091-11-26855252</p> <p>E-mail : pkapila@ictonline.com</p>
GCC 6.1(e)	The following additional documents shall form the part of the Contract: None
GCC 8.1	Non eligible countries are: Israel
GCC 11.1	The Member in Charge is: Mr. Prashant Kapila President & Chief Operating Officer (COO) Intercontinental Consultants and Technocrats Pvt. Ltd
GCC 12.1	The Authorized Representatives are: For the Client : Project Director Paira Bridge (Lebukhali Bridge) Construction Project For the Consultant: Mr. Prashant Kapila President & Chief Operating Officer (COO) Intercontinental Consultants and Technocrats Pvt. Ltd A-8, Green Park New Delhi-110 016 India





GCC 15.1	<p>The Client warrants that the Client shall pay on behalf of the Consultant, the Sub-Consultants and the Personnel any indirect taxes, duties, fees, levies and other impositions imposed, under the Applicable Law, on the Consultant, the Sub-Consultants and the Personnel in respect of:</p> <ul style="list-style-type: none"> (a) any payments whatsoever made to the Consultant, Sub-Consultants and the Personnel (other than nationals or permanent residents of the Government's country), in connection with the carrying out of the Services; (b) any equipment, materials and supplies brought into the Government's country by the Consultant or Sub-Consultants for the purpose of carrying out the Services and which, after having been brought into such territories, will be subsequently withdrawn there from by them; (c) any equipment imported for the purpose of carrying out the Services and paid for out of funds provided by the Client and which is treated as property of the Client; (d) any property brought into the Government's country by the Consultant, any Sub-Consultants or the Personnel (other than nationals or permanent residents of the Government's country), or the eligible dependents of such Personnel for their personal use and which will subsequently be withdrawn there from by them upon their respective departure from the Government's country, provided that:
	<ul style="list-style-type: none"> (1) the Consultant, Sub-Consultants and Personnel, and their eligible dependents, shall follow the usual customs procedures of the Government's country in importing property into the Government's country; and (2) if the Consultant, Sub-Consultants or Personnel, or their eligible dependents, do not withdraw but dispose of any property in the Government's country upon which customs duties and taxes have been exempted, the Consultant, Sub-Consultants or Personnel, as the case may be, (i) shall bear such customs duties and taxes in conformity with the regulations of the Government's country, or (ii) shall reimburse them to the Client if they were paid by the Client at the time the property in question was brought into the Government's country.
GCC 17.1	The conditions for effectiveness of the Contract are the following: none
GCC 18.1	The contract shall come into effect on the date the Client issues notice to the Consultant to commence carrying out the services.
GCC 20.1	The time for commencement of the Services shall be 14 (fourteen) days after the Effective Date of the Contract.
GCC 21.1	The Contract shall expire 89.33 months after the effective date unless terminated earlier pursuant to GCC clauses 63 to 66.
GCC 34.4(a)	The Consultant is notified of such actions, claims, losses or damages not later than 6 months after conclusion of the Services.



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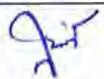
GCC 34.4(b)	The ceiling on Consultant's liability shall be limited to Contract amount .
GCC 35.1(a)	<p>The risks and the coverage shall be as follows:</p> <ul style="list-style-type: none"> (a) Third Party motor vehicle liability insurance in respect of motor vehicles operated in Bangladesh by the Consultant or its Personnel or any Sub-Consultants or their Personnel, with a minimum coverage of Tk 10,000 (Taka ten thousand only) (b) Third Party liability insurance, with a minimum coverage of Tk 500,000 (Taka five hundred thousand only) (c) Professional Liability insurance, with a minimum coverage of an amount equal to the total remuneration of the consultancy contract. (d) Employer Liability and Workers' Compensation insurance in respect of the Personnel of the Consultant and of any Sub-Consultant, in accordance with the relevant provisions of the Applicable Law, as well as, with respect to such Personnel, any such life, health, accident, travel, or other insurance as may be appropriate; and (e) Insurance against loss of or damage to (i) equipment and materials purchased in whole or in part with funds provided under this Contract, (ii) the Consultant's property used in the performance of the Services, and (iii) any documents prepared by the Consultant in the performance of the Services.
GCC 37.1(c)	<p>The other actions that shall require Client's approval are:</p> <p>Taking any action under a civil works contract designating the Consultant as "Engineer's representative", for which action, pursuant to such civil works contract, the written approval of the Client as "Employer" is required.</p>
GCC 39.3	<p>The other restrictions about future use of documents and software are;</p> <p>The Consultant shall not use these documents and software for purposes unrelated to this Contract without the prior written approval of the Client.</p>
GCC 41.1(g)	<p>Assistance for carrying out the Services to be provided by the Client are;</p> <p>None</p>
GCC 47.2	The Contract ceiling amount is: Contract amount
GCC 48.1	The Bank Account is: [insert account with details] To be informed
GCC 49.1	Payments for remuneration shall remain fixed for the duration of contract.
GCC 50.1	The Addendum-2 Contract Price is: US\$ 23,65,438.25 and Tk. 19,79,94,030.06 (including IT & VAT)



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GCC 52.1	<p>Advance Payment: 10 percent of the fees for the design phase shall be paid within 30 days after the Effective Date against the submission of a Bank Guarantee in prescribed format for the same.</p> <p>Bank Guarantee shall remain effective until advance payment is fully adjusted.</p>
GCC 52.2	<p>Advance Payment will be adjusted by the Client in the following manner:</p> <p>Advance payment will be adjusted through percentage deductions from the invoices. Deductions shall commence in the next invoice following that in which the total of invoices has reached ten percent (10%) of the fees for the design phase less provisional sums, and shall be made at the rate of twenty five percent (25%) or higher of the amount of all invoices in the types and proportionate amounts of currencies of the advance payment until such time as the advance payment has been repaid; always provided that the advance payment shall be completely repaid by the end of the design phase.</p>
GCC 53.1	The Consultant shall submit to the Client itemized statements at time intervals of one month.
GCC 53.3	The Consultant shall be entitled to receive financing charges for delayed payment during the period of delay at the following rate; 0.00%
GCC 74.2	<p>Disputes shall be settled by arbitration in accordance with the following provisions:</p> <ol style="list-style-type: none"> 1. Selection of Arbitrators. Each dispute submitted by a Party to arbitration shall be heard by a sole arbitrator or an arbitration panel composed of three arbitrators, in accordance with the following provisions: <ul style="list-style-type: none"> (a) Where the Parties agree that the dispute concerns a technical matter, they may agree to appoint a sole arbitrator or, failing agreement on the identity of such sole arbitrator within thirty (30) days after receipt by the other Party of the proposal of a name for such an appointment by the Party who initiated the proceedings, either Party may apply to the Federation Internationale des Ingenieurs-Conseil (FIDIC) of Lausanne, Switzerland for a list of not fewer than five nominees and, on receipt of such list, the Parties shall alternately strike names there from, and the last remaining nominee on the list shall be the sole arbitrator for the matter in dispute. If the last remaining nominee has not been determined in this manner within sixty (60) days of the date of the list, the Federation Internationale des Ingenieurs-Conseil (FIDIC) of Lausanne, Switzerland shall appoint, upon the request of either Party and from such list or otherwise, a sole arbitrator for the matter in dispute. (b) Where the Parties do not agree that the dispute concerns a technical matter, the Client and the Consultant shall each appoint one arbitrator, and these two arbitrators shall jointly appoint a third arbitrator, who shall chair the arbitration panel. If the arbitrators named by the Parties do not succeed in appointing a third arbitrator within thirty



	<p>(30) days after the latter of the two arbitrators named by the Parties has been appointed, the third arbitrator shall, at the request of either Party, be appointed by <i>the Secretary General of the Permanent Court of Arbitration, The Hague.</i></p>
	<p>(c) If, in a dispute subject to Clause SC 74.2 , one Party fails to appoint its arbitrator within thirty (30) days after the other Party has appointed its arbitrator, the Party which has named an arbitrator may apply to <i>the Secretary General of the Permanent Court of Arbitration, The Hague</i> to appoint a sole arbitrator for the matter in dispute, and the arbitrator appointed pursuant to such application shall be the sole arbitrator for that dispute.</p> <p>2. <u>Rules of Procedure.</u> Except as stated herein, arbitration proceedings shall be conducted in accordance with the rules of procedure for arbitration of the United Nations Commission on International Trade Law (UNCITRAL) as in force on the date of this Contract for foreign consultants and the Arbitration Act (Act no 1 of 2001) in force in Bangladesh for local consultants.</p> <p>3. <u>Substitute Arbitrators.</u> If for any reason an arbitrator is unable to perform his function, a substitute shall be appointed in the same manner as the original arbitrator.</p> <p>4. <u>Nationality and Qualifications of Arbitrators.</u> The sole arbitrator or the third arbitrator appointed pursuant to paragraphs (a) through (c) of Clause PCC 74.2.1 hereof shall be an internationally recognized legal or technical expert with extensive experience in relation to the matter in dispute and shall not be a national of the Consultant's home country or of the home country of any of their Members or Parties or of the Government's country. For the purposes of this Clause, "home country" means any of:</p> <ul style="list-style-type: none"> (a) the country of incorporation of the Consultant or of any of their Members or Parties]; or (b) the country in which the Consultant's [or any of their Members' or Parties'] principal place of business is located; or (c) the country of nationality of a majority of the Consultant's [or of any Members' or Parties'] shareholders; or (d) the country of nationality of the Sub-Consultants concerned, where the dispute involves a subcontract. <p>5. <u>Miscellaneous.</u> In any arbitration proceeding hereunder:</p> <ul style="list-style-type: none"> (a) proceedings shall, unless otherwise agreed by the Parties, be held in The Hague. (b) the English language shall be the official language for all purposes; and
	 

(c) the decision of the sole arbitrator or of a majority of the arbitrators (or of the third arbitrator if there is no such majority) shall be final and binding and shall be enforceable in any court of competent jurisdiction, and the Parties hereby waive any objections to or claims of immunity in respect of such enforcement.

(c) the decision of the sole arbitrator or of a majority of the arbitrators (or of the third arbitrator if there is no such majority) shall be final and binding and shall be enforceable in any court of competent jurisdiction, and the Parties hereby waive any objections to or claims of immunity in respect of such enforcement.



Annexure-2: Work Plan (Revised)



A handwritten signature in blue ink, appearing to read "J. M. J."

FORM 5A5
FIG 4.2: WORK PLAN (CONSTRUCTION SUPERVISION PHASE)

Team Leader / Sr. Bridge Engineer	Key Personnel										Duration	Defect Liability Period (12 months)								
	International					Local														
Sr. Contract Specialist	Sr. Foundation / Geotechnical Engineers	Sr. Hydraulic / R.T Engineers	Sr. Bridge Engineer	Sr. Material and Quality Control Engineer	Deputy Team Leader	Contract Engineer	Environmental Engineer	Social Impact Specialist	Quantity Surveyor	Resident Engineer	Material and Quality Control Engineer	Hydraulic / R.T Engineer	Bridge Engineer (2 nos.)	Foundation Engineer	Junior Engineer (2 nos.)	Task No.	Activity No.	Description of Activity	Activity Duration (In Months)	
Team Leader / Sr. Bridge Engineer	Sr. Contract Specialist	Sr. Foundation / Geotechnical Engineers	Sr. Hydraulic / R.T Engineers	Sr. Bridge Engineer	Sr. Material and Quality Control Engineer	Deputy Team Leader	Contract Engineer	Environmental Engineer	Social Impact Specialist	Quantity Surveyor	Resident Engineer	Material and Quality Control Engineer	Hydraulic / R.T Engineer	Bridge Engineer (2 nos.)	Foundation Engineer	Junior Engineer (2 nos.)			Construction Supervision Phase (49.33 months)	
Sr. Contract Specialist	Sr. Foundation / Geotechnical Engineers	Sr. Hydraulic / R.T Engineers	Sr. Bridge Engineer	Sr. Material and Quality Control Engineer	O & M Specialist	Deputy Team Leader	Contract Engineer	Environmental Engineer	Social Impact Specialist	Quantity Surveyor	Resident Engineer	Material and Quality Control Engineer	Hydraulic / R.T Engineer	Bridge Engineer (2 nos.)	Foundation Engineer	Junior Engineer (2 nos.)				1 2 3 4 5 6 7 8 9 10 11 12
Responsibilities																			1 2 3 4 5 6 7 8 9 10 11 12	
TASK GROUP I - MOBILIZATION AND PREPARATORY ACTIVITIES																				
P	S	S	P			101	1010	Mobilization and Preparatory Activities		1.00, AW										
P	S	S	S	S	S	102	1020	Study and Review Contract Documents and Other Relevant Reports		1.00										
P			P			103	1030	Review and Familiarization with Project Environmental Management Plan (EMP)		1.00										
P		S	P	P	S	104	1040	Review the Resettlement Action Plan (RAP) and its Implementation Status		1.00, AW										
P	S	S	S	S	S	105	1050	Review Shifting of Existing Utility Services Status		1.00, AW										
P	S	S	S	S	S	106	1060	Identify and Verify Accuracy of Survey Control Station		1.00, AW										
P	S	S	S	S	S	107	1070	Prepare Standard Formats for Progress Reports, Payment Certificates etc.		1.00										
TASK GROUP II - SUPERVISION OF CONSTRUCTION WORKS AND QUALITY CONTROL																				
P	P		S			201	2010	Assist in Issue of Order to Commence Works and Handing over of Work Site to the Contractor		0.50										
P	S	S	S	S	S	202	2020	Establish Quality Assurance and Preventive Supervision System		1.00										
P	P	S	S	S	S	203	2030	Review and Monitor Contractor's Mobilization Plan and Ensure Implementation		1.00, AW										
P		S		S		204	2040	Installation of Computer Aided Project Management System and Management Information System		1.50										
P	P	P		S	S	205	2050	Check and Approve Contractor's Setting out of Works		1.50, AW										
P	S	P		S	S	206	2060	Inspect and Approve Materials Proposed by Contractor for Incorporation in Works		1.00, AW										
P	S	S	S	S	S	207	2070	Review and Approve Contractor's Construction Methodology		2.00, AW										
P	P	P	P	S	P	208	2080	Supervision Construction Works and Stage Approval		49.50										
P	P	P	P	S	P	209	2090	Supervision Quality Control Measures		49.50										
P	S	P	S		P	210	2110	Carry out Tests on Soils, Material, Mixes for Compliances with Specifications and their Approval		46.00										
P	S	S	S	S	S	211	2110	Order Renewal / Rectification of Sub-standard Works and Unsatisfactory Materials		AW										
P	S	S	S	S	S	212	2120	Check and Approve Traffic and Safety Arrangements During Construction		48.00										
TASK GROUP III - CONTRACT MANAGEMENT AND COST CONTROL																				
P	P	P	P	S	S	301	3010	Make Proposals for required Modifications in Design and Construction Details to Suit Field Conditions and Issue Amendments on Approval		AW										
P	P	P	P	S	S	302	3020	When Required Carry out Design; Prepare Drawings and Technical Specifications as Supplementary Information		AW										
P	S	S	S	S	P	303	3030	Review and Approve Contractor's Work Program		1.00, AW										
P	S	S	S	S	S	304	3040	Review and Approval of Working Drawings		3.50, AW										
P	S	S	S	S	S	305	3050	Inspect Contractor's Plants, Machinery and Laboratory Equipments		49.00										
P	S	S	S	S	S	306	3060	Inspect Contractor's Housing and Facilities		49.00										
P	S	S	S	S	S	307	3070	Review / Approve Contractor's Key Personnel		3.00, AW										
P	P	S	S	S	S	308	3080	Check and Verify Validity of Contractor's all Insurances and Guarantees		1.00										
P	S	S	P	S	S	309	3090	Check and Verify Measurements of Works		49.00										
P	S	S	P	S	S	310	3100	Regular Review of Bill of Quantities and Advise Employer on Estimated Total Cost		48.00										
P	S	S	S	S	S	311	3110	Scrutinize and certify Interim and Final Payments		51.00										
S	P	S	S	S	S	312	3120	Review and Analyse Contractor's Claims including Extension of Time and Advise Project Director		AW										
P	P	S	S	S	S	313	3130	Prepare Engineer's Instruction and Variation Orders		AW										
S	P	S	S	S	S	314	3140	Advise / Assist in Disputes / DRE / Arbitration		AW										
P	S	S	S	S	S	315	3150	Advise / Assist the Project Director in Communication with Donor Agency		48.00										
P	S	S	S	S	S	316	3160	Advise Project Director for Coordination with other Related Local Authorities		49.00										
P	S	S	S	S	S	317	3170	Prepare and Assist Issue of Substantial Completion and Final Taking Over Certificate		1.50										
P						318	3180	Arrange Provision of Special Staff if so Required for Smooth Progress		AW										
TASK GROUP IV - MONITORING																				
P	S	S	S		S	401	4010	Evolvve Progress Monitoring System		1.00										
P	S	S	S		S	402	4020	Monitor Progress and Contractor's Work Plan		49.00										
P			S		S	403	4030	Organise Monthly Progress Review Meetings		49.00										
S			P		S	404	4040	Monitor Implementation of Environmental Mitigation Plan		5.00										
P	P					405	4050	Issue Notices for Slow Progress and other Issues		AW										

Legend :

Continuous Activity
Intermittent Activity (as and when required)

P Primary Responsibilities
S Secondary Responsibilities



FORM 5A5

FIG 4.2: WORK PLAN (CONSTRUCTION SUPERVISION PHASE)

Key Personnel		Duration																											
International		Local																											
Team Leader / Sr. Bridge Engineer	Sr. Contract Specialist																												
Sr. Foundation / Geotechnical Engineers	Sr. Hydraulic / R/T Engineers																												
Sr. Materials and Quality Control Engineer	Sr. Materials and Quality Control Engineer																												
Deputy Team Leader	Contract Engineer	Environmental Engineer	Social Impact Specialist	Quantity Surveyor	Resident Engineer	Material and Quality Control Engineer	Hydraulic / RT Engineer	Bridge Engineer (2 nos.)	Foundation Engineer	Junior Engineer (2 nos.)					Defect Liability Period (12 months)														
Responsibilities																													
Task No.		Activity No.		Description of Activity				Activity Duration (in Months)		Construction Supervision Phase (49.33 months)																			
1		2		3		4		5		6		7		8		9		10		11		12							
TASK GROUP V – DOCUMENTATION																													
P P		P		P		501	5010	Maintain Accurate Records of all Measurements and Bills	49.00	XXXXXXXXXXXXXXXXXXXX																			
S S S S P	S		P			502	5020	Maintain Accurate Records of all Quality Control Tests including Rejected Works	48.00	XXXXXXXXXXXXXXXXXXXX																			
P S		S		S		503	5030	Maintain Detailed Records of Contractor's Plants / Equipments	48.00	XXXXXXXXXXXXXXXXXXXX																			
P S S S	S		S			504	5040	Review, Approve and Submit "As-Built-Drawings"	3.00	XXXXXXXXXXXXXXXXXXXX																			
P		S				505	5050	Maintain Project Daily Site Diary	50.00	XXXXXXXXXXXXXXXXXXXX																			
TASK GROUP VI – SERVICES DURING DEFECT LIABILITY PERIOD																													
P		S				601	6010	Inspect Completed Works and Supervise Maintenance Works during Defect Liability Period	3.00	XXXXXXXXXXXXXXXXXXXX																			
P		S				602	6020	Assist in Final Taking Over of Works and Issue of Completion Certificate	0.50	XXXXXXXXXXXXXXXXXXXX																			
P S			S		S	603	6030	Issue Final Payment Certificate	0.50	XXXXXXXXXXXXXXXXXXXX																			
P S S S S		S				701	7010	Preparation and Submission of Mobilization and Inception Plan	-	XXXXXXXXXXXXXXXXXXXX																			
P S S S S	S	S S S S				702	7020	Preparation and Submission of Progress Report	-	XXXXXXXXXXXXXXXXXXXX																			
P S S S S	S	S S S S				703	7030	Preparation and Submission of Quarterly Report	-	XXXXXXXXXXXXXXXXXXXX																			
P S S S S	S	S S S				704	7040	Preparation and Submission of Project Completion Report	-	XXXXXXXXXXXXXXXXXXXX																			
Legend :																													
Continuous Activity																													
Intermittent Activity (as and when required)																													
As and when required																													
Primary Responsibilities																													
Secondary Responsibilities																													
Preparation and Submission of Mobilization and Inception Plan																													
Preparation and Submission of Project Completion Report																													



4 - 4

Annexure-3: Staffing Schedule of Key Personnel (Revised)

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FORM 5A-7



Annexure-4: Responsibilities of Key Professional (Addendum-2)



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Responsibilities of Key Professionals:

1. **Sr. Bridge Design Specialist** : No man month input of the Sr. Bridge Design Specialist was envisaged during the construction Supervision phase in the original consultancy contract. Based on the complexity of the structure and the change in the construction methodology from Precast to Cast-in-situ, the input of the Design Specialist becomes imperative in-order to monitor and guide the Construction Sequence and the erection sequence of the extra dosed cables including the stressing sequence of main bridge.
2. **Highway Engineer** : Due to the increase in the scope of work by manifold the inclusion of Highway Engineer became necessary as in the original supervision contract there was no position. In-order to ensure quality construction of the Approaches and the toll plaza the position was made inclusion.
3. **Junior Bridge Engineer** : Since the Construction methodology changed from Pre-casting to Cast-in-situ and it is envisaged that the works of superstructure to continue in multiple work fronts to complete the project as scheduled, the inclusion was made as additional.
4. **Junior Engineer (RT)** : Since the Scope of work for the Bank protection works including the casting and Dumping of CC blocks increased than the original scope of works. As the execution is expected to take place in multiple work fronts of Upstream and Downstream locations and the work also differed from the original scope, the inclusion of new position became mandatory.



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Annexure-5: Cost Estimates (Revised)



JL

FORM 5B2 : SUMMARY OF REVISED COSTS (ADDENDUM-02)

Design and Construction Supervision for Paita Bridge (Lebukhali Bridge) over the River Paita on Barisal - Patuakhali Road, Bangladesh

Item	Costs (As per Addendum 02)		
	US Dollar	BDT	Equivalent BDT
Design Phase (Design & Selection of Contractor Period)	356,763.93	20,303,770.00	
Construction-Supervision Phase (Construction & Defect-liability period)	2,008,674.32	77,610,670.00	
TOTAL costs (excluding VAT & IT)	2,365,438.25	97,914,440.00	285,966,780.88
VAT & IT			
VAT @15%		42,895,017.13	
IT		57,184,572.93	
Total for VAT & IT		100,079,590.06	
Total Amount (including VAT & IT)	2,365,438.25	197,994,030.06	386,046,370.94

Conversion Rate: 01 US\$=BDT 79.50 (As per Original Contract)



Jit

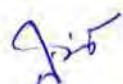
FORM 5B3 : BREAKDOWN OF COSTS BY ACTIVITY

Design and Construction Supervision for Paira Bridge (Lebukhali Bridge) over the River
Paira on Barishal - Patuakhali Road, Bangladesh

Group of Activities : Design Phase (Design & Selection of Contractor's Period)		Costs (As per Addendum 02)	
Sl. No.	Cost Component	US\$	BDT
1	Remuneration	285,125.00	8,369,150.00
2	Reimbursable Expenses	71,638.93	11,934,620.00
	Subtotals	356,763.93	20,303,770.00

US\$: United States Dollar

BDT: Bangladesh Taka

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FORM 5B4: BREAKDOWN OF REMUNERATION

**Design and Construction Supervision for Pairs Bridge (Lebukhali Bridge) over the River Pairs on Barishal - Patuakhali Road,
Bangladesh**

Design Phase (Design & Selection of Contractor's Period) (As per Addendum-2)

Sl. No.	Name	Position	Input	Staff-Month Rate		Input Staff months (Addendum-02)	Total Amount					
				US\$	BDT		US\$	BDT				
INTERNATIONAL STAFF												
Key Professionals												
1	Jurgen H.H Dorbecker	Team Leader / Sr. Bridge Engineer	Home	13,000.00	-	-	-	-				
			Field	13,000.00	-	8.80	114,400.00	-				
2	Suresh Nagesh	Sr. Contract Specialist	Home	10,000.00	-	-	-	-				
			Field	10,000.00	-	5.63	56,300.00	-				
3	Taranisien Naik	Sr. Bridge Design Specialist	Home	10,500.00	-	-	-	-				
			Field	10,500.00	-	7.25	76,125.00	-				
4	Maral Bedian Papazian/ Kanya Priya Dutta Roy	Sr. Foundation / Geotechnical Engineer	Home	10,000.00	-	-	-	-				
			Field	10,000.00	-	0.63	6,300.00	-				
5	Kim, Jong Gab	Sr. Hydraulic / R.T Engineer	Home	16,000.00	-	-	-	-				
			Field	16,000.00	-	2.00	32,000.00	-				
Sub Total						24.31	285,125.00	-				
LOCAL STAFF												
Key Professionals												
6	Md. Zohrul Islam/ Sheikh Sukuruzzaman	Deputy Team Leader	Home	-	200,000.00	-	-	-				
			Field	-	200,000.00	15.57	-	3,114,000.00				
7	Md. Nurul Islam	Contract Engineer	Home	-	140,000.00	-	-	-				
			Field	-	140,000.00	7.50	-	1,050,000.00				
8	M A Momin Khondaker	Environmental Engineer	Home	-	100,000.00	-	-	-				
			Field	-	100,000.00	5.00	-	500,000.00				
9	Mustafa Kamal	Electrical Engineer	Home	-	130,000.00	-	-	-				
			Field	-	130,000.00	1.50	-	195,000.00				
10	Humayun Kabir	Social Impact Specialist	Home	-	130,000.00	-	-	-				
			Field	-	130,000.00	5.00	-	650,000.00				
11	Md. Iqbal Hossain	Quantity Surveyor	Home	-	80,000.00	-	-	-				
			Field	-	80,000.00	11.00	-	880,000.00				
12	S.M. Azizul Hoque	Hydraulic / R.T Engineer	Home	-	140,000.00	-	-	-				
			Field	-	140,000.00	2.00	-	280,000.00				
13	Mohammad Shahajahan/ Mohammad Ali	Highway Design Engineer	Home	-	140,000.00	-	-	-				
			Field	-	140,000.00	3.00	-	420,000.00				
14	Prodip Kumar Saha/ Manik Lal Mandal	Structural Design Engineer	Home	-	140,000.00	-	-	-				
			Field	-	140,000.00	4.10	-	574,000.00				
15	Md. Tajuddin	Foundation / Geotechnical Engineer	Home	-	145,000.00	-	-	-				
			Field	-	145,000.00	4.87	-	706,150.00				
Sub Total						59.54	-	8,369,150.00				
TOTAL CARRIED TO SUMMARY						83.85	285,125.00	8,369,150.00				

US\$: United States Dollar

BDT: Bangladesh Taka



FORM 5B5 : BREAKDOWN OF REIMBURSABLE EXPENSES

Design and Construction Supervision for Paira Bridge (Lebukhali Bridge) over the River Paira on Barishal - Patuakhali Road, Bangladesh

a. Reimbursable Expenses in Design Phase (Design & Selection of Contractor's period) (International) (As per Addendum -02)

Sl. No.	Description	Unit	Unit Cost		Total Quantity (As per Addendum -2)	Total Amount	
			US\$	BDT		US\$	BDT
1	Residential accommodation for long term expatriate personnel	Month	1,250.00	-	9.50	11,875.00	-
2	Setting of Team Leader's house	LS	2,500.00	-	1.00	2,500.00	-
3	Per Diem for short-term expatriate personnel	Day	100.00	-	484.00	48,400.00	-
4	International Travel Cost				-	-	-
	Delhi - Dhaka - Delhi (Original Design and Selection of Contractor's period)	RT	500.00	-	5.00	1,807.81	-
	Delhi - Dhaka - Delhi (Additional Selection of Contractor's period)	RT	350.00	-	4.00	1,400.00	-
	Korea - Dhaka - Korea (Original Design and Selection of Contractor period)	RT	1,600.00	-	2.00	2,656.12	-
	Korea - Dhaka - Korea & others (Additional Selection of Contractor's period)	RT	1,600.00	-	1.00	1,600.00	-
5	Miscellaneous Expenses for Travel (visa, local transport, insurance, etc)	RT	200.00	-	7.00	1,400.00	-
	TOTAL COSTS				-	71,638.93	-

US\$: United States Dollar

BDT: Bangladesh Taka



FORM 5B5 : BREAKDOWN OF REIMBURSABLE EXPENSES

Design and Construction Supervision for Paira Bridge (Lebukhali Bridge) over the River Paira on Barishal - Patuakhali Road, Bangladesh

b. Reimbursable Expenses in Design Phase (Design & Selection of Contractor's Period) (National) (As per Addendum 02)

Sl. No.	Description	Unit	Unit Cost		Total Quantity (Addendum-02)	Total Amount	
			US\$	BDT		US\$	BDT
1	Out of pocket expenses for National staff and the Team Leader	Day	-	2,000.00	95.00	-	190,000.00
2	Communication Cost, telecommunication cost including cellular phone, e-mail, fax, postage, courier etc	Month	-	15,000.00	25.00	-	375,000.00
3	Drafting, Reproduction of Reports				-	-	-
	i) Inception Report	Copy	-	2,000.00	10.00	-	20,000.00
	ii) Progress Report (Monthly)	Copy	-	300.00	41.00	-	12,300.00
	iii) Hydrology and Morphology Study Report	Copy	-	2,000.00	7.00	-	14,000.00
	iv) Design Report and Drawings	Set	-	20,000.00	9.00	-	180,000.00
	v) Draft Tender Documents	Set	-	5,000.00	5.00	-	25,000.00
	vi) Final Tender Documents	Set	-	5,000.00	30.00	-	150,000.00
	vii) Land acquisition plan	Set	-	7,000.00	10.00	-	70,000.00
	viii) Environmental Management Plan	Set	-	5,000.00	7.00	-	35,000.00
	ix) Social Action Plan	Set	-	5,000.00	7.00	-	35,000.00
	x) Quarterly Report	Set	-	2,500.00	-	-	-
	xi) Project Completion Report	Set	-	10,000.00	-	-	-
4	Rental office accommodation including all furniture, equipment software, consumables, utility charges, security, etc (Original Design and Selection of Contractor's period)	Month	-	200,000.00	6.00	-	1,200,000.00
1	Rental office accommodation (Proposed Additional Selection of Contractor's period)	Month	-	35,000.00	16.00	-	560,000.00
5	Other transportation				-	-	-
	Vehicles on rental basis including operation and maintenance	Veh.Month	-	80,000.00	58.00	-	4,640,000.00
6	Survey / study / investigation				-	-	-
	i) Topographic survey	LS	-	120,000.00	1.00	-	120,000.00
	ii) Geotechnical investigation	LS	-	950,000.00	1.00	-	950,000.00
	iii) Hydrological study / survey	LS	-	150,000.00	1.00	-	150,000.00
	iv) Morphological study / survey	LS	-	200,000.00	1.00	-	200,000.00
	v) Environmental study / survey	LS	-	100,000.00	1.00	-	100,000.00
	vi) Resettlement / social survey	LS	-	150,000.00	1.00	-	150,000.00
7	Support Staff				-	-	-
	i) Office Manager / Secretary	Month	-	30,000.00	24.67	-	740,100.00
	ii) Accountant	Month	-	30,000.00	12.00	-	360,000.00
	iii) Computer Operator	Month	-	25,000.00	21.26	-	531,500.00
	iv) (a) CAD Operator-1	Month	-	35,000.00	6.00	-	210,000.00
	iv) (b) CAD Operator-2	Month	-	35,000.00	8.00	-	280,000.00
	v) Photocopy Machine Operator	Month	-	12,000.00	17.03	-	204,360.00
	vi) (a) Office Assistant, Messenger, etc-1	Month	-	12,000.00	21.03	-	252,360.00
	vi) (b) Office Assistant, Messenger, etc-2	Month	-	12,000.00	7.50	-	90,000.00
	vii) Laboratory Technician	Month	-	30,000.00	3.00	-	90,000.00
	TOTAL COSTS						11,934,620.00

US\$: United States Dollar
BDT: Bangladesh Taka



FORM 5B3 : BREAKDOWN OF COSTS BY ACTIVITY

Design and Construction Supervision for Paira Bridge (Lebukhali Bridge) over the River Paira on Barishal - Patuakhali Road, Bangladesh

Group of Activities : Construction Supervision Phase (As per Contract)		Costs (Addendum 02)	
Sl. No.	Cost Component	US\$	BDT
1	Remuneration	1,686,110.00	49,658,450.00
2	Reimbursable Expenses	322,564.32	27,952,220.00
	Subtotals	2,008,674.32	77,610,670.00

US\$: United States Dollar
BDT: Bangladesh Taka



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FORM 5B4: BREAKDOWN OF REMUNERATION

Design and Construction Supervision for Pairs Bridge (Lebukhali Bridge) over the River Pairs on Barishal - Patuakhali Road, Bangladesh

Construction Supervision Phase

Sl. No.	Name	Position		Unit Cost		Total Quantity (Addendum 02)	Total Amount					
				US\$	BDT		US\$	BDT				
INTERNATIONAL STAFF												
Key Professionals												
1	Jurgen H.H Dorbecker/ Alexander Gerogiev/ B.C. Dinesh	Team Leader / Sr. Bridge Engineer	Home	13,000.00	-	-	-	-				
2	Suresh Nagesh / Asit Baran Biswas	Sr. Contract Specialist	Home	11,000.00	-	-	-	-				
3	Swapan Kumar Bagui	Sr. Foundation / Geotechnical Engineer	Home	10,000.00	-	-	-	-				
4	Kim, Jong Gab/ Tapas K. Das	Sr. Hydraulic / R T Engineer	Home	16,000.00	-	-	-	-				
5	Kim, Hyun Kon/ B.C. Dinesh	Sr. Bridge Engineer	Home	17,000.00	-	-	-	-				
5A	B.C. Dinesh / V. Libunao Hamlig	Sr. Bridge Engineer	Home	11,000.00	-	-	-	-				
6	Shaik Asif Ahmed / Rajiv Kumar	Sr. Material and Quality Control Engineer	Home	8,000.00	-	-	-	-				
7	D Venkata Rao	Sr. Bridge Design Specialist	Home	10,500.00	-	1.00	10,500.00	-				
8	Gautam Chattopadhyay	O & M Specialist	Home	8,000.00	-	2.00	21,000.00	-				
						148.61	1,686,110.00	-				
Sub Total												
LOCAL STAFF												
Key Professionals												
9	Md. Zohrul Islam/ Sheikh Sukuruzzaman/ Mohir Uddin Ahmed	Deputy Team Leader	Home	-	210,000.00	-	-	-				
			Field	-	210,000.00	38.77	-	8,141,700.00				
10	Md. Nurul Islam/ Chowdhury Ziaur Rasul/ Arbinda Mandal/ Kali Kanta Roy	Contract Engineer	Home	-	150,000.00	-	-	-				
			Field	-	150,000.00	37.11	-	5,566,500.00				
11	M A Momin Khondaker/ Shahzad Khan	Environmental Engineer	Home	-	100,000.00	-	-	-				
			Field	-	100,000.00	11.46	-	1,146,000.00				
12	Mustafa Kamal	Electrical Engineer	Home	-	150,000.00	-	-	-				
			Field	-	150,000.00	6.00	-	900,000.00				
13	Humayun Kabir	Social Impact Specialist	Home	-	150,000.00	-	-	-				
			Field	-	150,000.00	9.00	-	1,350,000.00				
14	Md. Iqbal Hossain	Quantity Surveyor	Home	-	90,000.00	-	-	-				
			Field	-	90,000.00	45.17	-	4,065,300.00				
15	Mohammed Fazlur Rahman/ Md. Shafiqul Islam/ Monjil Kumar Sahar Benjir Ahmad	Resident Engineer	Home	-	100,000.00	-	-	-				
			Field	-	100,000.00	44.10	-	4,410,000.00				
16	Shahidur Rahman Joarder/ Md. Sadigul Islam/ Ranjit	Material and Quality Control Engineer	Home	-	85,000.00	-	-	-				
			Field	-	85,000.00	32.56	-	2,767,600.00				
17	AZM Nurul Nabi Khan/ Md. Akhtar Husain/ Harunur Rashid	Hydraulic / R T Engineer	Home	-	150,000.00	-	-	-				
			Field	-	150,000.00	33.87	-	5,095,500.00				
18	Md. Masudur Rahman/ Md. Rafiqul Alam	Bridge Engineer - 1	Home	-	75,000.00	-	-	-				
			Field	-	75,000.00	45.52	-	3,414,000.00				
19	Md. Ataur Rahman/ Shom Nath Pal	Bridge Engineer - 2	Home	-	75,000.00	-	-	-				
			Field	-	75,000.00	33.47	-	2,510,250.00				
20	Md. Omar Faruq	Junior Bridge Engineer	Home	-	75,000.00	-	-	-				
			Field	-	75,000.00	14.00	-	1,050,000.00				
21	S.M. Masoodur Rahman	Foundation Engineer	Home	-	160,000.00	-	-	-				
			Field	-	160,000.00	6.85	-	1,064,000.00				
22	Md. Rahman	Highway Engineer	Home	-	160,000.00	-	-	-				
			Field	-	160,000.00	14.36	-	2,297,600.00				
23	Kamal Hossain/ Md. Faridul Alam/ Md. Omar Faruq	Junior Engineer - 1	Home	-	60,000.00	-	-	-				
			Field	-	60,000.00	37.00	-	2,220,000.00				
24	Md. Shamsul Haque/ Md. Abdul Barek	Junior Engineer - 2	Home	-	60,000.00	-	-	-				
			Field	-	60,000.00	47.00	-	2,820,000.00				
25	Shariful Islam	Junior Engineer (RT)	Home	-	60,000.00	-	-	-				
			Field	-	60,000.00	14.00	-	840,000.00				
	Sub Total					470.14	-	49,658,450.00				
	TOTAL CARRIED TO SUMMARY					618.75	1,686,110.00	49,658,450.00				

USS: United States Dollar
BDT: Bangladesh Taka



FORM 5B5 : BREAKDOWN OF REIMBURSABLE EXPENSES

Design and Construction Supervision for Paita Bridge (Lebukhali Bridge) over the River Paita on Barishal - Patuakhali Road, Bangladesh

a. Reimbursable Expenses in Construction Supervision Phase (International)

Sl. No.	Description	Unit	Unit Cost		Total Quantity (Addendum 02)	Total Amount	
			US\$	BDT		US\$	BDT
1	Residential accommodation for long term expatriate personnel	Month	1,250.00	-	5.44	6,800.00	-
2	Per Diem for short-term expatriate personnel	Day	100.00	-	276.00	27,600.00	-
3	International Travel Cost						
	Delhi - Dhaka - Delhi	RT	500.00	-	58.50	28,392.00	-
	Korea - Dhaka - Korea	RT	1,600.00	-	-	-	-
4	Miscellaneous Expenses for Travel (visa, local transport, insurance, etc)	RT	200.00	-	41.00	8,200.00	-
5	Provisional Sum						
	Arrangement of Training /Study Tour - (Previously it was considered in 'b. Reimbursable expenses in construction supervision phase (National)'. As per 1st RDPP, payment will be made directly through KFAED (DPA). So the provisional fund of 20,000,000.00, i.e., equivalent USD 251,572.32 *	LS				251,572.32	
	TOTAL COSTS					322,564.32	-

US\$: United States Dollar

BDT: Bangladesh Taka

* 50% advance payment shall be made for conducting training programme.



FORM 5B5 : BREAKDOWN OF REIMBURSABLE EXPENSES

Design and Construction Supervision for Paira Bridge (Lebukhali Bridge) over the River Paira on Barishal - Patuakhali Road, Bangladesh

a. Reimbursable Expenses in Construction Supervision Phase (International)

Sl. No.	Description	Unit	Unit Cost		Total Quantity (Addendum 02)	Total Amount	
			US\$	BDT		US\$	BDT
1	Residential accommodation for long term expatriate personnel	Month	1,250.00	-	5.44	6,800.00	-
2	Per Diem for short-term expatriate personnel	Day	100.00	-	276.00	27,600.00	-
3	International Travel Cost						
	Delhi - Dhaka - Delhi	RT	500.00	-	58.50	28,392.00	-
	Korea - Dhaka - Korea	RT	1,600.00	-	-	-	-
4	Miscellaneous Expenses for Travel (visa, local transport, insurance, etc)	RT	200.00	-	41.00	8,200.00	-
5	Provisional Sum						
	Arrangement of Training /Study Tour - (Previously it was considered in 'b. Reimbursable expenses in construction supervision phase (National)'. As per 1st RDPP, payment will be made directly through KFAED (DPA). So the provisional fund of 20,000,000.00, i.e., equivalent USD 251,572.32 **				1.00	251,572.32	
	TOTAL COSTS					322,564.32	-

US\$: United States Dollar

BDT: Bangladesh Taka

** Training fund shall be utilised in the following mode:

50% advance payment shall be made for conducting training programme.



FORM 5B5 : BREAKDOWN OF REIMBURSABLE EXPENSES

**Design and Construction Supervision for Paira Bridge (Lebukhali Bridge) over the River Paira on Barishal - Patuakhali Road,
Bangladesh**

b. Reimbursable Expenses in Construction Supervision Phase (National)

Sl. No.	Description	Unit	Unit Cost		Total Quantity (Addendum 02)	Total Amount	
			US\$	BDT		US\$	BDT
1	Per Diem for National Staff and Long Term expatriate staff	Day	-	2,000.00	466.00	-	932,000.00
2	Communication Cost, telecommunication cost including cellular phone, e-mail, fax, postage, courier etc	Month	-	21,000.00	49.40	-	1,037,400.00
3	Drafting, Reproduction of Reports				-	-	-
	i) Progress Report (Monthly)	Copy	-	400.00	235.00	-	94,000.00
	ii) Progress Report (Quarterly)	Copy	-	2,500.00	86.00	-	215,000.00
	iii) Resettlement Completion Report	Copy	-	5,000.00	10.00	-	50,000.00
	iv) Project Completion Report	Copy	-	15,000.00	10.00	-	150,000.00
4	Dhaka Liasion Office	Month	-	35,000.00	49.40	-	1,729,000.00
5	Support Staff				-	-	-
	Team Leader's Dhaka Office (Liaison office) max 150 sqm area				-	-	-
	i) Office Manager / Secretary	Month	-	32,000.00	49.40	-	1,580,800.00
	for Field Office				-	-	-
	i) Office Manager / Secretary	Month	-	30,000.00	47.27	-	1,418,100.00
	ii) Computer Operator	Month	-	30,000.00	47.00	-	1,410,000.00
	iii) CAD Operator	Month	-	38,000.00	47.00	-	1,786,000.00
	iv) Photocopy Machine Operator	Month	-	12,500.00	47.00	-	587,500.00
	v) Office Boy, Messenger, etc-(Total 02 nos. person)	Month	-	12,500.00	122.84	-	1,535,500.00
	vi) SAE / Site Supervisors-	Month	-	40,000.00	274.10	-	10,964,000.00
	vii) Surveyor	Month	-	36,000.00	63.00	-	2,268,000.00
	viii) Laboratory Technician	Month	-	36,000.00	60.97	-	2,194,920.00
6	Provisional Sum						
	Arrangement of training / study tour		-	20,000,000.00			
	TOTAL COSTS					-	27,952,220.00

US\$: United States Dollar
BDT: Bangladesh Taka



Attachment-1: Approval of Addendum-2



Jint

অতি জরুরি
গোপনীয়

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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নম্বর ৩৫.০০.০০০০.০২৯.০৭.০২৫.১৯-৫৬৯

তারিখ: ১৮ আগস্ট ১৪২৬ বঙ্গাব্দ
০৩ অক্টোবর ২০১৯ খ্রিস্টাব্দ

বিষয়: সড়ক ও জনপথ অধিদপ্তরের আওতায় কুয়েত ফান্ডের সহায়তায় পাইরা সেতু (লেবুখালি সেতু) নির্মাণ প্রকল্পের “Consultancy Service for Design and Construction Supervision of Paire Bridge (Labukhali Bridge) over the River Paire on Barisal-Putuakhali Road” এর (Addendum-02). প্রস্তাব।

সূত্র: প্রধান প্রকৌশলী, সওজ এর স্মারক নং-৩৪৬৭ প্রঃ প্রঃ তারিখ: ৩০.৬.২০১৯ খ্রি।

উপর্যুক্ত বিষয় ও সূত্রস্থ পত্রের পরিপ্রেক্ষিতে নির্দেশক্রমে জানানো যাচ্ছে যে, সরকারি ক্রয় সংক্রান্ত মন্ত্রিসভা কমিটির অনুষ্ঠিত সভার আলোচনা এবং সড়ক পরিবহন ও মহাসড়ক বিভাগের প্রস্তাবের আলোকে সড়ক ও জনপথ অধিদপ্তরের আওতায় বাস্তবায়নাধীন বরিখাল-পটুয়াখালী মহাসড়কে পাইরা নদীর উপর পাইরা সেতু (লেবুখালি সেতু) নির্মাণ প্রকল্পের অর্থভূক্ত “Consultancy Service for Design and Construction Supervision of Paire Bridge (Labukhali Bridge) over the river Paire on Barisal-Putuakhali Road” শীর্ষক প্রকল্পের সেবার জন্য নিয়োজিত প্রতিষ্ঠান Intercontinental Consultants and Technocrats Pvt. Ltd and Kunhwa Engineering and Consulting Co. Ltd, Dr. Nabeel Abdul-Raheem Consultants, Engineering and Planning Consultants Ltd Joint Venture এর অনুকূলে সম্পাদিত ভাট্ট ও আয়করসহ মূল চুক্তিশুল্য ২৫,৯৭,২৯,৭৫০.০০ (পাঁচিশ কোটি সাতান্ধাহাই লক্ষ উন্নিশ হাজার সাতশত পঞ্চাশ) টাকার সঙ্গে ডেরিভেশন বাবদ ১২,৬৩,১৬,৬২০.৯৪ টাকা যোগ করে সর্বমোট ৩৮,৬০,৪৬,৩৭০.৯৪ (আঠাত্তিশ কোটি ষাট লক্ষ ছেকালিশ হাজার তিনশত সতের দশমিক নয়-চার) [মার্কিন ডলার ২৩,৬৫,৪৩৮.২৫ এর সমপরিমাণ বাংলাদেশী টাকায় ৩৮,৮০,৫২,৩৪০.৮৭৫+ বাংলাদেশি টাকায় ৯,৭৯,১৪,৪৪০.০০+ভ্যাট বাবদ টাকা ৪,২৮,৯৫,০১৭.১৩ + আয়কর বাবদ টাকা ৫,১১,৮৪,৫৭২.৯৩] টাকার সংশোধিত চুক্তির সম্পাদনের প্রস্তাবটি গত ১৮.৯.২০১৯ তারিখের সরকারি ক্রয় সংক্রান্ত মন্ত্রিসভা কমিটির সভায় সর্বসম্মতিক্রমে সুপারিশ করা হয়। তবে বর্ধিত সময় ও ব্যয়ের ঘণ্টে প্রকল্পের অবশিষ্ট কাজ সম্পাদনে প্রকল্প পরিচালক সচেষ্ট থাকবে”।

০২. উপর্যুক্ত সিদ্ধান্ত যথাযথ কর্তৃপক্ষ কর্তৃক অনুমোদিত হয়েছে।

০৩. উক্ত সরকারি সিদ্ধান্ত বাস্তবায়ন কার্য সম্পন্ন না হওয়া পর্যন্ত বাস্তবায়নের অগ্রগতি প্রতিবেদন প্রতি মাসের শেষ কার্যদিবসে একবার এ বিভাগে প্রেরণ করার জন্য অনুরোধ করা হল।


(সুলতানা ইয়াসমান)
উপসচিব

ফোন: ৯৫৭৫৫১৪
sasdfdp@rthd.gov.bd

প্রধান প্রকৌশলী
সড়ক ও জনপথ অধিদপ্তর
সড়ক ভবন, তেজগাঁও, ঢাকা

অনুলিপি:

০১. মাননীয় মন্ত্রীর একান্ত সচিব, সড়ক পরিবহন ও সেতু মন্ত্রণালয়, ঢাকা
০২. প্রকল্প পরিচালক, পাইরা সেতু (লেবুখালি সেতু) নির্মাণ প্রকল্প, সড়ক গবেষণাগার, পাইকপাড়া, মিরপুর, ঢাকা
০৩. সচিব মহোদয়ের একান্ত সচিব, সড়ক পরিবহন ও মহাসড়ক বিভাগ, সড়ক পরিবহন ও সেতু মন্ত্রণালয়

Attachment-2: Authorization Letter(s) for Addendum-2 Contract signing



A handwritten signature consisting of the initials "J. S." followed by a stylized surname.



서울특별시 강남구 테헤란로 317 (역삼동)

동훈타워 12층

[별지 제41호서식]

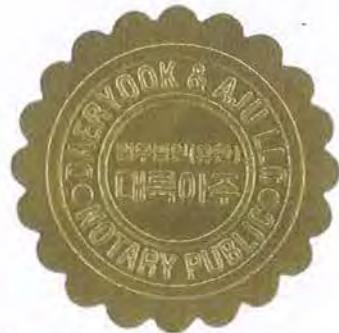
(전화) 02-3016-9508

(팩스) 02-564-0278

Registered No. 2019 - 1191

NOTARIAL CERTIFICATE

DAERYOOK&AJU LLC



12F., Donghoon Tower
317, Teheran-ro, Gangnam-gu, Seoul



법무법인(유한) 대륙아주



210mm X 297mm
보존용지(1종) 70g/m²



KUNHWA ENGINEERING & CONSULTING CO., LTD.

SEOUL Office | 321, Teheran Rd., Gangnam-gu, Seoul, KOREA

38-25, Samsung2-dong, Gangnam-gu, Seoul, KOREA

ANYANG Office | 38, Heungan-daero 427 beon-gil, Dong-an-gu, Anyang-si, Gyeonggi-do, KOREA

Email : overseas@kunhwaeng.co.kr | Tel : +82-2-6938-7509 | Fax : +82-2-6938-7509



Oct. 07, 2019

POWER OF ATTORNEY

This is to certify that the Power of Attorney of Kunhwa Engineering & Consulting Co., Ltd. for the under mentioned project is true.

**Project Name: Design and Construction Supervision of Paira Bridge (Lebukhali Bridge)
over the River Paira on Barishal – Patuakhali Road**

Attachments: 2 Power of Attorney



Jin Sang



KUNHWA ENGINEERING & CONSULTING CO., LTD.

SEOUL Office | 321, Teheran Rd, Gangnam-gu, Seoul, KOREA

38-25, Samsung2-dong, Gangnam-gu, Seoul, KOREA

ANYANG Office | 38, Heungan-daero 427 beon-gil, Dong-an-gu, Anyang-si, Gyeonggi-do, KOREA

Email : overseas@kunhwaeng.co.kr | Tel : +82-2-6938-7509 | Fax : +82-2-541-3295



October 7th 2019

Ref. No.: POA-2019-044

Mr. Noor-E-Alam
Project Director (SE, CC), RHD
Paira Bridge (Lebukhali Bridge) Construction Project
BRRL, Paikpara, Mirpur, Dhaka-1216

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That we, Kunhwa Engineering & Consulting Co., Ltd. (hereinafter referred to as "KUNHWA"), a duly organized and existing under the laws of Republic of Korea, having its principal office at 38, Heungan-daero 427 beon-gil, Dong-an-gu, Anyang-si, Gyeonggi-do, Korea, do hereby appoint Mr. Park, Jeong Bae (Passport Number: M80612388), Sr. Managing Director of KUNHWA, as our true and lawful representative to do in our name on our behalf, all such acts, deeds required, and sign the required documents in connection with the Consulting Services for "Design and Construction Supervision of Paira Bridge (Lebukhali Bridge) over the River Paira on Barishal-Patuakhali Road". This Power of Attorney shall be effective from the date hereof and shall remain effective until revoked by resolution of the KUNHWA.



IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney on the October 7th 2019.

For and on behalf of
Kunhwa Engineering & Consulting Co., Ltd.



Choi, Jin Sang
President





KUNHWA ENGINEERING & CONSULTING CO., LTD.

SEOUL Office | 321, Teheran Rd., Gangnam-gu, Seoul, KOREA

38-25, Samsung2-dong, Gangnam-gu, Seoul, KOREA

ANYANG Office | 38, Heungang-daero 427 beon-gil, Dong-an-gu, Anyang-si, Gyeonggi-do, KOREA

Email : overseas@kunhwaeng.co.kr | Tel : +82-2-6938-7509 | Fax : +82-2-541-3295

October 7th 2019

Ref. No.: KH-BAN-POA-2019-065



Mr. Noor-E-Alam

Project Director (SE, CC), RHD

Paira Bridge (Lebukhali Bridge) Construction Project

BRRL, Paikpara, Mirpur, Dhaka-1216

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That we, Kunhwa Engineering & Consulting Co., Ltd. (hereinafter referred to as "KUNHWA"), a duly organized and existing under the laws of Republic of Korea, having its principal office at 38, Heungang-daero 427 beon-gil, Dong-an-gu, Anyang-si, Gyeonggi-do, Korea, do hereby appoint Mr. Prashant Kapila, Chief Operating Officer of Intercontinental Consultants and Technocrats Pvt. Ltd., as our true and lawful representative to do in our name on our behalf, to sign the Revised Contract including Addendum No. 2 with the Client in connection with the Consulting Services for "Design and Construction Supervision of Paira Bridge (Lebukhali Bridge) over the River Paira on Barishal-Patuakhali Road". This Power of Attorney shall be effective from the date hereof and shall remain effective until October 13th, 2019.



IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney on the
October 7th 2019.

For and on behalf of
Kunhwa Engineering & Consulting Co., Ltd.

Park, Jeong Bae
Sr. Managing Director



Borderless Engineers for Sharing Progress



서울특별시 강남구 테헤란로 317 (역삼동)
동훈타워 12층
[별지 제43호서식]

(전화) 02-3016-9508
(팩스) 02-564-0278

등부 2019년 제 1191호

Registered No. 2019-1191

인 증

NOTARIAL CERTIFICATE

위 위임장-----에
기재된 주식회사 건화 대표이사 최진상

의 대리인 박상혁 -----은
본 공증인의 면전에서 위 본인이 ---
기명날인한 것임을 확인하였다.

Park, Sang Hyuk-----

attorney-in-fact of
Choi, Jin Sang / President-----
Kunhwa Engineering & Consulting--
Co., Ltd.,-----

appeared before me and admitted
said principal's subscription to
the attached POWER OF ATTORNEY.

2019년 10월 07일
이 사무소에서 위 인증한다.

This is hereby attested on this
7th day of Oct. 2019 at this office.

공증사무소 명칭

Name of the office

법무법인(유한) 대륙아주

DAERYOOK&AJU LLC

소 속 서울중앙지방검찰청

Belong to Seoul Central
District Prosecutor's Office

소재지표시

서울특별시 강남구 테헤란로 317 (역삼동)Address of the office

동훈타워 12층

12F., Donghoon Tower
317, Teheran-ro, Gangnam-gu, Seoul

공증인 공증담당변호사

여 상 조

본 사무소는 인가번호 제16호에 의거하여
2015년 02월 07일 법무부 장관으로부터
공증인 업무를 행할 것을 인가 받았다.

Signature of the Notary Public

YEO SANG JO

YEON SANG JO
This office has been authorized by the
Minister of Justice, the Republic of
Korea, to act as Notary Public Since
7, Feb. 2015 Under Law No.16.



법무법인(유한) 대륙아주

210mm X 297mm
보존용지(1종) 70g/m²



DR. NABEEL ABDUL-RAHEEM CONSULTANTS
مكتب الدكتور / نبيل جعفر عبد الرحيم للاستشارات الهندسية

POWER OF ATTORNEY

Know all men by these presents, we, M/s NARCO Consultants with its registered Address at, P.O. Box 38351 Dahia Abdulla Al-Salem, Zip Code 72254 – State of Kuwait do hereby authorize Mr. Prashant Kapila, who is presently employed with Intercontinental Consultants and Technocrats Pvt. Ltd., with their registered office at A-8, Green Park, New Delhi-110016, India and holding the position of “Chief Operating Officer”, as our attorney to do in our name and on behalf of Joint Venture Group consisting of Intercontinental Consultants and Technocrats Pvt. Ltd., India (Lead Partner), M/s Kunhwa Engineering & Consulting Co. Ltd., Korea (Joint Venture Partner), M/s Dr. Nabeel Abdul-Raheem Consultants, Kuwait (Joint Venture Partner) and M/s Engineering & Planning Consultants Ltd. Bangladesh (Joint Venture Partner), all such acts, deeds and things necessary in connection with or incidental to our Contract for **“Consulting Services for Design and Construction Supervision of Paira Bridge (Lebukhali Bridge) over the River Paira on Barisal – Patuakhli Road, Bangladesh”**, to sign the Revised Contract including Addendum No. 2 with the Client namely **“Ministry of Road Transport and Bridges, Roads and Highways Department, Dhaka, Bangladesh”**, representing us in all matters before the Client in connection with our Contract for the said project.

We, hereby, agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall always be deemed to have been done by us.

Date: 1st October 2019



Dr. Nabeel Abdul Raheem

Chairman and Managing Director

NARCO Consultants, P.O. Box 38351 Dahia Abdulla
Al-Salem, Zip Code 72254 – State of Kuwait



NARCO
Dr. Nabeel Abdul-Raheem Consultants
المكتبor نبيل جعفر عبد الرحيم
الاستشارات الهندسية



P.O.Box 38351 Dahia Abdulla Al-Salem
State of Kuwait 72254
Tel. : (+965) 22470852
Fax : (+965) 22470853
E-mail : Dr.Nabeel@narco-kw.com
Website : www.narco-kw.com

تصديق اتحاد المكاتب الهندسية والدور الاستشارية الكويتية على صحة
توقيع المهندس: نبيل جعفر سالم سليمان

دون آية مسئولية من قبل الاتحاد على ما تضمنته الوثيقة



م. نازك الصانع
مكتب رئيس مجلس إدارة اتحاد المكاتب
الهندسية والدور الاستشارية الكويتية



جعفر



مركز الديوان للترجمة والطباعة والتصوير

Al-Diwan Translation Center

مترجمون محلفون ومعتمدون من قبل جميع الوزارات والسفارات في الدولة وبكافئ اللغات العالمية
SWORN TRANSLATORS SPECIALIZED IN ALL APPROVED LANGUAGES AUTHORIZED BY ALL EMBASSIES & MINISTRIES

Seal: Attested by Federation of Kuwaiti Engineering Offices & Consultant Houses

Signature: Eng. Nabeel Jaffar Abdulraheem

With no liability upon the Federation as to document content

Sign and seal: Eng. Mazen Al-Sane, Vice chairman of Federation of Kuwaiti Engineering Offices & Consultant Houses

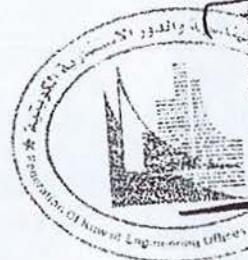
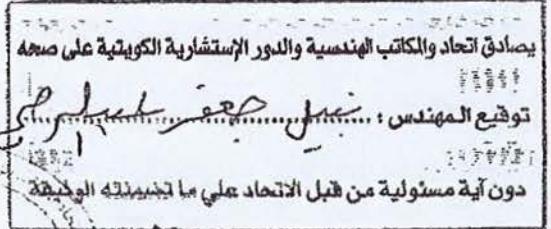


Signature

Signature



حولي	ج. الزهراء	ج. الشامية	ج. الخالدية	ج. النزهة	كيفان	المرقاب	ج. غرناطة
24864644	22462020	24816060	22531818	24926388	22598966	25240565	22644644



نعم، أنا أذن بالصياغة
للسيد نبيل جعفر سالم العمير
مكتب رئيس مجلس إدارة اتحاد المكاتب
الهندسية والدور الاستشارية الكويتية



Joint
venture



ENGINEERING & PLANNING CONSULTANTS LTD.

7/4, BLOCK-A, LALMATIA, G.P.O. BOX NO.-3815, DHAKA-1207, BANGLADESH

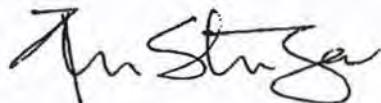
PHONE : 58156753, 9113772
9114631, 9129904
FAX : 880-2-58152405
E-mail : epc@epc-bd.com
admin@epc-bd.com
Website : www.epc-consultants.org

Dated: 03 October 2019

Letter of Authorization

Contract (Revised-Addendum-2) for Consultancy Services for Design and Construction Supervision of the Paira Bridge (Lebukhali Bridge) over the River Paira on Barishal-Patuakhali Road, Bangladesh.

Mr. Md. Abdul Wadud Bhuiyan, Director of EPC is hereby authorized to initial and sign the said Contract Documents and any other documents related thereto, for and on behalf of EPC and as member of the Joint Venture.

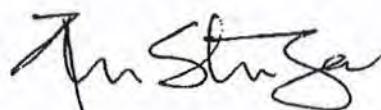


Muhammad Mustafa, P.E.
Managing Director



Signature of Md. Abdul Wadud Bhuiyan

Attested



Attachment-3: Addendum-2 report



[Handwritten signature]

Government of the Peoples' Republic of Bangladesh
Office of the Project Director (SE, RHD)
Paira Bridge (Lebukhali Bridge) Construction Project
Roads and Highways Department

Bangladesh Road Research Laboratory, Paikpara, Mirpur, Dhaka-1216
Site Address: Bridge Construction Site, Lebukhali Ferryghat (North), Bakerganj, Barisal
Phone: +88 01730782915, E-mail: pd.paira@gmail.com, pdpb@rhd.gov.bd

Memo No: PD/Paira/12.00/1904

Date: 19 March 2019

Subject: Consultancy Services for Design and Construction Supervision of Paira Bridge (Labukhali Bridge) over the River Paira on Barisal-Patuakhali Road
-Request for Approval of Extension of Time with Financial Implications (Addendum-02)

- Ref. 01. Consultant's letter memo no. ICT:700:PK:5751 dated 31.07.2018
02. This office memo no. PD/Paira/12.00/1668 dated 05.08.2018
03. Consultant's letter memo no. ICT:700:PK:5884 dated 07.08.2018
04. This office memo no. PD/Paira/12.00/1698 dated 30.08.2018
05. Consultant's letter memo no. ICT:700:PK:6695 dated 05.09.2018
06. This office memo no. PD/Paira/12.00/1756 dated 18.10.2018
07. Chief Engineer, RHD office memo no. 1215-CE dated 17.12.2018
08. Consultant's letter memo no. ICT:700:PK:9283 dated 24.12.2018
09. This office memo no. PD/Paira/12.02/1829 dated 03.01.2019
10. Consultant's letter memo no. ICT:700:PK:1036 dated 05.03.2019

Contract Agreement for the 'Consultancy services for Design and Construction Supervision of Paira Bridge (Labukhali Bridge) over the Paira River on Barisal-Patuakhali Road' was signed between RHD and *Intercontinental Consultants and Technocrats Pvt. Ltd.* in joint venture with *Kunhwa Consulting & Engineering Co. Ltd.*, Dr. Nebeel Abdul Raheem Consultants and Engineering and Planning Consultants Ltd (ICT-Kunhwa-NARCO-EPC Joint Venture) on 08 December 2013 following the approval of the proposal by the Roads Division, Ministry of Communication on 28 November 2013. Subsequently the consultants have informed about the commencement of service and mobilization of consultant team from 20.01.2014 vide its memo no. ICT:700:PK:682.

As per the contract document, total contract period for this service was of 54 (fifty four) months. Later the consultant requested for 03 months' time extension and man-month adjustment without cost increase on 14.08.2014 for the design period which was approved by authority on 24.08.2014. Afterwards Consultant on 09.04.2015 requested for Addendum-1 with 9 months' time extension for Selection of Contractor Period which was also approved by authority on 19.11.2015. With this Addendum-1, the Contract duration became 66 (Sixty six) months. Again Consultant, on 20.10.2016, requested for 07 months' Time extension for selection of Contractor period and quantity adjustment without cost increase and it was approved by authority on 08.12.2016. With that time extension, Contract duration became 73 (Seventy three) months. Further the Contract was extended for 02 months' Time Extension and quantity adjustment for construction supervision period without cost increase for the consultancy contract up to 19 April 2019, thus making the contract duration as 75 (Seventy Five) months vide Client memo no. 1339 dt. 07 Nov 2017.

The Consultant recently requested for Extension of Time with Cost Implications (Addendum 02) for 'Construction Supervision Period' for 14 months 11 days up to 30 June 2021 (including 1 year Defects Liability Period) due to the extension of Civil Work Contract vide memo under reference 10. With this proposed time extension the contract period will be of 89.36 months.

The proposed cost is about 48.63% more than the original contract price:



[Signature]

Table 1: Proposed Time Extension with Cost Implications

Item no	Contract Name	Original Contract (in taka) (including VAT & IT)	Proposed Time Extension with cost (in taka) (including VAT & IT)	Increase Amount from Original Contract (in taka)	% increase w.r.t. original contract
A	B	C	D	E=D-C	F
1	Consultancy Services for Design and Construction Supervision of Paira Bridge (Lebukhali Bridge) over the River Paira on Barisal-Patuakhali road	259,729,750.00	386,046,370.94	126,316,620.94	48.63%

As per Clause 104[1(d-8)] of Public Procurement Rules 2008, the proposed of Extension of Time with Cost Implications (Addendum-02) has to be recommended for approval by the Cabinet Committee on Government Purchase. Kuwait Fund For Arab Economic Development (KFAED) abide 100% payment without VAT and IT as per loan agreement with Government of Bangladesh. An amount of 1,050,000 Kuwaiti Dinar's equivalent of 3007.73 lac BDT (1 Kuwaiti Dinars = USD 3.4, 1 USD = BDT 84.25, on 19 March 2019) is kept in the 'List of Goods' of the Loan Agreement with Kuwait Fund for Consultancy Services. Here it is mentioned that in the approved 2nd RDPP of the project, an amount of 4256.25 lac BDT is kept for Consultancy Services.

Detail Report regarding the Extension of Time with Cost Implications is attached in Enclosure-01.

Therefore, the undersigned is recommending and would like to request for further necessary action to approve the Extension of Time with Cost Implications for the Consultancy Service and oblige thereby.

Enclosed: As stated

(Noor-E-Alam)

ID no. 231998015074

Project Director (SE, CC.), RHD
Paira Bridge (Lebukhali Bridge) Construction Project

Chief Engineer,
Roads and Highways Department,
Sarak Bhaban, Tejgaon, Dhaka.

Copy:

1. Secretary, Road Transport and Highways Division, Ministry of Road Transport and Highways, Bangladesh Secretariat, Dhaka. In favour of his kind information only.
2. Mr. Prashant Kapila, Authorized Representative, ICT-Kunhwa-NARCO-EPC Joint Venture, [Design & Construction-Supervision Consultant] and Chief Operating Officer (COO), Intercontinental Consultants and Technocrats Pvt. Ltd, A-8, Green Park, New Delhi-110 016 India.





البنك العربي الكويتي للتنمية الاقتصادية العربية
KUWAIT FUND FOR ARAB ECONOMIC DEVELOPMENT



Ref: KF/ 9 / 841 / 1	- 125	Total Pages: 1
Date : 10/6/2019	Administration & Operations	CF: BJ/30/A2P
Fax : (965) 22999090 (965) 22999091	Telephone (965) 22999000 E-Mail: operations@kuwait-fund.org	website: http://www.kuwait-fund.org

To:

Mr. Ebne Alam Hasan,
Chief Engineer,
Roads And Highways Department,
People's Republic of Bangladesh

Fax No./E-Mail

+88 056 2798
ce@rhd.gov.bd
pdph@rhd.gov.bd
pd.patra@gmail.com

Subject: Patra Bridge Project - K.F. Loan No. 841

We acknowledge with thanks receipt of your memo ref. No. 3047-CB dated 24th April, 2019 requesting approval for Addendum No. 2 for the consultancy contract for the above mentioned project.

Kindly be informed that we have no objection to Addendum No. 2, with an increase in the contract amount of US\$ 744,774.32 and 8,818,170 BDT and an extension of time amounting to 14 months.

Best Regards,

Waleed Al-Bahar
Director of Operations

তাইরী নং.....
তারিখ: ২১/৬/২০১৯
প্রধান প্রকৌশলীর (সওজ) দণ্ডন
সড়ক ভবন, ঢেকাগাঁও, ঢাকা।

ACE, P&M
PD, Patra Bridge

১০-৮-১
১/০৬/২০১৯
প্রধান প্রকৌশলী
সড়ক ও জলপথ পরিদপ্তর
সড়ক ভবন, ঢেকাগাঁও, ঢাকা।

تلفون: - فاكس: - ب. 2921 ، 13030 ، الكويت - Tel.: (965) 22999090 / 22999091 - Fax: (965) 22999090
P.O.Box: 2921 Safat, 13030 Kuwait - E-mail: info@kuwait-fund.org - Website: www.kuwait-fund.org



Government of the People's Republic of Bangladesh

Office of the Chief Engineer

Roads and Highways Department

Sarak Bhaban, Tejgaon, Dhaka

Phone : +8802-8879299 Fax : +8802-8879199

E-mail : ce@rhd.gov.bd

Memo No.

3410-OB

Date:

23/6/19

Subject: Consultancy Services for Design and Construction Supervision of Pairsa Bridge (Labukhali Bridge) over the River Pairsa on Barisal-Patuakhali Road
Post-facto prior approval for Variation Order (Addendum-2).

Ref: Project Director (SE), RHD, Pairsa Bridge (Lebukhali Bridge) Construction Project's memo no. PD/Pairsa/12.00/1904 dated 19-03-2019.

With reference to the above and as per his recommendation, post-facto prior approval is, hereby, given to prepare the Variation Order (Addendum-2) of the Consultancy Services for Design and Construction Supervision of Pairsa Bridge (Labukhali Bridge) over the River Pairsa on Barisal-Patuakhali Road in accordance with Rule 104 of PPR 2008.

Attn: 23/6/19
(Ebne Alam Hasan)

ID No. 001033

Chief Engineer

Roads & Highways Department
Sarak Bhaban, Tejgaon, Dhaka.

Project Director (SE), RHD
Pairsa Bridge (Lebukhali Bridge)
Construction Project
Bangladesh Road Research Laboratory
Palkpara, Mirpur, Dhaka-1216.

Copy:

Additional Chief Engineer, RHD, Planning and Maintenance Wing, Sarak Bhaban, Tejgaon, Dhaka.

Attn: 23/6/19

Office of the Project Director (SE), RHD Pairsa Bridge (Lebukhali Bridge) Construction Project	
Date: 25-06-19	Receipt Dy. No: 1548
PM	DPM/AE
Team Leader	AIO
File No: 12.	PD (SE)



Detail Report
on
**Proposal for Extension of Time with Financial
Implications (Addendum-02)**
for
**"Consultancy Services for Design and Construction
Supervision of Paira Bridge (Lebukhali Bridge) over
the River Paira on Barishal-Patuakhali Road"**

**PAIRA BRIDGE (LEBUKHALI BRIDGE) CONSTRUCTION PROJECT
ROADS & HIGHWAYS DEPARTMENT
ROAD TRANSPORT AND HIGHWAYS DIVISION
MINISTRY OF ROAD TRANSPORT AND BRIDGES**

March 2019

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Dr. Jit



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Government of the Peoples' Republic of Bangladesh
 Office of the Project Director (SE, RHD)
 Pairsa Bridge (Lebukhali Bridge) Construction Project
 Roads and Highways Department
 Bangladesh Road Research Laboratory, Paikpara, Mirpur, Dhaka-1216
 Site Address: Bridge Construction Site, Lebukhali Ferryghat (North), Bakerganj, Barisal
 Phone: +88 01730782915, E-mail: pd.pairsa@gmail.com, pdpb@rhd.gov.bd

**Report on Proposal for Extension of Time with Financial Implications (Addendum-02) for
"Consultancy Services for Design and Construction Supervision of Pairsa Bridge (Lebukhali
Bridge) over the River Pairsa on Barishal-Patuakhali Road"**

1. Introduction

Contract Agreement for the 'Consultancy services for Design and Construction Supervision of Pairsa Bridge (Lebukhali Bridge) over the Pairsa River on Barishal-Patuakhali Road' was signed between RHD and Intercontinental Consultants and Technocrats Pvt. Ltd, in joint venture with Kunhwa consulting & Engineering Co. Ltd, Dr. Nabeel Abdul-Rahem Consultants and Engineering and Planning Consultants Ltd (ICT-Kunhwa-NARCO-EPC Joint Venture) on 08 December 2013 following the approval of the proposal by the Roads Division, Ministry of Communication on 28 November 2013 (Annexure-01). Subsequently the Notice to Proceed was issued on 21.12.2013 and The Consultant has informed about the commencement of service and mobilization of the project team from 20.01.2014.

As per the contract document, total contract period for this service was of 54 (fifty four) months divided in two phases viz. Design phase (06 months design period and 03 months Selection of Contractor period) and Construction-Supervision phase (33 months supervision period and 12 month defect liability period). Later the consultant requested for 03 months' time extension and man-month adjustment without cost increase on 14.08.2014 for the design period which was approved by authority on 24.08.2014. Afterwards Consultant on 09.04.2015 requested for Addendum-1 with 9 months' time extension for Selection of Contractor Period which was also approved by authority on 19.11.2015. With this Addendum-1, the Contract duration became 66 (Sixty six) months. Again the Consultant, on 20.10.2016, requested for 07 months' Time extension for selection of Contractor period and quantity adjustment without cost increase and it was approved by authority on 08.12.2016. With that time extension, Contract duration became 73 (Seventy three) months. Further, the Contract was extended for 02 months' Time Extension and quantity adjustment for Construction Supervision period without cost increase for the Consultancy Contract up to 19 April 2019, thus making the contract duration as 75 (Seventy Five) months. The detail of the approval of this time extension is annexed in Annexure-02.

2. Discussion

The Consultant recently has requested for approval of Extension of Time with Financial Implications (Addendum-02) which includes 14 months 11 days time extension for the 'Construction Supervision Period' citing time extension of Civil Work Contract via its memo no, ICT:700:PK:1636 dated 05.03.2019. With this proposed time extension the contract period would be of 89.36 (Eighty Nine point three six) months. Detail of the contract timeline with this proposed additional 14 months 11 days time extension would be:

Table 1: Duration of Contract with Proposed Time Extension

Details		As per Original Contract			Approved Addendum-I			Approved 07 months' time extension			Approved 02 months' time extension			Proposed time extension		
		Start date	End date	Duration (months)	Start date	End date	Duration	Start date	End date	Duration (months)	Start date	End date	Duration (months)	Start date	End date	Duration (months)
Design phase	Design Period	20.01.2014	19.07.2014	06	20.01.2014	19.10.2014	09	20.01.2014	19.10.2014	09	20.01.2014	19.10.2014	09	20.01.2014	19.10.2014	09
	Selection of contractor Period	20.07.2014	19.10.2014	03	20.10.2014	19.10.2015	12	20.10.2014	19.05.2016	19	20.10.2014	19.05.2016	19	20.01.2014	19.05.2016	19



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Details		As per Original Contract			Approved Addendum-I			Approved 07 months' time extension			Approved 02 months' time extension			Proposed time extension		
		Start date	End date	Duration (months)	Start date	End date	Duration	Start date	End date	Duration (months)	Start date	End date	Duration (months)	Start date	End date	Duration (months)
Supervision phase	Construction Supervision Period	20.01.2014	19.07.2017	33	20.10.2015	19.07.2018	33	20.05.2016	19.02.2019	33	20.05.2016	19.04.2019	35	20.04.2016	30.06.2020	49.36
	Defect-Liability Period	20.07.2017	19.07.2018	12	20.07.2018	19.07.2019	12	20.02.2019	19.02.2020	12	20.04.2019	19.04.2020	12	01.07.2020	30.06.2021	12
Total Contract Period		20.01.2014	19.07.2018	54	20.01.2014	19.07.2019	66	20.01.2014	19.02.2020	73	20.01.2014	19.04.2020	75	20.01.2014	30.06.2021	89.36

For this proposed 14 months 11 days time extension with cost implications (Addendum-02) for 'Construction Supervision Period', the Consultant has proposed the following additional man-month and reimbursable quantities:

Table 2: Requirement of man-month and reimbursable quantities for Additional 'Construction Supervision Period'

Sl no.	Position	Unit	Quantity
1a. International Staff			
1	Team Leader / Sr. Bridge Engineer	Staff-month	(0.4)
2	Sr. Contract Specialist	Staff-month	8.04
3	Sr. Foundation / Geotechnical Engineer	Staff-month	2.00
4	Sr. Hydraulic / R T Engineer	Staff-month	12.34
5	Sr. Bridge Engineer	Staff-month	13.63
6	Sr. Material and Quality Control Engineer	Staff-month	9.00
7	Sr. Bridge Design Specialist	Staff-month	3.00
1b. Local Staff			
8	Deputy Team Leader	Staff-month	5.77
9	Contract Engineer	Staff-month	9.11
10	Environmental Engineer	Staff-month	7.48
11	Electrical Engineer	Staff-month	4.00
12	Social Impact Specialist	Staff-month	5.00
13	Quantity Surveyor	Staff-month	13.17
14	Resident Engineer	Staff-month	12.10
15	Material and Quality Control Engineer	Staff-month	6.56
16	Hydraulic / R T Engineer	Staff-month	27.97
17	Bridge Engineer - 1	Staff-month	13.52
18	Bridge Engineer - 2	Staff-month	1.47
19	Junior Bridge Engineer (New Position)	Staff-month	14.36
20	Foundation Engineer	Staff-month	(2.35)
21	Highway Engineer (New Position)	Staff-month	14.36
21	Junior Engineer - 1	Staff-month	5.00
23	Junior Engineer - 2	Staff-month	15.00
24	Junior Engineer (RT) (New Position)	Staff-month	14.00
2a. Reimbursable Expenses (International)			
25	Residential accommodation for long term expatriate personnel	Month	(76.56)
26	Per Diem for short-term expatriate personnel	Day	(24.00)
27	International Travel Cost		
a)	Delhi - Dhaka - Delhi	RT	50.50
28	Miscellaneous Expenses for Travel (visa, local transport, insurance, etc)	RT	29.00
2b. Reimbursable Expenses (National)			
29	Per Diem for National Staff and Long Term expatriate staff	Day	242.00
30	Communication Cost, telecommunication cost including cellular phone, e-mail, fax, postage, courier etc	Month	16.40



31	Drafting, Reproduction of Reports		
	i) Progress Report (Monthly)	Copy	70.00
	i) Progress Report (Quarterly)	Copy	20.00
32	Dhaka Liaslon Office	Month	16.40
33	Support Staff		
	Team Leader's Dhaka Office (Liaison office) max 150 sqm area		
	i) Office Manager / Secretary	Month	13.40
	for Field Office		
	i) Office Manager / Secretary	Month	14.27
	ii) Computer Operator	Month	14.00
	iii) CAD Operator	Month	29.00
	iv) Photocopy Machine Operator	Month	14.00
	v) Office Boy, Messenger, etc-(Total 02 nos. person)	Month	56.84
	vi) SAE / Site Supervisors-(Total 8 persons)	Month	142.10
	vii) Surveyor (Total 2 persons)	Month	43.00
	viii) Laboratory Technician (Total 2 persons)	Month	27.97

The Consultant has described the following factors as an explanation for the requirement of Extension of Time with cost implications (Addendum-02):

a. Requirement of Additional time for 'Construction Supervision Period':

As per the 'Appendix 01: Description of the Services' of the Consultancy contract, the followings are the duties and responsibilities of the consultant during the 'Construction Supeivision Period' (Annexure-03):

- a) Mobilization and Preparatory Activities
- b) Supervision of Construction Works and Quality Control
- c) Contract Management and Cost Control
- d) Monitoring
- e) Documentation
- f) Services During Defect Liabilities Period
- g) Reporting and Submission of Report"

Civil Work Contract viz. "Construction of 1470 meter long Paira Bridge (Lebukhali Bridge) over the river Paira including approach road, bank protective and related work at 26th Km of Barishal-Patuakhali road (N-8)" is already been extended from 24.04.2019 to 30.06.2020 (1st Extension of Time) i.e., 434 days vide Chief Engineer, RHD memo no 1493-CE dated 21.01.2019.

In view of the above, an extension of 14 months 11 days from 20 April 2019 to 30 June 2020 for the Construction Supervision consultancy services will be required to supervise the work as per Consultancy Contract. For this proposal of time extension results some cost implications as the input of key personnel both local and international will be increased as per requirement of the project. The Consultant has described the following factors as an explanation for the requirement of various input of Key Personnel as well as Reimbursable Cost:

I. Remuneration:

- i. Team Leader: The input of Team Leader in the Construction-Supervision Period is full time. Since 10.08.2017 the position of Team Leader is vacant. The Consultant proposed the total input of Team Leader to 33.60 months, considering the unused man-month of Team Leader.
- ii. Sr. Contract Specialist: The input of Sr. Contract Specialist in the Construction-Supervision Period is intermittent and he is essentially required to inspect the site and attend to issues related to preparation of Variation Orders, Extension of time, Change of Scope in the extended period of the contract. As per original contract, 14 months input in a total 33 months supervision period was kept for Sr. Contract Specialist. Now for the



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extended supervision period (total 49.33 months), it is proposed by the consultant to enhance the input of Sr. Contract Engineer to cumulative 22.04 months.

- iii. **Sr. Foundation Engineer/ Geotechnical Engineer:** Since the Contractor is taking up the Piling works for main bridge Pier No. 18 and Pier No. 17, the services of the Sr. Foundation Engineer is envisaged and as the man-months are exhausted due frequent requirement in the Paira Bridge work earlier, so an additional 2.00 months intermittent input is proposed during the extended period of the consultancy services chiefly to supervise the remaining Pier 17 foundation work.
 - iv. **Sr. Hydraulic/ RT Engineer:** In the Construction Supervision period of the Contract, 2 man months input was kept for Hydraulic/RT Engineer. Now based on the recommendations of the report by the River Research Institute, Faridpur, the Bank protection works scope increased to manifolds and the Construction drawing for river training work has to be prepared, approved and then construction will take place for the protection of the bridge. For this type of river training like pier protection and bank protection work specialist supervision for checking, approval and measuring is required on regular basis for better quality control & to avoid any discrepancies during construction at site. Owing to the enhanced work as envisaged and approved based on the report RRI Faridpur, the consultant had sought 2 additional man months of the River Training Expert. The Contractor is yet to commence the River Training Works for Bank protection. A further period of 10.34 months is envisaged for completion of these works. Accordingly, the revised cumulative input of Sr. Hydraulic/ RT Engineer in the contract is now proposed as 14.34 man months.
 - v. **Sr. Bridge Engineer:** As per the original Consultancy contract, Sr. Bridge Engineer was envisaged to have 18 man months input. The Paira Bridge is an extra dosed type bridge having maximum span length of 200m as well as longest pile length of 130m. As the bridge superstructure construction is now envisaged to be taken-up as cast in situ, regular supervision for form shuttering, fabrication, casting, stressing, stay cable adjustment, bridge camber profile checking is required on a daily basis.

To prevent any error during any phase of the construction stage for this type of complex bridge construction, continuous supervision by Senior Consultant personnel like Sr. Bridge Engineer is deemed essential on a full time basis. Accordingly, the Consultant had proposed an additional 10 man months input for the Sr. Bridge Engineer. The same was duly approved during the subsequent EOT proposal, making the revised man months for the Sr. Bridge Engineer to be 28 man months. The cumulative 28 man months already approved are getting exhausted prior to the revised scheduled completion period. It is therefore, proposed to further extend the input of the Sr. Bridge Engineer by a further 13.63 man months. This shall render the cumulative input of the Sr. Bridge Engineer up to scheduled completion date to be 41.63 man months.

- vi. **Sr. Material & Quality Control Engineer:** As per the contract, the Sr. Material & Quality Control Engineer had 15 months input out of 33 months of the original project duration. The Sr. Material & Quality Control Engineer was mobilized to the project intermittently and for the effective supervision of the balance works an additional 9 months is required for the extended period. As the project construction work is entering in to a critical phase with superstructure construction works, the input of the Sr. Material and Quality Control Engineer is vital at this juncture. The proposed cumulative input of the Sr. Material and Quality Control Engineer up to the end of the scheduled completion period is 24 man months.
 - vii. **Sr. Bridge Design Specialist:** No input of the Sr. Bridge Design Specialist was envisaged during the Construction Supervision Phase in the original consultancy contract. However, owing to the complexity of the structure and the change in design as per practical requirement, it becomes imperative that a Design specialist is required to monitor and guide the construction sequence and the erection sequence of the Extradosed cables including the stressing sequence etc. periodically in order to ensure the structural stability and durability pertaining to the Extras dosed cables in particular and the Main bridge in general.

Accordingly, a total of 3 months input is proposed for the Sr. Design Specialist and the same shall be mobilized intermittently as and when required for the project services. The remuneration and experience criteria for the said Specialist have been considered on the basis of the existing contractual terms for the said position and experience criteria for the Design phase. CV and evaluation are annexed in Appendix-A. During the construction of superstructure, timely trouble shooting by designer is needed as construction & erection of Extradosed cables is a continuous process. Also Design solutions in case of conflict issues of this type of complex structure like profile corrections, reinforcement /cable positioning and stay cable adjustment are required during execution.

- viii. **Deputy Team Leader:** During the Contract Period the input of the Deputy Team Leader was envisaged for 33 man-months. Due to the replacement of the personnel, there was some man-months left over from the original contract period and therefore to cover the extended period of 14 months, an additional 5.77 months are now sought. This would make the cumulative input of the Dy. TL to be 38.77 man months till the end of the scheduled completion period.
- ix. **Contract Engineer:** As per the contract, Contract Engineer has 28 months input out of 33 months of the original project duration. Since the Construction phase has to deal with lot of contractual issues pertaining to Extension of time, Variations and monitoring of construction time scale etc.& also the Sr. Contract Specialist input is intermittent in the project. We are now proposing additional 13.11 man-months more for the extended period. This would make the cumulative Input of the Contract Engineer to be 37.11 man months till the end of the scheduled completion period.
- x. **Environmental Engineer:** As per the contract, Environmental Engineer has 4 months input out of 33 months of the original project duration. Due to the requirement of the continued monitoring of the construction site with respect to environment issues of the project, an additional 7.46 man months is proposed over the original man-month of 4 months. This would make the cumulative input of the Environmental Engineer to be 11.46 man months till the end of the scheduled completion period.
- xi. **Electrical Engineer:** As per the contract, Electrical Engineer has 2 months input out of 33 months of the original project duration. Since the works of electrification has not yet started, we propose additional 4 man months input over and above the original contract duration, since the scope of work has increased for the location of the toll plaza, static weigh bridge & loading/unloading area as per the request of the Employer /Bangladesh Army. This would make the cumulative input of the Electrical Engineer to be 6 man months till the end of the scheduled completion period.
- xii. **Social Impact Specialist:** As per the contract, Social Impact Specialist has 4 months input out of 33 months of the original project duration. Since the works of relocation and other essential works are yet to be taken up by the Contractor, we propose an additional 5 months input over the original period. This would make the cumulative input of the Social Impact Specialist to be 9 man months till the end of the scheduled completion period.
- xiii. **Quantity Surveyor:** As per the contract, Quantity Surveyor has 32 months input out of 33 months of the original project duration. Since the position of Quantity Surveyor is important in the project, hence we propose him for the entire duration of the project & seeking 13.17 man months in the extended period. This would render the cumulative input of the Quantity Surveyor to be 45.17 man months till the end of the scheduled completion period.
- xiv. **Resident Engineer:** As per the contract, RE has 32 months input out of 33 months of the original project duration. The balance man-month left over is 1.90 from the original man-month schedule and the position is important for the supervision phase, hence we propose an additional 12.10 man-months. This would render the cumulative input of the Resident Engineer to be 44.10 main months till the end of the scheduled completion period.
- xv. **Material and Quality Control Engineer:** As per the Contract, Material & Quality Control Engineer has 26 months input. The supervision period started on 20.05.2016. Balance input as on 1st May 2019, is 2.44 months; in view of the same we submit a proposal of additional 11.56 months increase in the extended period. This would render the cumulative input of Material and Quality Control Engineer to be 32.56 man months till the end of the scheduled completion period.



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- xvi. **Hydraulic / RT Engineer:** As per latest BOQ of Consultancy Contract, Hydraulic/RT Engineer has an input of 24.30 months. Based on the recommendations of the report, Construction drawing for river training work has to be prepared, approved and then construction will take place for the protection of the bridge. As the execution work has not yet started, the input of Hydraulic / RT Engineer is very much important considering the complexity of the implementation works and the request for extension of the position till completion is added as full time, envisaging that the Contractor will start the work of bank protection during the extended period. At present there is an additional requirement of input of 9.67 months. Hence total requirement of input of Hydraulic/RT Engineer shall be 33.97 months till the end of the scheduled completion period.
- xvii. **Bridge Engineer-1:** As per the Contract, Bridge Engineer has input of 32 months out of 33 months of the supervision period. As the bridge is an extra dosed cable stay bridge, the supervision by the bridge engineer is important and hence the proposal is for the full extended period by adjusting the balance available. At present there is an additional requirement of input of 13.52 months. Hence total requirement of input of Bridge Engineer shall be 45.52 months till the end of the scheduled completion period.
- xviii. **Bridge Engineer-2:** As per the Contract, Bridge Engineer has input of 32 months out of 33 months of the supervision period. As the bridge is an extra dosed cable stay bridge, the supervision by the bridge engineer is important and hence the proposal is for the full extended period by adjusting the balance available. At present there is an additional requirement of input of 1.47 months. Hence total requirement of input of Bridge Engineer shall be 33.47 months till the end of the scheduled completion period.
- xix. **Junior Bridge Engineer :** As the bridge is an extra dosed cable stay bridge, the supervision by the bridge engineer is important and hence the proposal for the new Key Personnel (National) - Junior Bridge Engineer is proposed to assist the Sr. Bridge Engineer and Bridge Engineer-1 & 2 for the extended period 14 man month. A criterion in a line with RFP document is set by the project for recruiting the Junior Bridge Engineer. The CV and evaluation are attached in Appendix-A.
- xx. **Highway Engineer :** The approach road of Paira bridge is 1268 meter long, 4 lane National Highway standards. On the other hand, there is 50mm thick asphalt concrete also been prescribed over the 1470 meter long bridge deck. There is also toll plaza, weigh bridge and other ancillary work like road marking, sign, signal etc. For supervise all these very important project work, consultant proposed a Highway Engineer as National Key Personnel (New Position). A criterion is set for the new Highway Engineer position based on RFP document. Total 14.36 man-month input is kept for this proposed position. The CV and evaluation are attached in Appendix-A.
- xxi. **Junior Engineer-1:** As per the Contract, Junior Engineer has input of 32 months out of 33 months of the supervision period. Due to the requirement of the continued supervision of construction work, the request of extension is made. At present there is an additional requirement of input of 5 months. Hence total requirement of input of Bridge Engineer shall be 37 months till the end of the scheduled completion period.
- xxii. **Junior Engineer-2:** As per the Contract, Junior Engineer has input of 32 months out of 33 months of the supervision period. Due to the requirement of the continued supervision of construction work, the request of extension is made. At present there is an additional requirement of input of 15 months. Hence total requirement of input of Bridge Engineer shall be 47 months till the end of the scheduled completion period.
- xxiii. **Junior Engineer (RT):** New position is proposed due to the reason that the scope of work for the Bank Protection works, which include CC blocks casting, Dumping of Geobags, CC blocks, Scour protection works etc. has increased the quantum of works manifold than the original scope of works. As the execution work will take place simultaneously on upstream side and Down Stream side, the request is made to have a controlled monitoring of works and for quality of the works. Hence total requirement of input of Junior Engineer shall be 14 man months till the end of the scheduled completion period. A criterion in a line with RFP document is set by the project for recruiting the Junior Engineer (RT). The CV and evaluation are attached in Appendix-A.



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II. Reimbursable:

- (i) **Residential accommodation for Long Term expatriate personnel:** The residential accommodation for Long Term expatriate personnel are managed under Civil Work contract, so the 76.56 months input is suggested to reduce in the proposal.
- (ii) **Per Diem for short-term expatriate personnel:** The residential accommodation for Short Term expatriate personnel are also managed under Civil Work contract, so the 24.00 days input is suggested to reduce in the proposal.
- (iii) **International Travel Cost (Supervision Phase):** Due to extension of Contract period from 54 months to 89.36 months. As per practical requirement and cost rationalization most of the Key Professional (International) like, Sr. Material Engineer, Sr. Contract Specialist, Sr. Foundation / Geotechnical Engineer, Sr. Hydraulic/ RT Engineer and Sr. Bridge Design Specialist etc., inputs have been made intermittent and quite frequent. For this reason the provision of international travel costs including plane fare and miscellaneous travel cost increased a lot.
- (iv) **Per Diem for National Staff and Long Term expatriate staff:** Some national staff and long term expatriate need to attend various meeting held in outside project location. They are sometimes also be present in special test conducted by BUET, KUET etc. For this reason an additional 242 days is considered for Per Diem.
- (v) **Communication Cost:** The provision for Communication Cost, telecommunication cost including cellular phone, e-mail, fax, postage, courier etc is 33 months as per original contract. The Construction Supervision Phase is now proposed 49.36 months. So 16.36 months is proposed to increase for Communication Cost.
- (vi) **Dhaka Liasion Office and Office Manager:** The Construction Supervision Phase is proposed to 49.36 months. To match with the proposed extended period, Dhaka Liasion office, Office Manager/ Secretary (Dhaka Office) and Office Manager/ Secretary (Field Office) inputs are also need to be increased by 16.40 months, 13.40 months and 14.27 months respectively.
- (vii) **Drafting, Reproduction of Reports:** Since the quantum of works towards documentation has increased, a nominal increase in the provision for this item has been made.
- (viii) **Support Staff (SAE/ Site Supervisors):** As per the original contract, there was a provision of 4nos. SAE/ Site Supervisors. The volume of work in the approach road and riverbank protective work increased a lot, which requires a lot of close supervisor like SAE/ Site Supervisors. So the consultant proposed 4nos. more SAE/ Site Supervisors for an additional period. For this reason a total 274.10 man months input is increased for the total 8nos. SAE/ Site Supervisors.
- (ix) **Support Staff (CAD Operator and Surveyor):** As envisaged in the original contract, the man months input of the CAD Operator and Surveyor during the construction supervision phase were 18 and 20 months respectively. After that 2 months time extension without cost implication was approved by the CE, RHD and as per that approval CAD operator and Surveyor's input were 30 and 29 months respectively. But the proposed Supervision period is 49.36 months and to match with that additional input of 17 and 34 months are proposed respectively for CAD Operator and Surveyor, since the existing Man-months have already been exhausted at present. For Surveyor, an additional staff/personnel is considered with the existing one.

The above positions are very essential for the supervision works with effect from 1st May 2019 onwards up to 30th June 2020 for effective & efficient site supervision and quality control on the project.



With this Proposed Addendum-02, the Remuneration cost for 'Design and Selection of Contractor's Period' will be as follows:

Table 3: Remuneration cost for 'Construction Supervision Period' with Proposed Addendum-02

Sl. No.	Name	Position	Staff-Month Rate			Input Staff- months (As per Contract)	Input Staff- months for Proposed Time Extension with cost	Total (Staff- months) with Proposed Addendum- 02	Total Amount				
				US\$	BDT				US\$	BDT			
A	B	C	D	E	F	G	H	I	J=G(H)+I	K=E*J	L=F*I		
INTERNATIONAL STAFF													
1	Jurgen H.H Dorbecker/ Alexander	Team Leader / Sr. Bridge Engineer	Home	13000	-	-	-	-	-	-	-		
			Field	13000	-	34.00	34.00	(0.40)	33.60	436800	-		
2	Suresh Nagesh	Sr. Contract Specialist	Home	11000	-	-	-	-	-	-	-		
			Field	11000	-	14.00	10.00	8.04	22.04	242440	-		
3	Swapan Kumar Bagui	Sr. Foundation / Geotechnical Engineer	Home	10000	-	-	-	-	-	-	-		
			Field	10000	-	6.00	6.00	2.00	8.00	80000	-		
4	Kim J Gab/ Tapas Das	Sr. Hydraulic / R T Englnear	Home	16000	-	-	-	-	-	-	-		
			Field	16000	-	2.00	4.00	12.34	14.34	229440	-		
5	Kim H Kon/ BC Dinesh	Sr. Bridge Engineer	Home	17000	-	-	-	-	-	-	-		
			Field	17000	-	18.00	0.00	-	0.00	0.00	-		
5A	BC Dinesh	Sr. Bridge Engineer	Home	11000	-	-	-	-	-	-	-		
			Field	11000	-	0.00	28.00	13.63	41.63	457930	-		
6	Shaik Asif Ahmed	Sr. Material and Quality Control Engr	Home	8000	-	-	-	-	-	-	-		
			Field	8000	-	15.00	15.00	9.00	24.00	192000	-		
7	D Venkata Rao	Sr. Bridge Design Specialist	Home	10500	-	-	-	1.00	1.00	10500	-		
			Field	10500	-	-	-	2.00	2.00	21000	-		
8	Gautam Chattopadhyay	O & M Specialist	Home	8000	-	-	-	-	-	-	-		
			Field	8000	-	2.00	2.00	0.00	2.00	16000	-		
Sub Total						91.00	99.00	47.61	148.61	1686110	-		
LOCAL STAFF													
9	S.Sukuruzzaman/ Mohir Uddin	Deputy Team Leader	Home	-	210000	-	-	-	-	-	-		
			Field	-	210000	33.00	33.00	5.77	38.77	-	8141700		
10	Md.Nurul Islam/ Arbinda Mandal	Contract Engineer	Home	-	150000	-	-	-	-	-	-		
			Field	-	150000	28.00	24.00	9.11	37.11	-	5566500		
11	M A Momin Khondaker/ Shazad Khan	Environmental Engineer	Home	-	100000	-	-	-	-	-	-		
			Field	-	100000	4.00	4.00	7.46	11.46	-	1146000		
12	Mustafa Kamal	Electrical Engineer	Home	-	150000	-	-	-	-	-	-		
			Field	-	150000	2.00	2.00	4.00	6.00	-	900000		
13	Humayun Kabir	Social Impact Specialist	Home	-	150000	-	-	-	-	-	-		
			Field	-	150000	4.00	4.00	5.00	9.00	-	1350000		
14	Md. Iqbal Hossain	Quantity Surveyor	Home	-	90000	-	-	-	-	-	-		
			Field	-	90000	32.00	32.00	13.17	45.17	-	4065300		
15	Mohammad F Rahman/ Bejir Ahmad	Resident Engineer	Home	-	100000	-	-	-	-	-	-		
			Field	-	100000	32.00	32.00	12.10	44.10	-	4410000		
16	Shahidur R. Joader/ Ranjit Karmokar	Material & Quality Control Engineer	Home	-	85000	-	-	-	-	-	-		
			Field	-	85000	26.00	21.00	6.56	32.56	-	2767600		
17	AZM Nabi Khan/ Md. Akhtar Hussain	Hydraulic/ RT Engineer	Home	-	150000	-	-	-	-	-	-		
			Field	-	150000	6.00	24.30	27.97	33.97	-	5095500		



Sl. No.	Name	Position	Staff-Month Rate			Input Staff- months (As per Contract)	Input Staff-months (As per approved- man-month adjustment)	Additional Staff- months for Proposed Time Extension with cost	Total (Staff- months) with Proposed Addendum- 02	Total Amount				
			D	E	F					J=G+H+I	K=E+J	L=F+J		
A	B	C	D	US\$	BDT									
18	Md. Masudur Rahman/ Md. Rafiqul Alam	Bridge Engineer- 1	Home	-	75000	-	-	-	-	-	-	-		
			Field	-	75000	32.00	32.00	13.52	45.52	-	3414000	-		
19	Md. Ataur Rahman/ Som Nath Pal	Bridge Engineer-2	Home	-	75000	-	-	-	-	-	-	-		
			Field	-	75000	32.00	32.00	1.47	33.47	-	2510260	-		
20	Md. Omar Faruq	Junior Bridge Engineer	Home	-	75000	-	-	-	-	-	-	-		
			Field	-	75000	-	-	14.00	14.00	-	1050000	-		
21	SM Masoodur Rahman	Foundation Engineer	Home	-	160000	-	-	-	-	-	-	-		
			Field	-	160000	9.00	6.65	(2.35)	6.65	-	1064000	-		
22	Md Rahman	Highway Engineer	Home	-	160000	-	-	-	-	-	-	-		
			Field	-	160000	0.00	0.00	14.36	14.36	-	2297600	-		
23	Kamal Hossain/ Md. Omar Faruq	Junior Engineer -1	Home	-	60000	-	-	-	-	-	-	-		
			Field	-	60000	32.00	32.00	5.00	37.00	-	2220000	-		
24	Md. Shamsul Haque/ Md. Abdul Barek	Junior Engineer -2	Home	-	60000	-	-	-	-	-	-	-		
			Field	-	60000	32.00	32.00	15.00	47.00	-	2820000	-		
25	Shariful Islam	Junior Engineer (RT)	Home	-	60000	-	-	-	-	-	-	-		
			Field	-	60000	-	-	14.00	14.00	-	840000	-		
Sub Total						304.00	310.95	166.14	470.14	-	49658450	-		
A. TOTAL REMUNERATION						395.00	409.95	213.75	618.75	1686110	49658450			

And the Reimbursable cost (International) for 'Construction Supervision Phase' with proposed Time Extension with Cost implication (Addendum-02) will be as follows:

Table 4: Reimbursable cost (International) for 'Construction Supervision Phase' with proposed Addendum-02

Sl. No	Description	Unit	Unit Cost		Quantity as per Contract	Quantity as per approved 2 months time extension	Additional Quantity as per Proposed Addendum-02	Total Quantity with Proposed Addendum-02	Total Amount	
			US\$	BDT					US\$	BDT
A	B	C	D	E	F	G	H	I=G+H	J=D*I	K=E*I
1	Residential accommodation for long term expatriate personnel	Month	1250	-	82.00	82.00	(76.56)	5.44	6800.00	-
2	Per Diem for short-term expatriate personnel	Day	100	-	300	300	(24.00)	276.00	27600.00	-
3	International Travel Cost									
	i. Delhi - Dhaka - Delhi	RT	500	-	8.00	18.00	40.50	58.50	28392.00	-
	ii. Korea - Dhaka - Korea	RT	1600	-	4.00	0.00	-	-	-	-
4	Miscellaneous Expenses for Travel (visa, local transport, insurance, etc)	RT	200	-	12.00	12.00	29.00	41.00	8200.00	-



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Also the Reimbursable cost (National) for 'Construction Supervision Phase' with proposed Time Extension with cost implication (Addendum-02) will be as follows:

Table 5: Reimbursable cost (National) for 'Construction Supervision Phase' with proposed Addendum-02

Sl. No.	Description	Unit	Unit Cost		Quantity as per Contract	Quantity as per approved 2 months time extension	Additional Quantity as per Proposed Addendum- 02	Total Quantity with Proposed Addendum- 02	Total Amount	
			US\$	BDT					US\$	BDT
1	2	3	4	5	6	7	8	9=7+8	10=4*9	11=5*9
1	Per Diem for National Staff and Long Term expatriate staff	Day	-	2000	224.00	224.00	242.00	466.00	-	932000.00
2	Communication Cost, telecommunication cost including cellular phone, e-mail, fax, postage, courier etc	Month	-	21000	33.00	33.00	16.40	49.40	-	1037400.00
3	Drafting, Reproduction of Reports									
	i) Progress Report (Monthly)	Copy	-	400	165	165	70	235	-	94000.00
	ii) Progress Report (Quarterly)	Copy	-	2500	66	66	20	86	-	215000.00
	iii) Resettlement Completion Report	Copy	-	5000	10	10	-	10	-	50000.00
	iv) Project Completion Report	Copy	-	15000	10	10	-	10	-	150000.00
4	Dhaka Liason Office	Month	-	35000	33	33	16.40	49.40	-	1729000.00
5	Support Staff									
	For Team Leader's Dhaka Office									
	i) Office Manager / Secretary	Month	-	32000	36	36	13.40	49.40	-	1580800.00
	For Field Office									
	i) Office Manager / Secretary	Month	-	30000	33	33	14.27	47.27	-	1418100.00
	ii) Computer Operator	Month	-	30000	33	33	14.00	47.00	-	1410000.00
	iii) CAD Operator	Month	-	38000	18	30	17.00	47.00	-	1785000.00
	iv) Photocopy Machine Operator	Month	-	12500	33	33	14.00	47.00	-	587500.00
	v) Office Assistant, Messenger, etc (2 nos)	Month	-	12500	66	66	56.84	122.84	-	1535500.00
	vi) SAE/ Site Supervisors	Month	-	40000	132	132	142.10	274.10	-	10965000.00
	vii) Surveyor	Month	-	36000	20	29	34	63	-	2268000.00
	viii) Laboratory Technician	Month	-	36000	33	33	27.97	60.97	-	2194920.00
6	Provisional Sum									
	Arrangement of training / Study tour		-	20000000	1.00	1.00	(1.00)	-	-	
					C. TOTAL REIMBURSABLE (NATIONAL)				-	27952220.00



Hence the proposed cost for the 'Consultancy Services for Design and Construction Supervision' compared with the original contract cost for the same period is described in the following table:

Table 6: Cost as per Original Contract and Proposed Cost with Addendum-02

Item	Costs (Original Contract))			Costs (Approved Addendum-1)			Costs (Approved 07 months Time extension and quantity adjustment)			Costs (Approved 2 Months Time extension and quantity adjustment)			Costs (Proposed Time extension and quantity adjustment / Addendum 02)		
	US D	BDT	Eq. BDT	USD	BDT	Eq. BDT	USD	BDT	Eq. BDT	USD	BDT	Eq. BDT	USD	BDT	Eq. BDT
Design Phase (Design & Selection of Contractor Period)		315,100.00					356,763.93						356,763.93		
Construction-Supervision Phase	1,590,400.00	1,275,300.00	81,347,000.00	66,668,500.00	14,678,500.00		403,875.00			88,213,470.00	67,763,500.00	20,449,970.00	217,962,562.50		
TOTAL costs (excluding VAT & IT)	1,590,400.00	1,275,300.00	81,347,000.00	66,668,500.00	14,678,500.00		403,875.00			88,213,470.00	67,763,500.00	20,449,970.00	217,962,562.50		

The detail breakdowns of the above cost are annexed in Annexure-04.

The Government of Bangladesh have changed rate of Income Tax time to time during the execution of the contract. The increased amount of income tax and incorporating the proposed Time Extension with cost implication, the total contract cost in comparison with the original contract cost is as follows:

Table 7: Cost as per Original Contract and Proposed Cost with Addendum-02 for the Consultancy Contract

Item	Costs (As per Original Contract)			Costs (As per approved Addendum-1)			Costs (As per proposed Addendum 02)		
	US Dollar	BDT	Eq. BDT	US Dollar	BDT	Eq. BDT	US Dollar	BDT	Eq. BDT
Design Phase (Design & Selection of Contractor Period)	315,100.00	14,678,500.00		403,875.00	17,799,650.00		356,763.93	20,303,770.00	
Construction-Supervision Phase (Construction & Defect-liability period)	1,275,300.00	66,668,500.00		1,275,300.00	66,668,500.00		2,008,674.32	77,610,670.00	
TOTAL costs (excluding VAT & IT)	1,590,400.00	81,347,000.00	207,783,800.00	1,679,175.00	84,468,150.00	217,962,562.50	2,365,438.25	97,914,440.00	285,966,780.88
VAT & IT									
VAT @15%				31,167,570.00			32,694,384.38		42,895,017.13
IT				20,778,380.00			21,798,256.25		57,184,572.93
Total for VAT & IT				51,945,950.00			54,490,640.63		100,079,590.06
Total Amount (including VAT & IT)	1,590,400.00	133,292,950.00	259,729,750.00	1,679,175.00	138,958,790.63	272,453,203.13	2,365,438.25	197,994,030.06	386,046,370.94



9/15

The original Contract amount was. BDT 259,729,750.00 including VAT & IT (i.e. BDT 207,783,800.00 excluding VAT & IT) and the approved addendum-01 amount was 272,453,203.13 including VAT & IT (i.e., BDT 217,962,562.50 excluding VAT & IT). As a result of this proposed Addendum-02, the proposed contract price stands at 383,453,370.94 including VAT & IT (i.e. BDT 284,046,780.88 excluding VAT & IT) which is about 47.64% more than the original contract price:

Table 8: Proposed Addendum-02

Item no	Contract Name	Original Contract (in taka) (including VAT & IT)	Proposed Time Extension with cost (in taka) (including VAT & IT)	Increase Amount from Original Contract (in taka)	% increase w.r.t. original contract
A	B	C	D	E=D-C	F
1	Consultancy Services for Design and Construction Supervision of Paira Bridge (Lebukhali Bridge) over the River Paira on Barisal-Patuakhali road	259,729,750.00	386,046,370.94	126,316,620.94	48.63%

As per Clause 54 of the General Conditions of the Contract of the Contract document (**Annexure-05**):

"54.1 The amendment to Contract shall generally include extension of time to the Intended Completion Date, increase or decrease in original Contract price and any other changes duly approved under the Conditions of the Contract.

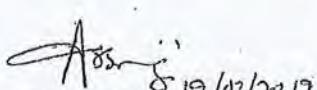
Therefore necessary approval is required for carrying out any amendment to the Consultancy contract.

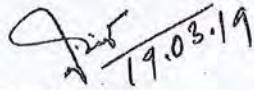
As per Clause 104[1(d-8)] of Public Procurement Rules 2008, the proposed Addendum-02 has to be approved by the approving authority of the original contract and the recommendation committee for the approval of the original contract was Cabinet Committee on Government Purchases. Here it is mentioned that in the approved 2nd RDPP of the project, an amount of 4256.25 lac BDT is kept for Consultancy Services. As per Loan agreement with Kuwait Fund for Arab Economic Development (KFAED), 100% cost without IT and VAT will be bearing by KFAED. An amount of 1,050,000 Kuwaiti Dinars equivalent of 3007.73 lac BDT (1 Kuwaiti Dinars = USD 3.4, 1 USD= BDT 84.25) is kept in the 'List of Goods' of the Loan agreement with Kuwait Fund for Consultancy Services (Annexure-06).

3. Conclusion:

In the above circumstances the Time Extension with Financial Implications (Addendum-02) for the "Consultancy Services for Design and Construction Supervision of Paira Bridge (Lebukhali Bridge) over the River Paira on Barisal-Patuakhali-road" is recommended for approval in a view to enable the consultant to achieve its target for the project.

(Kamrul Hasan)
Assistant Engineer ,RHD
Paira Bridge (Lebukhali Bridge) Construction Project


(Ahmad Sharif Shajib)
ID no. 601959
Project Manager (EE, RHD)
Paira Bridge (Lebukhali Bridge) Construction Project


(Noor-E-Alam)
ID no. 231998015074
Project Director (SE, CC.), RHD
Paira Bridge (Lebukhali Bridge) Construction Project



গোপনীয়
অতি জরুরি

পাল্টাইজেটিভ বাংলাদেশ সরকার
যোগাযোগ মন্ত্রণালয়
সড়ক বিভাগ
ডিএফডিপি শাখা

নম্বর ৩৫,০০,০০০০,০২৯,০৭,০০৩,১২-৬৬৮

তারিখ : ১৪ অগ্রহায়ণ ১৪২০
২৮ নভেম্বর ২০১৩

বিষয়ঃ বরিশাল-পটুয়াখালী মহাসড়কে পায়রা নদীর উপর পায়রা সেতু (লেবুখালী সেতু) নির্মাণ প্রকল্পের ডিজাইন ও নির্মাণ কাজ তদারকির পরামর্শক নিয়োগের ক্ষম প্রত্নাব অন্মোদন প্রস্তুতি।

সূত্র : প্রধান প্রকৌশলী (সওজ) এবং সারক নম্বর ৪৩৪-প্র: প্র: তারিখ : ০৪,১১,২০১৩

উপর্যুক্ত বিষয় ও সূত্রে প্রত্রে পরিপ্রেক্ষিতে নির্দেশক্রমে জানানো যাচ্ছে যে, বিবেচ্য ক্রয়ে প্রটোলিত আইন, বিধি/প্ররিধান ও নির্দেশনা প্রোগুরি অনুসরণ করা হচ্ছে মর্মে প্রধান প্রকৌশলী, সওজ অধিদপ্তর প্রত্যয়ন করায় বাংলাদেশ সরকার এবং Kuwait Fund for Arab Economic Development (KFABD) এর অর্থায়নে বরিশাল-পটুয়াখালী মহাসড়কে পায়রা নদীর উপর পায়রা সেতু (লেবুখালী সেতু) নির্মাণ প্রকল্পের ডিজাইন ও নির্মাণ কাজ তদারকির পরামর্শক হিসেবে পরামর্শক প্রতিষ্ঠান ICT-Kunhwa-NARCO-EPC Joint Venture (Intercontinental Consultants and Technocrats Pvt. Ltd, India in joint venture with Kunhwa Consulting & Engineering Co. Ltd, Korea, Dr. Nabeel Abdul-Rahem Consultants, Kuwait and Engineering and Planning Consultants Ltd., Bangladesh) কে ভ্যাট ও আইটি বাবদ ৫,৫৯,৪৫,৯৫০.০০ (পাঁচ কোটি উনিশ লক্ষ পঁয়তালিশ হাজার নয়শত পঞ্চাশ) টাকাসহ সর্বসোট ২৫,১৭,২৯,৭৫০.০০ (পঁচিশ কোটি সাতানবই লক্ষ উনিশ হাজার সাতশত পঞ্চাশ টাকা মাত্র) (মার্কিন ডলার ১,৫৯০,৪০০.০০ এবং বাংলাদেশী টাকা ৪৩৩,২৯২,৯৫০.০০) টাকার ক্রয় প্রত্নাব সরকার অনুমোদন করেছে।

০১. উক্ত স্বাক্ষরকালে Consultant Association এর Lead Partner এবং অংশীদারী অন্যান্য পরামর্শক প্রতিষ্ঠানের Authorized Representative এবং উপস্থিতি নিশ্চিত করার জন্য অনুরোধ করা হলো।

০২. উক্ত সরকারি সিকাট অনুসরণে পরবর্তী প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য অনুরোধ করা হলো।

০৩. উক্ত সরকারি সিকাট বাস্তবায়ন কার্য না হওয়া পর্যন্ত বাস্তবায়নের অগ্রগতি প্রতিবেদন প্রতি মাসের শেষ ব্যার্যদিবসে একবার এ বিভাগে প্রেরণ করার জন্য অনুরোধ করা হলো।

(স্বীকৃত স্বাক্ষরকালে)
সিনিয়র সহকারী সচিব
ফোন: ৯৫৭৫৫১৪

প্রধান প্রকৌশলী

সড়ক ও জনপথ অধিদপ্তর
সড়ক ভবন, তেজগাঁও, ঢাকা।

অনুলিপি:

০১. প্রকল্প পরিচালক, বরিশাল-পটুয়াখালী মহাসড়কে পায়রা সেতু (লেবুখালী সেতু) নির্মাণ প্রকল্প
সড়ক ভবন, পটুয়াখালী।
০২. সচিব মহোদয়ের একান্ত সচিব, সড়ক বিভাগ, যোগাযোগ মন্ত্রণালয়, ঢাকা।



(2)

Government of the People's Republic of Bangladesh
Office of the Superintending Engineer, RHD
Procurement Circle
Sarak Bhaban, Tejgaon, Dhaka
Fax: 8879353
E-mail: sepc@rhd.gov.bd

Memo no. 467 P26

Dated: 24-08-2014

V6
Project Director (SE), RHD
Paira Bridge (Lebukhali Bridge) Construction Project
Bangladesh Road Research Laboratory
Paikpara, Mirpur, Dhaka.

Subject: Consultancy Services for Design and Construction Supervision of Paira Bridge (Lebukhali Bridge) over the River Paira on Barisal-Patuakhali Road -Time Extension.

Ref.: His memo no. PD/Paita/12.0/336 dated 14-08-2014 and Chief Engineer, RHD's diary no. 630-CE dated 18-08-2014.

The undersigned has the honour to state that the above mentioned subject as received from Project Director (SE), RHD, Paira Bridge (Lebukhali Bridge) Construction Project vide memo under reference was discussed on 19-08-2014. The recommendation of the discussion on the subject is as follows:

"Recommendation :

As per recommendation of the Project Director (SE), RHD, Paira Bridge (Lebukhali Bridge) Construction Project, the officers present in the discussion recommended for approval of the extension of time and also the staff months adjustment (without increasing total man-month 68.50 and contract price) by the Chief Engineer, RHD as shown in the table below with the following conditions :

Effective date	Design period as per contract (months)	Design period recommended as per extension of time (months)	Contract period as per recommended extension of time (months)	Intended completion date as per recommended extension of time
21 December 2013	06	09	57	20 September 2018

Conditions :

1. The staff months adjustment is required to be concurred by the Kuwait Fund for Arab Economic Development (KFAED), otherwise this approval will be considered as invalid.
2. This extension of time by itself does not entitle the Consultant to any financial claim or any other consequential claim what so ever."

The above recommendation was placed to the Chief Engineer, RHD through note sheet. The Chief Engineer, RHD vide U.O. No. 210-CE dated 24-08-2014 accorded his approval on the above recommendation.

He, is therefore, requested to take further necessary action in this regard as per the approval of the Chief Engineer, RHD abiding by all the rules, regulations, Government financial rules and formalities.

(Md. Ashraful Alam)

ID No. 005394

Superintending Engineer, RHD (c.c.)
Procurement Circle, Dhaka.

Dated :

Memo no.

Copy to :

1. Chief Engineer, Roads & Highways Department, Dhaka, for favour of his kind information. This has reference to his U.O. No. 210-CE dated 24-08-2014.
2. Additional Chief Engineer, RHD, Planning and Maintenance, Dhaka.

(Md. Ashraful Alam)
Superintending Engineer, RHD (c.c.)
Procurement Circle, Dhaka.



14

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
সড়ক পরিবহন ও সেতু মন্ত্রণালয়
সড়ক পরিবহন ও মহাসড়ক বিভাগ
ডিএফডিপি অধিকারী

www.rthd.gov.bd

নম্বর ৩৫,০০,০০০,০২৯,০৮,০০৫,১৫-৫৩৪

তারিখ: ১৯/১১/২০১৫ খ্রি.

নিষ্পত্তি: Consultancy Services for Design and Construction Supervision of Paita Bridge (Labukhali Bridge) over the River Paita on Barisal-Patualkhali Road
এবং Addendum-1 অনুমোদন।

প্রতিঃ প্রধান প্রকৌশলী, সওজ এবং সারক নং: ৪৮০ পিই তারিখ: ২০/১১/২০১৫।

উপর্যুক্ত বিষয় ও সন্দৰ্ভ পত্রের আলোকে নির্মাণক্রমে জানানো যাচ্ছে যে, বিবেচ্য ক্রমে প্রচলিত অভিন্ন বিধি ও নির্দেশনা প্রযোগের অনুসরণ করা হয়েছে যা মৰ্মে প্রধান প্রকৌশলী, সওজ অধিদপ্তর পাইকার কর্মসূচি বিভাগ প্রচলিত সহাসড়কের পায়ারা নদীর উপর পায়ারা সেতু (লেবুখালী সেতু) নির্মাণ প্রকল্পের পরামর্শক সেবার মূল উল্লেখ মূল্য ৩৫,৯৭,২৯,৭৫০,০০ টাকা (প্রচলিত সাভান কোটি সাভান লক্ষ উন্নিশ হাজার হাতশত পঞ্চাশ টাকা) [শার্কিন ডলার ১৫,৯৩,৪০০,০০ এবং সমপরিমাণ বাংলাদেশী টাকা ১২,৬৪,৬৬,৮০০,০০ + বাংলাদেশী টাকা ৮,১৩,৪৭,০০০,০০ + ভ্যাট বাবদ টাকা ৩,১১,৬৭,৭৫০,০০ + অয়কর বাবদ টাকা ২,০৭,৭৮,৭৫০,০০] হতে পৃথিবীতে জনসাধারণের বাস বাস অতিরিক্ত ১,২৭,২৩,৪৫৩,৬৩ (এক কেটি সাভান লক্ষ তেইশ হাজার চারশত তেপান টাকা তের পঞ্চাশ) [শার্কিন ডলার ৮৮,৭৫০,০০ এবং সমপরিমাণ বাংলাদেশী টাকা ৭০,৫৭,৬১২,৫০ + বাংলাদেশী টাকা ৩১,১১,১৫০,০০ + ভ্যাট বাবদ টাকা ১৫,২৬,৮১৪,৩৮ + অয়কর বাবদ টাকা ১০,৩৭,৮৭৬,২৫] টাকা যোগ করে সর্বমোট ২১,২৪,৫৩,২০৩,১৩ (গ্রাভাশ কোটি চারশি লক্ষ তেপান হাজার দুইশত তিন টাকা তের পঞ্চাশ) [শার্কিন ডলার ১৬,৭৯,১৭৫,০০ এবং সমপরিমাণ বাংলাদেশী টাকা ১৩,৩৪,৯৪,৪১২,৫০ + বাংলাদেশী টাকা ৮,৪৪,৬৬,১৫০,০০ + ভ্যাট বাবদ টাকা ৩,২৬,৯৪,৩৮৪,৩৮ + অয়কর বাবদ টাকা ২,১৭,৯৬,২৫৬,১৫] টাকার Addendum-1 এর প্রতিবাটি পাত ০৪/১১/২০১৫ তারিখের সরকারি ত্রুটি সংজ্ঞায় কার্যসূচি সুপারিশের প্রেক্ষিতে যথাযথ কর্তৃপক্ষ কর্তৃত অনুমোদিত হয়েছে।

০২. উক্ত সরকারি সিকাত অনুসরণে পরবর্তী প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য অনুরোধ করা হল।

০৩. উক্ত সরকারি সিকাত বাস্তবায়ন কার্য সম্পর্ক না হওয়া পর্যবেক্ষণ বাস্তবায়নের অংশগতি প্রতিবেদন প্রতি মাসের শেষ
বায়িদিবসে একবার এ বিভাগে প্রেরণ করার জন্য অনুরোধ করা হল।

(পাইকার হাজারা)

উপ-সচিব

ফোন: ৯৮৭৫৫১৪

sasdfdp@rthd.gov.bd

প্রধান প্রকৌশলী

সড়ক ও জনপথ অধিদপ্তর

সড়ক ভুবন, তেজগাঁও, ঢাকা

অনুলিপি:

০১. প্রকল্প পরিচালক, পায়ারা সেতু (লেবুখালী সেতু) নির্মাণ প্রকল্প, সড়ক গবেষণাগার, পাইকপাড়া, সিরপুর, ঢাকা

০২. সচিব মহোদয়ের একাত্ত সচিব, সড়ক পরিবহন ও মহাসড়ক বিভাগ, সড়ক পরিবহন ও সেতু মন্ত্রণালয়



পাতা

Government of the People's Republic of Bangladesh
Office of the Chief Engineer
Roads and Highways Department
Sarak Bhaban, Tejgaon, Dhaka
Tel: 9562829 Fax: 9562798, E-mail: ce@rhd.gov.bd

Memo No:

823-CB

Date:

8/1/16

Subject: Consultancy services for Design and Construction-Supervision of Paira Bridge (Lebukhali Bridge) over the river Paira on Barisal-Patuakhali road, Bangladesh.

-07 months Time Extension and quantity adjustment without any cost increase

Ref: Project Director, Paira Bridge (Lebukhali Bridge) Construction Project's memo no. PD/Paira/12/00/9201 dated 03/11/2016.

As per the recommendation of the Project Director, Paira Bridge (Lebukhali Bridge) Construction Project, the "07 months Time Extension and quantity adjustment without any cost increase" for "Consultancy services for Design and Construction-Supervision of Paira Bridge (Lebukhali Bridge) over the river Paira on Barisal-Patuakhali road, Bangladesh" is hereby approved as follows:

Contract Mobilization date	As per approved Addendum-1 (months)		As per recommended extension of time (months)		Intended completion date as per recommended extension of time
	Selection of Contractor Period	Total Contract period	Selection of Contractor Period	Total Contract period	
20 January 2014	12	66	19	73	19 February 2020

Conditions:

1. This approval of "07 months time extension and quantity adjustment without any cost increase" will be effective subject to the concurrence/no objection of the Kuwait Fund for Arab Economic Development (KFAED).
2. The extension of time itself does not entitle the Consultant to any financial claim or any other consequential claim what so ever.

He is, therefore, requested to take further necessary action abiding all the rules, regulations, Government financial rules and formalities.

Project Director
Paira Bridge (Lebukhali Bridge)
Construction Project
Bangladesh Road Research Laboratory
Mirpur, Dhaka.

(Ebne Alam Hasan)
ID no: 001033
Chief Engineer (CO)
Roads & Highways Department
Sarak Bhaban, Tejgaon, Dhaka

Copy to:
1. Additional Chief Engineer, RHD, Planning and Maintenance, Dhaka.



25

Government of the People's Republic of Bangladesh
Office of the Chief Engineer
Roads and Highways Department
Sarak Bhaban, Tejgaon, Dhaka.
Tel: 9562829 Fax: 9562798, E-mail: ce@rhd.gov.bd

Memo No:

643-CF

Date:

25/10/17

Subject: Consultancy services for Design and Construction-Supervision of Paita Bridge (Lebukhali Bridge) over the river Paita on Barisal-Patuakhali road, Bangladesh.

-02 months Time Extension and quantity adjustment without any cost increase

Ref: Project Director, Paita Bridge (Lebukhali Bridge) Construction Project's memo no. PD/Paita/12.00/1305 dated 08/10/2017.

As per the recommendation of the Project Director, Paita Bridge (Lebukhali Bridge) Construction Project, the "02 months Time Extension and quantity adjustment without any cost increase" for "Consultancy services for Design and Construction-Supervision of Paita Bridge (Lebukhali Bridge) over the river Paita on Barisal-Patuakhali road, Bangladesh" is hereby, approved as follows:

Contract Mobilization date	Contract duration (months)		As per recommended extension of time (months)		Intended completion date as per recommended extension of time
	Construction Supervision Period	Total Contract period	Construction Supervision Period	Total Contract period	
20 January 2014	33	73	35	75	19 March 2020

Conditions:

1. This approval of '02 months time extension and quantity adjustment without any cost increase' will be effective subject to the concurrence/no objection of the Kuwait Fund for Arab Economic Development (KFAED).
2. The extension of time itself does not entitle the Consultant to any financial claim or any other consequential claim what so ever.

He is, therefore, requested to take further necessary action abiding all the rules, regulations, Government financial rules and formalities.

27/10/17
(Ebne Alam Hasan)

ID no: 001033

Chief Engineer

Roads & Highways Department
Sarak Bhaban, Tejgaon, Dhaka

✓ Project Director
Paita Bridge (Lebukhali Bridge)
Construction Project
Bangladesh Road Research Laboratory
Mirpur, Dhaka.

Copy to:

1. Additional Chief Engineer, RHD, Planning and Maintenance, Dhaka.



25/10/17



(3)

**Government of the People's Republic of Bangladesh
Ministry of Communication
Roads Division
Roads & Highways Department**

CONTRACT FOR CONSULTANCY SERVICES

For

Design and Construction-Supervision of Paira Bridge (Lebukhali Bridge) over the river Paira on Barisal-Patuakhali road, Bangladesh

(KUWAIT FUND LOAN NO. 841)

Between:

Roads and Highways Department

And

ICT-Kunhwa-NARCO-EPC JV

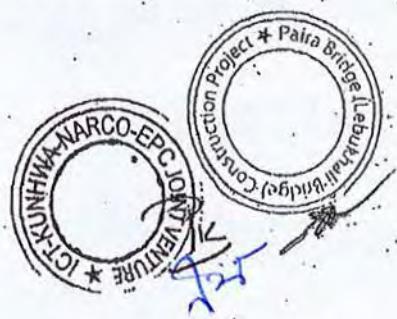
Intercontinental Consultants and Technocrats Pvt. Ltd

Kunhwa Engineering & Consulting Co. Ltd

Dr. Nabeel Abdul-Raheem Consultants

Engineering and Planning Consultants Ltd

December 2013

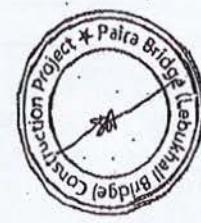


APPENDIX-1:
DESCRIPTION OF THE SERVICES



DESCRIPTION OF THE SERVICES OF THE CONSULTANTS

The description of the services is narrated in the Terms of Reference (ToR) of the consultants and in Annexed herewith:



3.10 Technology Transfer and Training

The Consultants have always, as a matter of policy, considered transfer of technology and training of domestic counterparts to be a very important and integral part of overseas consulting services. The Consultants understand that training should achieve both institutional and individual objectives. The institutional objectives would ensure that the staffs associated with the project from the client, local consultant, NGO, and contractors improve their capability to perform effectively and to continue to develop the Client's in-house training capabilities. The Individual training objectives would also be oriented towards strengthening the capabilities of RHD staff in design, supervision of road projects, and maintenance.

The transfer of technology will require a rapid assessment of the existing level of knowledge, available resources, and constraints within the Ministry of Communication/RHD and its professional, analysis and identification of gaps, preparation of discussion materials and organization of lectures and on the job training. The Consultants will emphasize on:

- On-the-job training;
- Collaboration together at field and at office sharing experience together;
- Conducting classes on Contract Management, Quality Control, Environmental Monitoring and Finance; and
- Regular discussions on various aspects of the project design and supervision.
- Organise overseas training.

Since Training firms a major component of the services, the Consultants have explained their training method and approach in a separate Chapter 7.

3.11 Methodology Framework

Based on our technical, management, participatory, general, innovativeness and technology transfer approaches to be adopted, the entire work to be carried out has been grouped into various task groups as under:

DESIGN PHASE

- Task Group I : Mobilization and Work Initiation
Task Group II : Survey and Investigation
Task Group III : Final Design
Task Group IV : Preparation of Land Acquisition and Re-settlement Plan
Task Group V : Preparation of Tender Documents and Estimates
Task Group VI : Preparation of Environment Management Plan
Task Group VII : Assistance to Client during Procurement of Works
Task Group VIII : Preparation and Submission of Reports

CONSTRUCTION SUPERVISION PHASE

- Task Group I : Mobilization and Preparatory Activities
Task Group II : Supervision of Construction Works and Quality Control
Task Group III : Contract Management and Cost Control
Task Group IV : Monitoring
Task Group V : Documentation
Task Group VI : Services During Defect Liability Period
Task Group VII : Reporting and Submission of Reports

Table 3.1: Task List

Task No.	Description of Task	ToR Reference
DESIGN PHASE		
TASK GROUP I – MOBILIZATION AND WORK INITIATION		
101	Mobilization of Project Team and Start up Meeting	Normal Task
102	Reconnaissance Survey	3.1.1 (a)



JK

ICT: 700: PK: 1636

5th March 2019

Mr. Noor-E-Alam
 The Project Director (SE, CC), RHD
 Paira Bridge (Lebukhali Bridge) Construction Project
 BRRL, Paikpara, Mirpur, Dhaka-1216

Sub: Consultancy Services for Design and Construction Supervision of Paira Bridge (Lebukhali Bridge) over the River Paira on Barishal-Patuakhali Road- Request for Approval of Proposal Pertaining to Extension of Time with Financial Implications Up to 30th June 2020.

- Ref.:**
1. Letter No. ICT: 700: PK: 5751 dated 31st July 2018.
 2. Letter No. PD/Paira/12.00/1668 dated 05th August 2018.
 3. Letter No. ICT: 700: PK: 5884 dated 07th August 2018.
 4. Letter No. PD/Paira/12.00/1698 dated 30th August 2018.
 5. Letter No. ICT: 700: PK: 6595 dated 05th September 2018.
 6. Letter No. PD/Paira/12.00/1756 dated 18th October 2018.
 7. Letter No. 1215-CE dated 17th December 2018.
 8. Letter No. ICT: 700: PK: 9253 dated 24th December 2018.
 9. Letter No. PD/Paira/12.02/1829 dated 03rd January 2019.

Dear Sir,

We refer to the letter at ref. No. 9 above and in continuation to the other correspondences made thereof as listed under reference.

Kindly refer to Clause 54 of the General Conditions of the Consultancy Contract Agreement wherein it is stated that necessary approval may be obtained from Client for carrying out any amendments to the Contract.

This is to inform you that Contract Agreement for the "Consultancy Services for Design and Construction Supervision of Paira Bridge (Lebukhali Bridge) over the Paira River on Barisal-Patuakhali Road (N-8)" between Roads and Highways Department and Intercontinental Consultants and Technocrats Pvt. Ltd, in Joint Venture with Kunwha Consulting & Engineering Co., Ltd, Dr. Nabeel Abdul-Raheem Consultants and Engineering Planning Consultants Ltd (ICT-KUNWHA-NARCO-EPC JV) was signed on 08.12.2013. The Consultant started mobilizing its team from 20.01.2014. As per the contract document, total contract period for this service was 54 (fifty four) months divided in two phases viz. Design phase (06 months design period and 03 months Selection of Contractor period) and Construction-Supervision phase (33 months supervision period and 12 month defect liability period). Later the consultant requested for 03 months' time extension and man-month adjustment without cost increase on 14.08.2014 for the design period which was approved by the Competent Authority on 24.08.2014.

Afterwards the Consultant on 09.04.2015 requested for Addendum-1 with 9 months' time extension for Selection of Contractor Period which was also approved by the Competent Authority on 19.11.2015. With this Addendum-1, the Contract duration became 66 (Sixty six) months. Again the Consultant, on 20.10.2016, requested for 07 months' Time extension for selection of Contractor period and quantity adjustment without cost increase and it was approved by the Competent Authority on 08.12.2016. With that time extension, the Contract duration became 73 (Seventy three) months. Further, the Contract was extended for 02 months' Time Extension and quantity adjustment for construction supervision period without cost increase for the consultancy contract up to 19 April 2019, thus making the contract duration as 75 (Seventy Five) months vide Client Memo No. 1339 dt. 7th Nov 2017.

The Contractor has proposed an additional extension of time beyond the scheduled completion of the project vide letter No. LRBC/A/2018/08/17 dated 16th August 2018, with a request of extension of time for Main Bridge as 364 Days and 581 Days for riverbank protection works. The same was reviewed by the Consultant and recommended for 310 days for the completion of Main Bridge works and 434 Days for the Bank Protection works, thus the final dates for completion are on 27th February 2020 and 30th June 2020 respectively vide letter No. PB/DCS/RHD/09/011 dated 26th September 2018.

Jitri Pil *PIL*
Innovative, Creative & Technologically Sustainable Infrastructure Solutions

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In view of the above, we request the Competent Authority for an extension of 14 months and 9 days from 20 April 2019 to 30 June 2020 for the Construction Supervision consultancy Contract as per details included below:

- A. **Requirement of Additional time for Construction-Supervision Period:**
- B. The Civil Works Contract was approved on 10.03.2016 and the 'Notification of Award' was issued to the Contractor on 20.03.2016. Afterwards, the Contractor submitted the Performance Security on 30.03.2016. With due verification of the Performance Security, the Civil Works Contract was signed on 12.04.2016. Later the Contractor submitted its Bank guarantee for 'Advance payment Security' and submitted Contractor's IPC-01 for Advance Payment on 09.05.2016. The 'Advance payment Security' was duly verified by the Client and the IPC-01 (Advance payment) was certified on 26.06.2016. After the Contractor received the payment and also the handover of land to the Contractor on 19.07.2016, Notice to commencement of Civil works, effective from 24.07.2016, was issued to the Contractor. As the IPC-01 required Consultant's recommendation for payment, the Consultant's Construction-Supervision mobilization period was commenced from 20.05.2016. Presently, as per the Civil Works Contract, the construction period is extended up to 20 June 2020 (without DLP) & correspondingly the Construction-Supervision period for the Consultancy contract has to be extended up to 30 June 2020 and, therefore, an additional 14 months 9 days' time extension from 20.04.2019 to 30.06.2020 is being sought. The revised contract duration would be as follows:

Table 1: Duration of Contract with Proposed Time Extension

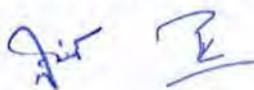
Details		As per Original Contract			Approved Addendum-I			Approved 07 months' time extension			Approved 02 months' time extension			Proposed time extension		
		Start date	End date	Dura tion (mon ths)	Start date	End date	Dura tion	Start date	End date	Dura tion (mon ths)	Start date	End date	Dura tion (mon ths)	Start date	End date	Duration (months)
Design phase	Design Period	20.01.2014	19.07.2014	06	20.01.2014	19.10.2014	09	20.01.2014	19.10.2014	09	20.01.2014	19.10.2014	09	20.01.2014	19.10.2014	09
	Selection of contractor Period	20.07.2014	19.10.2014	03	20.10.2014	19.10.2015	12	20.10.2014	19.05.2016	19	20.10.2014	19.05.2016	19	20.01.2014	19.05.2016	19
Supervision phase	Construction Supervision Period	20.01.2014	19.07.2017	33	20.10.2015	19.07.2018	33	20.05.2016	19.02.2019	33	20.05.2016	19.04.2019	35	20.05.2016	30.06.2020	49.33
	Defect- Liability Period	20.07.2017	19.07.2018	12	20.07.2018	19.07.2019	12	20.02.2019	19.02.2020	12	20.04.2019	19.04.2020	12	01.07.2020	30.06.2021	12
Total Contract Period		20.01.2014	19.07.2018	54	20.01.2014	19.07.2019	66	20.01.2014	19.02.2020	73	20.01.2014	19.04.2020	75	20.01.2014	30.06.2021	89.33

C. **Remuneration:**

- (i) **Sr. Contract Specialist:** The input of Sr. Contract Specialist during the Construction-Supervision Period is intermittent and he is essentially required to inspect the site and attend to issues related to preparation of Variation Orders, Extension of time, and Change of Scope in the extended period of the contract. As per the original contract, 14 months input of the Sr. Contract Specialist was envisaged over a total 33 months supervision period. Now for the extended supervision period (49.33 months), it is proposed to enhance the input of the Sr. Contract Specialist to cumulative 22.04 months.
- (ii) **Sr. Foundation Engineer/ Geotechnical Engineer:** Since the Contractor is taking up the Piling works for Pier No. 18 and all piles in Pier No. 17, the services of the Sr. Foundation Engineer is envisaged and as the man-months are already exhausted, more input is required due to revision of the pile foundation of the main bridge. Accordingly, an additional 2 month's intermittent input is proposed during the extended period of the consultancy services. This will render the cumulative input of the Sr. Foundation Engineer/ Geotechnical Engineer to be total 8 man-months up to the end of the scheduled completion period.



- (iii) **Sr. Hydraulic/ RT Engineer:** In the Construction Supervision period of the Contract, 2 man months input was envisaged for the Hydraulic/RT Engineer. Now based on the recommendations of the report by the River Research Institute, Faridpur, the Bank protection works scope has increased manifold and the Construction drawing for river training work has to be prepared, approved and then construction will take place for the protection of the bridge. For this type of river training like pier protection and bank protection work specialist supervision for checking, approval and measuring is required on regular basis for better quality control & to avoid any discrepancies during construction at site. Owing to the enhanced work as envisaged and approved based on the report of RRI Faridpur, the consultants had sought 2 additional man months of the River Training Expert. The Contractor is yet to commence the River Training Works for Bank protection. A further period of 0.34 man months is envisaged for completion of these works. Accordingly, the revised cumulative input of Sr. Hydraulic/ RT Engineer in the contract is now proposed as 14.34 man months.
- (iv) **Sr. Bridge Engineer:** As per the original Consultancy contract, Sr. Bridge Engineer was envisaged to have 18 man months input. The Paira Bridge is an extra dosed type bridge having maximum span length of 200m as well as longest pile length of 130m. As the bridge superstructure construction is now envisaged to be taken-up as cast in situ, regular supervision for form shuttering, fabrication, casting, stressing, stay cable adjustment, bridge camber profile checking is required on a daily basis.
- To prevent any error during any phase of the construction stage for this type of complex bridge construction, continuous supervision by Senior Consultant personnel like Sr. Bridge Engineer is deemed mandatory on a full time basis. Accordingly, the Consultant had proposed an additional 10 man months input for the Sr. Bridge Engineer. The same was duly approved during the subsequent EOT proposal, making the revised man months for the Sr. Bridge Engineer to be 28 man months. The cumulative 28 man months already approved are getting exhausted prior to the revised scheduled completion period. It is therefore, proposed to further extend the input of the Sr. Bridge Engineer by a further 13.63 man months. This shall render the cumulative input of the Sr. Bridge Engineer up to scheduled completion date to be 41.63 man months.
- (v) **Sr. Material & Quality Control Engineer:** As per the contract, the Sr. Material & Quality Control Engineer had 15 months input out of 33 months of the original project duration. The Sr. Material & Quality Control Engineer was mobilized to the project intermittently and for the effective supervision of the balance works an additional 9 months is required for the extended period. As the project construction work is entering into a critical phase with superstructure construction works by cast-in-situ method, the input of the Sr. Material and Quality Control Engineer is vital at this juncture. The proposed cumulative input of the Sr. Material and Quality Control Engineer up to the end of the scheduled completion period is 24 man months.
- (vi) **Sr. Bridge Design Specialist:** No man month input of the Sr. Bridge Design Specialist was envisaged during the Construction Supervision Phase in the original consultancy contract. However, owing to the complexity of the structure and the change in design methodology from precast to cast in-situ, it becomes imperative that a Design specialist is required to monitor and guide the construction sequence and the erection sequence of the Extra-dosed cables including the stressing sequence etc. periodically in order to ensure the structural stability and durability pertaining to the Extras dosed cables in particular and the Main bridge in general.
- Accordingly, a total of 3 months input is proposed for the Sr. Design Specialist and the same shall be mobilized intermittently as and when required for the project services. The remuneration and experience criteria for the said Specialist have been considered on the basis of the existing contractual terms for the said position and experience criteria for the Design phase.
- (vii) **Deputy Team Leader:** During the Contract Period the input of the Deputy Team Leader was envisaged for 33 man-months. Due to the replacement of the personnel, there was some man-months leftover from the original contract period and therefore to cover the extended period of 14 months, an additional 5.77 months are now sought. This would make the cumulative input of the Dy. TL to be 38.77 man months till the end of the scheduled completion period.

- (viii) **Contract Engineer:** As per the contract, Contract Engineer has 28 months input out of 33 months of the original project duration. Since the Construction phase has to deal with lot of contractual issues pertaining to Extension of time, Variations and monitoring of construction time scale etc.& also the Sr. Contract Specialist input is intermittent in the project. We are now proposing additional 13.11 man-months more for the extended period. This would make the cumulative input of the Contract Engineer to be 37.11 man months till the end of the scheduled completion period.
- (ix) **Environmental Engineer:** As per the contract, Environmental Engineer has 4 months input out of 33 months of the original project duration. Due to the requirement of the continued monitoring of the construction site with respect to environment issues of the project, an additional 7.46 man months is proposed over the original man-month of 4 months. This would make the cumulative input of the Environmental Engineer to be 11.46 man months till the end of the scheduled completion period.
- (x) **Electrical Engineer:** As per the contract, Electrical Engineer has 2 months input out of 33 months of the original project duration. Since the works of electrification has not yet started, we propose additional 4 man months input over and above the original contract duration, since the scope of work has increased for the location of the toll plaza, static weigh bridge & loading/unloading area as per the request of the Employer /Bangladesh Army. This would make the cumulative input of the Electrical Engineer to be 6 man months till the end of the scheduled completion period.
- (xi) **Social Impact Specialist:** As per the contract, Social Impact Specialist has 4 months input out of 33 months of the original project duration. Since the works of relocation and other essential works are yet to be taken up by the Contractor, we propose an additional 5 months input over the original period. This would make the cumulative input of the Social Impact Specialist to be 9 man months till the end of the scheduled completion period.
- (xii) **Quantity Surveyor:** As per the contract, Quantity Surveyor has 32 months input out of 33 months of the original project duration. Since the position of Quantity Surveyor is important in the project, hence we propose him for the entire duration of the project & seeking 13.17 man months in the extended period. This would render the cumulative input of the Quantity Surveyor to be 45.17 man months till the end of the scheduled completion period.
- (xiii) **Resident Engineer:** As per the contract, RE has 32 months input out of 33 months of the original project duration. The balance man-month left over is 1.90 from the original man-month schedule and the position is important for the supervision phase, hence we propose an additional 12.10 man-months. This would render the cumulative input of the Resident Engineer to be 44.10 man months till the end of the scheduled completion period.
- (xiv) **Material and Quality Control Engineer:** As per the Contract, Material & Quality Control Engineer has 26 months input. The supervision period started on 20.05.2016. Balance input as on 1st May 2019, is 2.44 months; in view of the same we submit a proposal of additional 11.56 months increase in the extended period. This would render the cumulative input of Material and Quality Control Engineer to be 32.56 man months till the end of the scheduled completion period.
- (xv) **Hydraulic / RT Engineer:** As per latest BOQ of Consultancy Contract, Hydraulic/RT Engineer has an input of 24.30 months. Based on the recommendations of the report, Construction drawing for river training work has to be prepared, approved and then construction will take place for the protection of the bridge. As the execution work has not yet started, the input of Hydraulic / RT Engineer is very much important considering the complexity of the implementation works and the request for extension of the position till completion is added as full time, envisaging that the Contractor will start the work of bank protection during the extended period. At present there is an additional requirement of input of 9.67 months. Hence total requirement of input of Hydraulic/RT Engineer shall be 33.97 months till the end of the scheduled completion period.
- (xvi) **Bridge Engineer-1:** As per the Contract, Bridge Engineer has input of 32 months out of 33 months of the supervision period. As the bridge is an extra dosed cable stay bridge, the supervision by the





bridge engineer is important and hence the proposal is for the full extended period by adjusting the balance available. At present there is an additional requirement of input of 13.02 months. Hence total requirement of input of Bridge Engineer shall be 45.52 months till the end of the scheduled completion period.

- (xvii) **Bridge Engineer-2:** As per the Contract, Bridge Engineer has input of 32 months out of 33 months of the supervision period. As the bridge is an extra dosed cable stay bridge, the supervision by the bridge engineer is important and hence the proposal is for the full extended period by adjusting the balance available. At present there is an additional requirement of input of 0.97 months. Hence total requirement of input of Bridge Engineer shall be 33.47 months till the end of the scheduled completion period.
- (xviii) **Bridge Engineer -3:** As the bridge is an extra dosed cable stay bridge, the supervision by the bridge engineer is important and hence the proposal is for the additional input for full extended period. Hence total requirement of input of additional Bridge Engineer shall be 14 man months till the end of the scheduled completion period.
- (xix) **Junior Engineer-1:** As per the Contract, Junior Engineer has input of 32 months out of 33 months of the supervision period. Due to the requirement of the continued supervision of construction work, the request of extension is made. At present there is an additional requirement of input of 5 months. Hence total requirement of input of Bridge Engineer shall be 37 months till the end of the scheduled completion period.
- (xx) **Junior Engineer-2:** As per the Contract, Junior Engineer has input of 32 months out of 33 months of the supervision period. Due to the requirement of the continued supervision of construction work, the request of extension is made. At present there is an additional requirement of input of 15 months. Hence total requirement of input of Bridge Engineer shall be 47 months till the end of the scheduled completion period.
- (xxi) **Junior Engineer-3:** New position is proposed due to the reason that the scope of work for the Bank Protection works, which include CC blocks casting, Dumping of Geobags, CC blocks, and Scour protection works etc. has increased the quantum of works mani-fold than the original scope of works. As the execution work will take place simultaneously on upstream side and Down Stream side, the request is made to have a controlled monitoring of works and for quality of the works. Hence total requirement of input of Junior Engineer shall be 14 man months till the end of the scheduled completion period.

D. Reimbursable:

- (i) **Drafting, Reproduction of Reports:** Since the quantum of works towards documentation has increased, a nominal increase in the provision for this item has been made.
- (ii) **International Travel Cost (Supervision Phase):** Due to extension of Contract period from 54 months to 89 months & due to increase in the input of various experts namely, Sr. Material Engineer, and Sr. Contract Specialist, there is a need to modify the provision towards international travel costs, which has been carried out as per details given in Financial summary sheet attached.
- (iii) **Support Staff (Supervision Phase):** As envisaged in the original contract, the man months input of the CAD Operator and Surveyor during the construction supervision phase were 18 and 20 months respectively. But the proposed Supervision period is 49 months and to match with that additional input of 17 and 34 months are proposed respectively for CAD Operator and Surveyor, since the existing Man-months have already been exhausted at present.

In addition to the above, as the Contractor is proceeding with the Change in methodology of the Superstructure construction, the above positions are very essential for the supervision works w.e.f. 1st May 2019 onwards up to 30th June 2020 for effective & efficient site supervision and quality control on the project. During the construction of superstructure, timely review by designer is needed as construction & erection of Extra-dosed cables is a continuous process. Also Design solutions in case of conflict issues of this type of complex structure like profile corrections,



[Signature] *[Signature]*



reinforcement /cable positioning and stay cable adjustment are required during execution.

Based on above facts, as desired, we are enclosing herewith the revised cost estimate in the format 5B2, 5B3, 5B4 & Summary of Costs as desired, for your kind perusal as per Annexures enclosed.

FORM 5B3: Breakdown of Costs By Activity

Item		Cost (Original Contract)			Cost (As per Approved Addendum-1)			Cost (As per Proposed Addendum-2)		
S. No.	Cost Component	USD	BDT	Equivalent BDT	USD	BDT	Equivalent BDT	USD	BDT	Equivalent BDT
1	Design Phase (Design & Selection of Contractor Period)	3,15,100	1,46,78,500		4,03,875	1,77,99,650		3,56,763.93	2,03,03,770	
2	Construction Supervision Phase (Construction & Defect Liability period)	12,75,300	6,66,68,500		12,75,300	6,66,68,500		20,08,674.32	7,76,10,670	
	Total Costs (Excluding VAT & IT)	15,90,400	81,347,000	207,783,800	1,679,175	84,468,150	217,962,563	2,365,438.25	97,914,440	28,59,66,780.88
	VAT & IT									
	VAT @ 15%		3,11,67,570			3,26,94,384			4,28,95,017.13	
	IT		2,07,78,380			2,17,96,256			5,71,84,572.93	
	Total for VAT & IT		5,19,45,950			5,44,90,641			10,00,79,590.06	
		15,90,400	133,292,950	259,729,750	1,679,175	138,958,791	272,453,203	2,347,938.25	197,994,030.06	386,046,370.94

Exchange Rate: 01 US\$=BDT 79.50 (As per Original Contract)

From the above, it may kindly be seen that there is an additional requirement of funds amounting to USD 681,774 and BDT 27,488,170 up to 30th June 2020 for this project. The revised Contract amount up to 30th June 2021 including DLP of 12 months will be USD 2,365,438.25 and BDT 97,914,440 as mentioned in the Summary of costs & in Financial Summary Sheets, attached for ready reference as Annexure-I, II & III).

Keeping in view the above, it is requested that our proposal for extension of time with financial implications may kindly be approved.

Thanking you and assuring you of our best services at all times.

For ICT-KUNHWA-NARCO-EPC JV

(Prashant Kapila)

Authorized Representative &
Chief Operating Officer

Encl.: Financial Summary Sheets of EOT up to 30 June 2020.

Copy to :

1. Chief Engineer, RHD, Sarak Baban, Tejgaon, Dhaka
2. Project Manager, (EE,RHD), Paira Bridge Project, BRRL, Paikpara, Mirpur, Dhaka



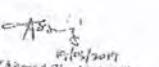
SUMMARY OF COSTS

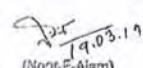
Design and Construction Supervision for Pairs Bridge (Lebukhali Bridge) over the River Pairs on Barisal - Patuakhali Road, Bangladesh

Item	Costs (As per Original Contract)			Costs (As per approved Addendum-1)			Costs (As per proposed Addendum 02)		
	US Dollar	BDT	Equivalent BDT	US Dollar	BDT	Equivalent BDT	US Dollar	BDT	Equivalent BDT
Design Phase (Design & Selection of Contractor Period)	315,100.00	14,678,500.00		403,875.00	17,799,650.00		356,763.93	20,300,770.00	
Construction-Supervision Phase (Construction & Defect Liability period)	1,275,300.00	60,668,500.00		1,775,300.00	68,668,500.00		2,008,674.32	77,610,670.00	
TOTAL costs (excluding VAT & IT)	1,590,400.00	81,347,000.00	207,783,800.00	1,879,175.00	84,468,150.00	217,962,562.50	2,365,438.25	97,914,440.00	285,916,760.98
VAT & IT									
VAT @15%		31,167,570.00			32,694,384.38			42,685,017.13	
IT		20,778,380.00			21,798,250.25			57,184,572.93	
Total for VAT & IT		51,945,950.00			54,490,640.63			100,869,589.06	
Total Amount (including VAT & IT)	1,590,400.00	133,292,950.00	259,729,750.00	1,879,175.00	138,958,799.63	272,453,200.13	2,365,438.25	197,994,030.06	360,045,370.94

Conversion Rate: 01 US\$=BDT 79.50 (As per Original Contract)


BC Dinesh
IC Team Leader
ICT-Kuntrava-NARCO-EPC JV
Pairs Bridge (Lebukhali) Project, BD


Md. Nazrul Islam
(Ahmed Sharif's Stamp)
Project Manager (E&I, I&C)
Pairs Bridge (Lebukhali Bridge)
Construction Project


Md. Nazrul Islam
(Nazrul Islam)
ID No.: 231999016074
Project Director, S5, CCI FHD
Pairs Bridge (Lebukhali Bridge) Project





FORM SB2 : SUMMARY OF COSTS

Design and Construction Supervision for Pairs Bridge (Lebukhali Bridge) over the River Pairs on Barishali - Patuakhali Road, Bangladesh

Item	Costs (Original Contract)			Costs (Approved Addendum-1)			Costs (Approved for months time extension and quantity adjustment)			Costs (Approved 2 Months Time extension and quantity adjustment)			Costs (Proposed Time extension and quantity adjustment /Addendum 6)		
	US Dollar	BDT	Equivalent BDT	US Dollar	BDT	Equivalent BDT	US Dollar	BDT	Equivalent BDT	US Dollar	BDT	Equivalent BDT	US Dollar	BDT	Equivalent BDT
Design Phase (Design & Selection of Contractor Period)	315,100.00	14,674,600.00		403,876.00	17,709,650.00		359,763.03	20,449,070.00		356,763.00	20,303,770.00		356,763.00	20,303,770.00	
Construction-Supervision Phase	1,275,300.00	56,098,500.00		1,275,300.00	60,668,500.00		1,275,300.00	67,763,500.00		1,263,500.00	68,782,500.00		2,008,674.32	77,610,670.00	
TOTAL costs (including VAT & IT)	1,590,400.00	61,347,000.00	201,783,800.00	1,679,179.00	84,468,150.00	217,962,562.50	1,632,063.83	89,713,470.00	217,962,562.44	1,620,061.88	89,696,870.00	217,969,007.44	2,365,438.25	97,514,440.00	285,965,780.00

Exchange Rate: 01 US\$=BDT 71.50 (As per Original Contract)


BC Dinesh
 As Team Leader
 ICT-Unitives-NARCO-EPC JV
 Pairs Bridge (Lebukhali Bridge) Project, 104


 19/03/2019
 (Noor-E-Alam)
 ID No. 23199015074
 Project Director, SE, CCI, R&D
 Pairs Bridge (Lebukhali Bridge)
 Construction Project



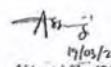
FORM SB3 : BREAKDOWN OF COSTS BY ACTIVITY

Design and Construction Supervision for Pairs Bridge (Lebukhali Bridge) over the River Pairs on Barishal - Patuakhali Road, Bangladesh

Group of Activities : Design Phase (Design & Selection of Contractor's Period)		Costs (Original Contract)		Costs (Approved Addendum-1)		Costs (Approved Time extension and quantity adjustment)		Costs (Proposed Time extension and quantity adjustment)	
Sl. No.	Cost Component	US\$	BDT	US\$	BDT	US\$	BDT	US\$	BDT
1	Remuneration	253,500.00	6,515,000.00	325,425.00	7,061,150.00	285,125.00	8,369,150.00	285,125.00	8,369,150.00
2	Reimbursable Expenses	61,600.00	8,163,500.00	78,450.00	10,738,500.00	71,638.93	12,000,820.00	71,638.93	11,934,620.00
	Subtotals	315,100.00	14,678,500.00	403,875.00	17,799,650.00	356,763.93	20,449,970.00	356,763.93	20,303,770.00

US\$: United States Dollar
BDT: Bangladesh Taka


BC Dinesh
 JV Team Leader
 KCF-Kumhwa-NARCO-EPC JV
 Pairs Bridge (Lebukhali) Project, BD


 17/03/2011
(Md. Sharif Shajib)
 (Noor-E-Alam)
 Project Manager (ER, RFD)
 Pairs Bridge (Lebukhali Bridge)
 Construction Project




FORM 8D4: BREAKDOWN OF REMUNERATION

Design and Construction Supervision for Pairs Bridge (Lebukhali Bridge) over the River Pairs on Barishal - Patuakhali Road, Bangladesh

Design Phase (Design & Selection of Contractor's Period)

Sl. No.	Name	Position	Input	Original Contract				Approved Addendum-1				Approved 01 Month time extension and quantity adjustment				Approved 02 Month time extension and quantity adjustment			
				Staff-Month Rate		Quantity (Staff-months)	Total Amount		Quantity (Staff-months)		Total Amount		Quantity (Staff-months)		Total Amount		Proposed Total Quantity	Total Amount	
				US\$	BDT		US\$	BDT	US\$	BDT	US\$	BDT	US\$	BDT					
INTERNATIONAL STAFF																			
Key Professionals																			
1	Jurgen H.H. Dobecker	Team Leader / Sr. Bridge Engineer	Home	13,000.00	-	-	-	-	-	-	-	-	-	-	-	-			
			Field	13,000.00	-	8.00	104,000.00	-	12.00	156,000.00	-	8.80	114,400.00	-	8.60	114,400.00			
2	Suresh Nagash	Sr. Contract Specialist	Home	10,000.00	-	-	-	-	-	-	-	-	-	-	-	-			
			Field	10,000.00	-	3.50	35,000.00	-	5.50	55,000.00	-	5.63	58,200.00	-	5.63	58,200.00			
3	Taraniran Nalk	Sr. Bridge Design Specialist	Home	10,500.00	-	-	-	-	-	-	-	-	-	-	-	-			
			Field	10,500.00	-	5.00	52,500.00	-	7.25	76,125.00	-	7.25	76,125.00	-	7.25	76,125.00			
4	Manzurul Islam/ Kanti Prasad Dutta/Firz	Sr. Foundation / Geotechnical Engineer	Home	10,000.00	-	-	-	-	-	-	-	-	-	-	-	-			
			Field	10,000.00	-	3.00	30,000.00	-	6.03	6,000.00	-	6.03	6,000.00	-	6.03	6,000.00			
5	Kim, Jong Gab	Sr. Hydraulics / R.T. Engineer	Home	15,000.00	-	-	-	-	-	-	-	-	-	-	-	-			
			Field	10,000.00	-	2.00	32,000.00	-	2.00	32,000.00	-	2.00	32,000.00	-	2.00	32,000.00			
Sub Total					21.50	253,500.00	-	27.38	325,425.00	-	24.31	265,125.00	-	24.31	265,125.00				
LOCAL STAFF																			
Key Professionals																			
6	M.J. Zohul Islam/ Shafiqul Karim	Deputy Team Leader	Home	-	200,000.00	-	-	-	-	-	-	-	-	-	-	-			
			Field	-	200,000.00	8.00	-	1,600,000.00	9.03	-	1,800,000.00	15.57	-	3,114,000.00	15.57	-	3,114,000.00		
7	Md. Nara Islam	Contract Engineer	Home	-	140,000.00	-	-	-	-	-	-	-	-	-	-	-			
			Field	-	140,000.00	7.00	-	180,000.00	7.50	-	1,050,000.00	7.50	-	1,050,000.00	7.50	-	1,050,000.00		
8	M A Monin Khondaker	Environmental Engineer	Home	-	100,000.00	-	-	-	-	-	-	-	-	-	-	-			
			Field	-	100,000.00	4.00	-	400,000.00	5.00	-	500,000.00	5.00	-	500,000.00	5.00	-	500,000.00		
9	Mustafa Kamal	Electrical Engineer	Home	-	130,000.00	-	-	-	-	-	-	-	-	-	-	-			
			Field	-	130,000.00	1.00	-	130,000.00	1.50	-	195,000.00	1.50	-	195,000.00	1.50	-	195,000.00		
10	Humayun Kader	Social Impact Specialist	Home	-	130,000.00	-	-	-	-	-	-	-	-	-	-	-			
			Field	-	130,000.00	4.00	-	520,000.00	5.00	-	650,000.00	5.00	-	650,000.00	5.00	-	650,000.00		
11	Md. Iqbal Hussain	Quantity Surveyor	Home	-	80,000.00	-	-	-	-	-	-	-	-	-	-	-			
			Field	-	80,000.00	6.00	-	480,000.00	11.00	-	880,000.00	11.00	-	880,000.00	11.00	-	880,000.00		
12	B.M. Ariful Hoque	Hydraulics / R.T. Engineer	Home	-	140,000.00	-	-	-	-	-	-	-	-	-	-	-			
			Field	-	140,000.00	4.00	-	560,000.00	2.00	-	280,000.00	2.00	-	280,000.00	2.00	-	280,000.00		
13	Muhammad Shahjahan/ Muhammad Ali	Highway Design Engineer	Home	-	140,000.00	-	-	-	-	-	-	-	-	-	-	-			
			Field	-	140,000.00	2.00	-	280,000.00	3.00	-	420,000.00	3.00	-	420,000.00	3.00	-	420,000.00		
14	Prodp Kumar Saha/ Manik Lal Mandal	Structural Design Engineer	Home	-	140,000.00	-	-	-	-	-	-	-	-	-	-	-			
			Field	-	140,000.00	6.00	-	840,000.00	4.10	-	574,000.00	4.10	-	574,000.00	4.10	-	574,000.00		
15	Md. Tajuddin	Foundation / Geotechnical Engineer	Home	-	145,000.00	-	-	-	-	-	-	-	-	-	-	-			
			Field	-	145,000.00	5.00	-	725,000.00	4.87	-	706,150.00	4.87	-	706,150.00	4.87	-	706,150.00		
Sub Total					47.00	-	6,515,000.00	53.00	-	7,061,150.00	59.54	-	8,369,150.00	59.54	-	8,369,150.00			
TOTAL CARRIED TO SUMMARY					68.50	253,500.00	6,515,000.00	80.38	225,425.00	7,061,150.00	53.85	209,125.00	8,369,150.00	83.85	285,125.00	8,369,150.00			

US\$: United States Dollar
BDT: Bangladesh Taka

19/05/2011
(Ahmed Sharif Shahid)
Project Manager (EE, RHD)
Pairs Bridges (Lebukhali Bridge)

BANGLADESH
Joint Venture
CT-Authorized-NARCO-EPC JV
Pairs Bridge (Lebukhali Bridge)

19/05/2011
(Noveel Alam)
ID No. 211998015074
Project Director, SE, CCL, RHD
Pairs Bridge (Lebukhali Bridge)



FORM 5B5 : BREAKDOWN OF REIMBURSABLE EXPENSES

Design and Construction Supervision for Pairs Bridge (Lebukhali Bridge) over the River Pairs on Barishali - Patuakhali Road, Bangladesh

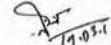
a. Reimbursable Expenses in Design Phase (Design & Selection of Contractor's period) (International)

Sl. No.	Description	Unit	Original Contract				Approved Addendum-1				Approved 07 months time extension and quantity adjustment			Approved 2 Months time extension and quantity adjustment		
			Unit Cost		Total Amount		Total Amount		Quantity	Total Amount		Proposed additional quantity	Proposed Total Quantity	Total Amount		
			US\$	BDT	Quantity	US\$	BDT	US\$	BDT	US\$	BDT	US\$		BDT		
1	Residential accommodation for long term expatriate personnel	Month	1,260.00	-	8.00	10,000.00	-	12.00	15,000.00	-	9.50	11,875.00	-	9.50	11,875.00	-
2	Setting of Team Leader's house	LS	2,500.00	-	1.00	2,500.00	-	1.00	2,500.00	-	1.00	2,500.00	-	1.00	2,500.00	-
3	Per Diem for short-term expatriate personnel	Day	100.00	-	420.00	42,000.00	-	460.00	48,000.00	-	484.00	48,400.00	-	484.00	48,400.00	-
4	International Travel Cost					-	-	-	-		-	-	-	-	-	-
	Delhi - Dhaka - Delhi (Original Design and Selection of Contractor's period)	RT	500.00	-	5.00	2,500.00	-	6.00	2,500.00	-	5.00	1,807.50	-	5.00	1,807.50	-
	Delhi - Dhaka - Delhi (Additional Selection of Contractor's period)	RT	350.00	-	-	-	-	3.00	1,050.00	-	4.00	1,400.00	-	4.00	1,400.00	-
	Korea - Dhaka - Korea (Original Design and Selection of Contractor's period)	RT	1,600.00	-	2.00	3,200.00	-	2.00	3,200.00	-	2.00	2,656.12	-	2.00	2,656.12	-
	Korea - Dhaka - Korea & others (Additional Selection of Contractor's period)	RT	1,800.00	-	-	-	-	3.00	4,800.00	-	1.00	1,600.00	-	1.00	1,600.00	-
5	Miscellaneous Expenses for Travel (visa, local transport, Insurance, etc)	RT	200.00	-	7.00	1,400.00	-	7.00	1,400.00	-	7.00	1,400.00	-	7.00	1,400.00	-
	TOTAL COSTS					61,600.00			78,450.00	-	-	71,638.93	-	-	71,638.93	-

US\$: United States Dollar
BDT: Bangladesh Taka


BC Dinesh
 As Team Leader
 ICT-Authorised NARCO-EPC JV
 Pairs Bridge (Lebukhali) Project, RHD


 19/01/2015
 (Ahmad Sharif Shahid)
 Project Manager (SE, RHD)
 Pairs Bridge (Lebukhali Bridge)
 Construction Project


 (Mofiz-E-Alam)
 ID No. 23198913074
 Project Director, SE, CCL, RHD
 Pairs Bridge (Lebukhali) Construction Project




FORM 5B5 : BREAKDOWN OF REIMBURSABLE EXPENSES

Design and Construction Supervision for Paita Bridge (Lebihal Bridge) over the River Paita on Barishal - Patuakhali Road, Bangladesh

6. Reimbursable Expenses in Design Phase (Design & Selection of Contractor's Period) (National)

Sl. No.	Description	Unit	Original Contract			Approved Addendum-1			Approved 07 months time extension and quantity adjustment			Approved 2 Months time extension and quantity adjustment		
			Unit Cost		Quantity	Total Amount		Quantity	Total Amount		Proposed additional quantity	Proposed total quantity	US\$	BDT
			US\$	BDT		US\$	BDT		US\$	BDT				
1	Out of pocket expenses for National staff and the Team Leader	Day	-	2,000.00	95.00	-	190,000.00	65.00	-	190,000.00	95.00	-	190,000.00	95.00
2	Communication Cost, telecommunication cost including cellular phone, e-mail, fax, postage, courier etc	Month	-	15,000.00	9.00	-	135,000.00	18.00	-	270,000.00	25.00	-	375,000.00	25.00
3	Drafting, Reproduction of Reports													
	i) Inspection Report	Copy	-	2,800.00	10.00	-	20,000.00	10.00	-	20,000.00	10.00	-	20,000.00	10.00
	ii) Program Report (Monthly)	Copy	-	300.00	45.00	-	13,500.00	45.00	-	13,500.00	45.00	-	12,300.00	(4.00)
	iii) Hydrology and Morphology Study Report	Copy	-	2,000.00	7.00	-	14,000.00	7.00	-	14,000.00	7.00	-	14,000.00	7.00
	iv) Design Report and Drawings	Set	-	20,000.00	9.00	-	180,000.00	9.00	-	180,000.00	9.00	-	180,000.00	9.00
	v) Draft Tender Documents	Set	-	5,000.00	5.00	-	25,000.00	5.00	-	25,000.00	5.00	-	25,000.00	5.00
	vi) Final Tender Documents	Set	-	5,000.00	30.00	-	150,000.00	30.00	-	150,000.00	30.00	-	150,000.00	30.00
	vii) Land acquisition plan	Set	-	7,000.00	10.00	-	70,000.00	10.00	-	70,000.00	10.00	-	70,000.00	10.00
	viii) Environmental Management Plans	Set	-	5,000.00	7.00	-	35,000.00	7.00	-	35,000.00	7.00	-	35,000.00	7.00
	ix) Social Action Plans	Set	-	3,000.00	7.00	-	21,000.00	7.00	-	21,000.00	7.00	-	21,000.00	7.00
	x) Quarterly Report	Set	-	2,000.00	18.00	-	36,000.00	18.00	-	45,000.00	18.00	-	45,000.00	(18.00)
	xi) Project Completion Report	Set	-	10,000.00	10.00	-	100,000.00	10.00	-	100,000.00	10.00	-	100,000.00	(10.00)
	Rental office accommodation including all furniture, equipments, software, consumables, utility charges, electricity, etc (Original Design and Selection of Contractor's period)	Month	-	100,000.00	6.00	-	1,200,000.00	6.00	-	1,200,000.00	6.00	-	1,200,000.00	6.00
1	Rental office accommodation [Proposed Artificial Extension of Contractor's period]	Month	-	35,000.00	-	-	315,000.00	16.00	-	560,000.00	16.00	-	560,000.00	16.00
5	Other transportation													
	Vehicles on rental basis including operation and maintenance	Vehicle Month	-	80,000.00	38.00	-	2,880,000.00	51.00	-	4,640,000.00	58.00	-	4,640,000.00	58.00
6	Survey / study / investigation													
	i) Topographic survey	LS	-	120,000.00	1.00	-	120,000.00	1.00	-	120,000.00	1.00	-	120,000.00	1.00
	ii) Geotechnical Investigation	LS	-	950,000.00	1.00	-	950,000.00	1.00	-	950,000.00	1.00	-	950,000.00	1.00
	iii) Hydrological study / survey	LS	-	150,000.00	1.00	-	150,000.00	1.00	-	150,000.00	1.00	-	150,000.00	1.00
	iv) Morphological study / survey	LS	-	200,000.00	1.00	-	200,000.00	1.00	-	200,000.00	1.00	-	200,000.00	1.00
	v) Environmental study / survey	LS	-	100,000.00	1.00	-	100,000.00	1.00	-	100,000.00	1.00	-	100,000.00	1.00
	vi) Resettlement / social survey	LS	-	150,000.00	1.00	-	150,000.00	1.00	-	150,000.00	1.00	-	150,000.00	1.00
7	Support Staff													
	i) Office Manager / Secretary	Month	-	30,000.00	9.00	-	270,000.00	18.00	-	540,000.00	24.67	-	740,100.00	24.67
	ii) Accountant	Month	-	30,000.00	6.00	-	180,000.00	12.00	-	360,000.00	12.00	-	360,000.00	12.00
	iii) Computer Operator	Month	-	25,000.00	9.00	-	225,000.00	18.00	-	450,000.00	21.26	-	531,500.00	21.26
	iv) (a) CAD Operator-1	Month	-	35,000.00	6.00	-	210,000.00	6.00	-	210,000.00	6.00	-	210,000.00	6.00
	iv) (b) CAD Operator-2	Month	-	35,000.00	6.00	-	210,000.00	6.00	-	210,000.00	6.00	-	210,000.00	6.00
	v) Photocopy Machine Operator	Month	-	12,000.00	6.00	-	72,000.00	12.00	-	144,000.00	17.03	-	204,360.00	17.03
	vi) (a) Office Assistant, Messenger, etc-1	Month	-	12,000.00	6.00	-	72,000.00	15.00	-	180,000.00	21.03	-	232,360.00	21.03
	vi) (b) Office Assistant, Messenger, etc-2	Month	-	12,000.00	8.00	-	72,000.00	7.50	-	90,000.00	7.50	-	90,000.00	7.50
	vii) Laboratory Technician	Month	-	30,000.00	3.00	-	90,000.00	3.00	-	90,000.00	3.00	-	90,000.00	3.00
	TOTAL COSTS						8,163,503.00			16,738,896.00				11,934,620.03

US\$- United States Dollar
BDT- Bangladesh Taka

05 of 09

A/S
14/01/2017BC Dinesh
Deputy Director
Tunisia-NARCO-EPC JV
Ratnabali (Latrabji) Project, RHD19/03/17
(Not E-Signed)
10 No. 231019945074
Project Director, SE (CC),
Project Manager, Safety Controller

FORM 6B3 : BREAKDOWN OF COSTS BY ACTIVITY

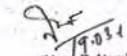
Design and Construction Supervision for Palra Bridge (Lebukhali Bridge) over the River Palra on Barishal - Patuakhali Road, Bangladesh

Group of Activities : Construction Supervision Phase (As per Contract)		Costs (Original Contract)		Costs (Approved Addendum-1)		Costs (Approved Time extension and quantity adjustment)		Costs (Approved 2 Months Time extension and quantity adjustment)		Costs (Proposed extension and quantity adjustment / Addendum 02)(including 12 Months DLP)	
Sl. No.	Cost Component	US\$	BDT	US\$	BDT	US\$	BDT	US\$	BDT	US\$	BDT
1	Remuneration	1,130,000.00	31,700,000.00	1,130,000.00	31,700,000.00	1,130,000.00	32,795,000.00	1,120,000.00	33,044,000.00	1,686,110.00	49,658,450.00
2	Reimbursable Expenses	145,300.00	34,968,500.00	145,300.00	34,968,500.00	145,300.00	34,968,500.00	143,900.00	35,748,500.00	322,564.32	27,952,220.00
	Subtotals	1,275,300.00	66,668,500.00	1,275,300.00	66,668,500.00	1,275,300.00	67,763,500.00	1,263,000.00	68,702,500.00	2,008,674.32	77,610,670.00

US\$: United States Dollar
BDT: Bangladesh Taka


BC Dinesh
 As Team Leader
 IC Engineering-NARCO-EPC JV
 Palra Bridge (Lebukhali) Project, RHD


 (17/12/2019)
(Ahmad Sharif Shahib)
 Project Manager (SE, RHD)
 Palra Bridge (Lebukhali Bridge)
 Construction Project


(Noor-E-Alam)
 ID No. 23198015074
 Project Director, SE, CC, RHD
 Palra Bridge (Lebukhali) Construction Project



FORM 204: BREAKDOWN OF REMUNERATION

Design and Construction Supervision At Paro Bridge (Sat-Ahat Bridge) over the River Paita or Burial - Fazlullah Road, Bangladesh

Infrastructure Supervision Phase

Sl. No.	Name	Position	Original Contract				Approved Amendment 1		Approved 6 months time extension and quantity adjustment		Approved 12 months time extension and quantity adjustment		Proposed time extension and quantity adjustment (Additional 6M, Total Construction Supervision Period 48-50 Months)					
			Unit Cost		Quantity		Total Amount		Quantity		Total Amount		Quantity					
			USD	BDT	USD	BDT	USD	BDT	USD	BDT	USD	BDT	USD	BDT				
INTERNATIONAL STAFF																		
1	Aargon KTH Rashedul Alexander Dangovik Engineer	Team Leader / Sr. Bridge Engineer	Home	13,000.00	-	-	-	-	-	-	-	-	-	-				
2	Suresh Nayak	St. Chemist Supervisor	Field	19,000.00	34.00	442,000.00	-	34.00	442,000.00	-	34.00	442,000.00	-	(0.40)	33.10	439,000.00		
3	Swapan Kumar Basu	St. Production & General Civil Engineer	Home	11,050.00	-	-	-	-	-	-	-	-	-	-	-			
4	Kim, Jong Gold Tapas K. Das	St. Hydraulics / R/T Engineer	Field	11,020.00	10.00	114,000.00	-	14.00	154,000.00	-	13.00	139,000.00	-	0.04	32.14	242,440.00		
5	KM. Md. Alimul Khan	St. Bridge Engineer	Home	13,000.00	-	-	-	-	-	-	-	-	-	-	-			
6	KM. Md. Alimul Khan	St. Bridge Engineer	Field	17,000.00	-	18.00	324,000.00	-	2.00	32,000.00	-	4.00	84,000.00	-	12.24	14.24	332,440.00	
7	BC Dinesh	Project Manager	Home	17,000.00	-	-	-	-	-	-	-	-	-	-	-			
8	BC Dinesh	Project Manager	Field	17,000.00	-	-	-	-	-	-	-	-	-	-	-			
9	Shah Ahsan Ali	St. Material and Quality Control Engineer	Field	8,000.00	-	15.00	120,000.00	-	15.00	120,000.00	-	15.00	120,000.00	-	0.00	24.00	182,000.00	
10	D. Venkateswaran	St. Bridge Design Supervisor	Field	19,000.00	-	-	-	-	-	-	-	-	-	-	1.00	16.00	162,000.00	
11	Gautham Chidambaram O. Venkateswaran	QA & QA Specialist	Field	8,000.00	-	-	-	-	-	-	-	-	-	-	3.00	2.00	21,000.00	
12	Sub-Total		Field	8,000.00	2.00	16,000.00	-	2.00	16,000.00	-	2.00	16,000.00	-	-	2.00	16,000.00	-	
LOCAL STAFF			Home	81,440.00	1,320,000.00	-	\$1,440,000.00	-	\$1,440,000.00	-	\$1,440,000.00	-	\$1,440,000.00	-	748.81	1,066,118.00	-	
Key Professionals																		
13	Md. Zafarul Islam Md. Md. Sharminul Islam	Welding Team Leader	Home	-	210,070.00	-	-	-	-	-	-	-	-	-	-	-		
14	Md. Md. Sharminul Islam	Welding Team Leader	Field	-	214,000.00	31.00	6,536,000.00	33.00	-1,980,000.00	33.00	-	6,536,000.00	33.00	6,536,000.00	33.00	7.77	28.77	-
15	Abdul Karim Chowdhury Rashedul Khan	General Engineer	Home	-	123,300.00	-	-	-	-	-	-	-	-	-	-	-		
16	Abdul Karim Chowdhury Rashedul Khan	General Engineer	Field	-	150,000.00	38.00	4,200,000.00	29.00	4,200,000.00	26.00	4,200,000.00	24.00	4,200,000.00	21.00	8.11	37.21	-	
17	M.A. Hossain Khanul Islam	Electrical Engineer	Field	-	100,000.00	4.00	400,000.00	4.00	400,000.00	4.00	400,000.00	4.00	400,000.00	4.00	7.48	11.43	-	
18	Muzammil Karim	Electrical Engineer	Home	-	130,000.00	-	-	-	-	-	-	-	-	-	-	-		
19	Muzammil Karim	Electrical Engineer	Field	-	130,000.00	2.00	300,000.00	2.00	300,000.00	2.00	300,000.00	2.00	300,000.00	2.00	4.00	6.00	-	
20	Patroque Khan	Total Project Supervisor	Field	-	150,000.00	4.00	600,000.00	4.00	600,000.00	4.00	600,000.00	4.00	600,000.00	4.00	8.00	12.00	-	
21	Md. Md. Md. Khanul Islam	Quality Surveyor	Field	-	90,000.00	-	-	-	-	-	-	-	-	-	-	-		
22	Patroque Khan	Quality Surveyor	Field	-	90,000.00	37.00	2,880,000.00	37.00	2,880,000.00	36.00	2,880,000.00	36.00	2,880,000.00	36.00	13.17	45.17	-	
23	Patroque Khan	Quality Surveyor	Home	-	120,000.00	-	-	-	-	-	-	-	-	-	-	-		
24	Patroque Khan	Quality Surveyor	Field	-	120,000.00	37.00	4,560,000.00	37.00	4,560,000.00	36.00	4,560,000.00	36.00	4,560,000.00	36.00	12.10	44.10	-	
25	Patroque Khan	Quality Surveyor	Field	-	85,000.00	-	-	-	-	-	-	-	-	-	-	-		
26	Patroque Khan	Quality Surveyor	Field	-	85,000.00	29.00	2,590,000.00	28.00	2,590,000.00	26.00	2,590,000.00	25.00	2,590,000.00	24.00	1,788,000.00	6.54	32.58	-
27	ADM. Hossain Md. Khanul Islam	Hydraulics / R/T Engineer	Home	-	120,000.00	-	-	-	-	-	-	-	-	-	-	-		
28	ADM. Hossain Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	120,000.00	6.00	900,000.00	6.00	900,000.00	13.20	1,893,000.00	24.20	2,645,000.00	27.97	33.97	-		
29	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	120,000.00	-	-	-	-	-	-	-	-	-	-	-		
30	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	120,000.00	32.00	3,840,000.00	32.00	3,840,000.00	32.00	3,840,000.00	32.00	3,840,000.00	32.00	13.52	45.52	-	
31	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
32	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	32.00	2,400,000.00	32.00	2,400,000.00	20.00	2,400,000.00	18.00	2,400,000.00	16.00	33.47	2.01	20.00	-
33	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
34	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
35	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
36	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
37	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
38	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
39	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
40	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
41	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
42	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
43	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
44	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
45	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
46	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
47	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
48	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
49	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
50	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
51	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
52	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
53	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
54	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
55	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
56	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
57	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
58	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
59	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
60	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
61	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
62	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
63	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
64	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
65	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
66	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
67	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
68	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
69	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
70	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-	-	-	-	-	-	-	-	-	-	-		
71	Md. Md. Md. Khanul Islam	Hydraulics / R/T Engineer	Field	-	75,000.00	-												

FORM 5BS : BREAKDOWN OF REIMBURSABLE EXPENSES

Design and Construction Supervision for Paita Bridge (Lebukhali Bridge) over the River Paita on Barishal - Patuakhali Road, Bangladesh

a. Reimbursable Expenses in Construction Supervision Phase (International)

SL No.	Description	Unit	Original Contract				Approved Addendum-1		Approved 07 months time extension and quantity adjustment				Approved 02 months time extension and quantity adjustment		Proposed time extension and quantity adjustment (Addendum 02)					
			Unit Cost		Quantity	Total Amount		Quantity	Total Amount		Quantity	Total Amount		Quantity	Total Amount		Additional quantity	Proposed Total Quantity	Total Amount	
			US\$	BDT		US\$	BDT		US\$	BDT		US\$	BDT		US\$	BDT			US\$	BDT
1	Residential accommodation for long term expatriate personnel	Month	1,250.00	-	82.00	102,500.00	-	82.00	102,500.00	-	82.00	102,500.00	-	82.00	102,500.00	-	(78.66)	5.44	6,800.00	-
2	Per Diem for short-term expatriate personnel	Day	100.00	-	300.00	30,000.00	-	300.00	30,000.00	-	300.00	30,000.00	-	300.00	30,000.00	-	(24.00)	278.00	27,500.00	-
3	International Travel Cost																			
	Delta - Dhaka - Delta	RT	500.00	-	8.00	4,000.00	-	8.00	4,000.00	-	8.00	4,000.00	-	18.00	9,000.00	-	50.50	58.50	28,392.00	-
	Korea - Dhaka - Korea	RT	1,600.00	-	4.00	6,400.00	-	4.00	6,400.00	-	4.00	6,400.00	-	-	-	-	-	-	-	-
4	Miscellaneous Expenses for Travel (visé, local transport, insurance, etc)	RT	200.00	-	12.00	2,400.00	-	12.00	2,400.00	-	12.00	2,400.00	-	12.00	2,400.00	-	29.00	41.00	8,200.00	-
5	Provisional Sum																			
	Arrangement of Training/Study Tour - (Previously it was considered in b. Reimbursable expenses in construction supervision phase 1 (National). As per 1st RDPP, payment will be made directly through KF-AED (DPA). So the provisional fund of 20,000,000.00, i.e., equivalent USD 261,572.32**																	1.00	261,572.32	-
TOTAL COSTS						145,300.00	-		145,300.00	-		145,300.00	-		143,000.00	-			322,564.32	-

US\$: United States Dollar

BDT: Bangladeshi Taka

** Training Fund shall be utilized in the following mode:

a) The Consultant shall submit estimate for the training programme. After approval of the estimate the client shall make payment for Air Tickets, Per diem allowance on submission of voucher.

b) 50% advance payment shall be made for conducting training programme i.e., training venue and operation cost after approval of the training programme.

[Signature]
BC Dinesh
No Team Leader
CT-Authorised NARCO-EPC JV
www.narco-epc.com.bd

[Signature]
Noor-E-Alam
ID No. 231958015974
Project Director, SE, CCL RND
Paita Bridge (Lebukhali Bridge) Project

[Signature]
17/03/2011
(Ahmed Sharif Shahid)
Project Manager (EE, RND)
Paita Bridge (Lebukhali Bridge)
Consulting Project

08/05/09



[Signature]

FORM SDS : BREAKDOWN OF REIMBURSABLE EXPENSES

Design and Construction Supervision for Pairs Bridge (Lebukhan Bridge) over the River Pairs on Barisal - Patuakhali Road,
Bangladesh

b. Reimbursable Expenses in Construction Supervision Phase (National)

Sl. No.	Description	Unit	Original Contract			Approved Addendum-1			Approved 02 months time extension and quantity adjustment			Approved 02 months time extension and quantity adjustment			Proposed time extension and quantity adjustment (Addendum 03)		
			Unit Cost		Quantity	Total Amount		Opening Total Amount US\$ BDT	Quantity	Total Amount US\$ BDT	Total Quantity US\$ BDT	Total Amount US\$ BDT	Proposed time extension Quantity	Proposed time extension Quantity	Total Amount US\$ BDT		
			US\$	BDT		US\$	BDT										
1	Per Diem for National Staff and Long Term separate staff	Day	-	2,000.00	224.00	-	448,000.00	224.00	-	448,000.00	224.00	-	448,000.00	242.00	456.00	-	492,000.00
2	Communication Cost, telecommunication cost including cellular phone, email, fax, postage, courier etc	Month	-	1,000.00	33.00	-	33,000.00	33.00	-	33,000.00	33.00	-	33,000.00	33.40	33.40	-	33,400.00
3	Drafting, Reproduction of Reports:																
	i) Progress Report (Monthly)	Copy	-	40.00	165.00	-	6,400.00	165.00	-	6,400.00	165.00	-	6,400.00	70.00	235.00	-	94,000.00
	ii) Progress Report (Quarterly)	Copy	-	2,500.00	68.00	-	185,000.00	68.00	-	185,000.00	68.00	-	185,000.00	29.00	65.00	-	215,000.00
	iii) Resettlement Completion Report	Copy	-	8,000.00	18.00	-	144,000.00	18.00	-	144,000.00	18.00	-	144,000.00	18.00	18.00	-	144,000.00
	iv) Project Completion Report	Copy	-	15,000.00	10.00	-	150,000.00	10.00	-	150,000.00	10.00	-	150,000.00	10.00	10.00	-	150,000.00
4	Phaka Leader Office	Month	-	28,000.00	33.00	-	954,000.00	33.00	-	954,000.00	33.00	-	954,000.00	18.40	43.40	-	1,728,000.00
5	Report Staff																
	Team Leader's Phaka Office-[Liaison office] near 150 rpm area																
	i) Office Manager / Secretary	Month	-	37,000.00	36.00	-	1,332,000.00	36.00	-	1,332,000.00	36.00	-	1,332,000.00	13.40	43.40	-	1,530,000.00
	ii) Field Office																
	i) Office Manager / Secretary	Month	-	30,000.00	33.00	-	990,000.00	33.00	-	990,000.00	33.00	-	990,000.00	14.37	47.27	-	1,418,100.00
	ii) Computer Operator	Month	-	30,000.00	33.00	-	990,000.00	33.00	-	990,000.00	33.00	-	990,000.00	14.00	47.00	-	1,410,000.00
	iii) CAD Operator	Month	-	38,000.00	18.00	-	684,000.00	18.00	-	684,000.00	18.00	-	684,000.00	30.00	1,149,000.00	29.00	47.00
	iv) Photocopy Machine Operator	Month	-	12,500.00	33.00	-	412,500.00	33.00	-	412,500.00	33.00	-	412,500.00	14.00	47.00	-	587,500.00
	v) Office Boy, Messenger, etc (Total 02 nos. person)	Month	-	12,500.00	68.00	-	825,000.00	68.00	-	825,000.00	68.00	-	825,000.00	56.84	122.84	-	1,535,500.00
	vi) SAE / Site Supervisor	Month	-	40,000.00	132.00	-	5,200,000.00	132.00	-	5,200,000.00	132.00	-	5,200,000.00	124.10	274.10	-	10,944,000.00
	vii) Surveyor	Month	-	95,000.00	29.68	-	2,850,000.00	29.68	-	2,850,000.00	29.68	-	2,850,000.00	43.00	83.00	-	5,288,000.00
	viii) Laboratory Technician	Month	-	96,000.00	33.00	-	3,189,000.00	33.00	-	3,189,000.00	33.00	-	3,189,000.00	27.87	60.97	-	2,194,920.00
6	Provisional Sum																
	Arrangement of visiting / study tour		-	20,000.00	1.00	-	20,000.00	1.00	-	20,000.00	1.00	-	20,000.00	1.00	-	20,000.00	
	TOTAL COSTS																27,512,220.00

US\$: United States Dollar
BDT: Bangladeshi Taka

17/03/2017
(Ahmed Sharif Shaikh)
Project Manager (EE, RHD)
Pairs Bridge (Lebukhan Bridge)

Noor-E-Alam
Project Leader
IC-Teknicons-NARCO-EPC JV
Pairs Bridge (Lebukhan) Project, RHD

Noor-E-Alam
(Noor-E-Alam)
ID No: 231998015074
Project Director, EE, CCI, RHD
Pairs Bridge (Lebukhan) Project



Financial and Balance Sheet (B&P)																	
Budget and Construction Expenditure for Bridge (Lehkhall Bridge) over the River Indus (in thousand - rupees/-)																	
Contractor's Estimated Price																	
Contractor's Estimated Price									Balances Due to Contractor								
Sl. No.	Wise	Particular	Cost as per demand			Contract Value per Period 2012 - 2013 (Exe TMR Act 2010)			Utilized Cost (Exe. Revenue Dr. A/c)			Amount Outstanding (Exe. Revenue Dr. A/c)			Estimated Value under Budget Date Execution 2012 (Exe. TMR Act 2010)		
			Bal. Month Date	Actual Year (Exe. Dr. A/c)	Estimated Amount (Exe. Dr. A/c)	Period (Bal. Month)	Total Amount (Exe. Dr. A/c)		1000	1000	1000	1000	1000	1000	1000	1000	1000
			1000	1000	1000	1000	1000		1000	1000	1000	1000	1000	1000	1000	1000	1000
1	Inscriptions, etc etc																
2	Net Premiums																
3	Year License for Bridge																
4	Year License & Other Expenses Engines																
5	South Region / And Dharmshala																
6	Gangotri Canal Engines																
7	Al. Foundation & Economic Engines																
8	Al. Gangotri River Engines																
9	Al. Jang-Sar River Engines																
10	Al. Purna River (S) Engines																
11	Al. Muni & Ghati Engines																
12	Al. Dha & Muni Engines																
13	Al. Haldi & Ghati Engines																
14	Al. Haldi & Ghati Engines																
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58	Al. Haldi & Ghati																

INTERVIEW AND BALANCE OF PREDICTABLE AND UNPREDICTABLE

Design and Construction Supervision for Faria Bridge (Jatrabhita Bridge) over the River Faria On Marichha - Patuakhali Road, Bangladesh

Annals Entom.

U.S. United States Date
007: English/Thai


BC Dinesh
ITC Team Leader
ICT-Junior-NARCO-EPC JV
Pata Sodhi (Lokdhara) Project, IND

19(03/2019
(Ahmad Sharif Shahid)
Project Manager (EE, RHD)
Paitan Bridge (Lebukhali Bridge)
Construction Project



Autodesk 3D

U.S. Steel Shares 1998
SST Residential Fund

 BC Dinesh
Mo Team Leader
ICT-kunwaa-NARCO-EPO JV
Sain Baba (Abudullah) Project, RJD

17/07/2019
 (Ahmad Sharif Shajib)
 Project Manager (EE, RHD)
 Pura Bridge (Leluhukai) Bridge
 Construction Project

[Signature] 9.3.19
(Noor-E-Alam)
ID No. 231968015074
Project Director, SE, CCI, RHD
Fan Dala 14th Floor, Sector 14, Gurgaon Project



GC Dinesh
To whomsoever
It may concern
I am the owner
of the above mentioned
motor vehicle.
I have no objection
to its being sold
or otherwise disposed
of by the concerned
authorities.

(9/05) 2019
 (Ahmad Sharif Sharif(b)
 Project Manager (PE, RIBD)
 Pain Bridge (Labuan/Bridge)
 Construction Project

(Noor-E-Alam)
ID No. 23-99801-5074
Project Director, SE, CC, 840
New Delhi (Lalita Bagh) (Cantonment)



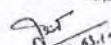
FORM 5B3 : BREAKDOWN OF COSTS BY ACTIVITY (Both Phase)

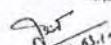
Design and Construction Supervision for Pairs Bridge (Lebukhali Bridge) over the River Pairs on Barishali - Patuakhali Road, Bangladesh

Group of Activities : Design Phase & Construction Supervision Phase		Costs (Original Contract)		Costs (Approved Addendum-1)		Costs (Approved Time extension and quantity adjustment)		Costs (Approved 2 Months Time extension and quantity adjustment)		Costs (Proposed Time extension and quantity adjustment / Addendum 02)	
Sl. No.	Cost Component	US\$	BDT	US\$	BDT	US\$	BDT	US\$	BDT	US\$	BDT
1	Remuneration	1,383,500.00	38,215,000.00	1,455,425.00	38,761,150.00	1,415,125.00	41,164,150.00	1,405,125.00	41,413,150.00	1,971,215.00	58,027,600.00
2	Reimbursable Expenses	206,900.00	43,132,000.00	223,750.00	45,707,000.00	216,938.93	47,049,320.00	215,538.93	47,683,120.00	304,203.25	39,886,840.00
	Subtotals	1,590,400.00	81,347,000.00	1,679,175.00	84,468,150.00	1,632,063.93	88,213,470.00	1,620,663.93	89,096,270.00	2,365,436.25	97,914,440.00

US\$: United States Dollar
BDT: Bangladesh Taka


BC Dinesh
As Team Leader
CT-Japanwa-NARCO EPC JV
Pairs Bridge (Lebukhali Project, BD)


Md. Sharif Shajib
(17/03/2019)
Project Manager (EE, RHD)
Pairs Bridge (Lebukhali Bridge)
Construction Project


Md. Noor-E-Alam
(19.03.19)
Project Director, SE, CCL RD
Pairs Bridge (Lebukhali Bridge)



FORM SB2 : SUMMARY OF COSTS

Design and Construction Supervision for Pairs Bridge (Lebukhali Bridge) over the River Pairs on Barisal - Patuakhali Road, Bangladesh

Item	Costs (Original Contract)			Costs (Approved Addendum-1)			Costs (Approved 07 months Time extension and quantity adjustment)			Costs (Proposed 02 months Time extension and quantity adjustment)		
	US Dollar	BDT	Equivalent BDT	US Dollar	BDT	Equivalent BDT	US Dollar	BDT	Equivalent BDT	US Dollar	BDT	Equivalent BDT
Design Phase (Design & Selection of Contractor Period)	315,100.00	14,678,500.00		403,875.00	17,799,650.00		356,763.99	20,449,970.00		356,763.99	20,303,770.00	
Construction Supervision Phase	1,275,300.00	68,688,500.00		1,275,300.00	66,668,500.00		1,275,300.00	67,763,500.00		1,263,900.00	68,792,500.00	
TOTAL costs (excluding VAT & IT)	1,590,400.00	81,347,000.00	207,763,800.00	1,679,175.00	84,468,150.00	217,962,562.50	1,032,063.93	88,213,470.00	217,962,552.44	1,020,663.93	89,096,270.00	217,939,052.44

Exchange Rate: 01 US\$=BDT 79.58 (As per Original Contract)


BC Dinesh
 IC Team Leader
 IGT-Kunhwa-NARCO-EPC JV
 Pairs Bridge (Lebukhali Bridge) Project


 17/03/2019
 (Ahmed Sharif Shajib)
 Project Manager (SE, BHD)
 Pairs Bridge (Lebukhali Bridge)
 Construction Project


 17/03/2019
 (Noor-E-Alam)
 ID No: Z31998015024
 Project Director, SE, CCL FSD
 Pairs Bridge (Lebukhali Bridge) Construction Project





(5)

- 53.4 Should any discrepancy be found to exist between actual payment and costs authorized to be incurred by the Consultant, the Client may add or subtract the difference from any subsequent payments.
- 54 Amendment to Contract**
- 54.1 The amendment to Contract shall generally include extension of time to the Intended Completion Date, increase or decrease in original Contract price and any other changes duly approved under the Conditions of the Contract.
- 54.2 The Client contracting, shall amend the Contract incorporating the required approved changes subsequently introduced to the original Terms and Conditions of the Contract in line with the Rules, including prior review where necessary.
- 55 Final Payment**
- 55.1 The final payment under this Clause shall be made only after the final report and a final statement, identified as such, shall have been submitted by the Consultant and approved as satisfactory by the Client. The Services shall be deemed completed and finally accepted by the Client and the final report and final statement shall be deemed approved by the Client as satisfactory sixty (60) days after receipt of the final report and final statement by the Client unless the Client, within such sixty (60) day period, gives written notice to the Consultant specifying in detail deficiencies in the Services, the final report or final statement. The Consultant shall thereupon promptly make any necessary corrections, and thereafter the foregoing process shall be repeated until such time as the final report and the final statement have been approved by the Client.
- 56 Suspension of Payments**
- 56.1 The Client may, by written notice of suspension to the Consultant, suspend all or part of the payments to the Consultant hereunder if the Consultant fails to perform any of its obligations under this Contract, including the carrying out of the Services, provided that such notice of suspension:
- (a) shall specify the nature of the failure, and
 - (b) shall request the Consultant to remedy such failure within a period not exceeding thirty (30) days after receipt by the Consultant of such notice of suspension.
- G. Time Control**
- 57 Completion of Services**
- 57.1 The Consultant shall carry out the Services in accordance with the Programme submitted by the Consultant, as updated with the approval of the Client and complete them by the Intended Completion Date as stated under GCC Clause 21.1.
- 58 Early Warning**
- 58.1 If at any time during performance of the Contract, the Consultant or its Sub-Consultants should encounter events, circumstances conditions that may adversely affect the quality of the work, increase the cost of Services or delay the execution of the Services, the Consultant shall promptly notify the Client in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Consultant's notice, the Client



JK

ORIGINAL : ARABIC

LOAN NUMBER: 84

LOAN AGREEMENT

LEBUKHALI BRIDGE PROJECT

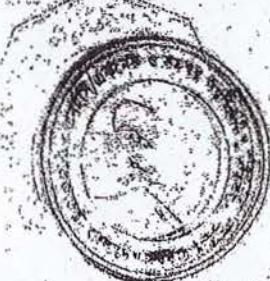
BETWEEN

THE GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH

AND

KUWAIT FUND FOR ARAB ECONOMIC DEVELOPMENT

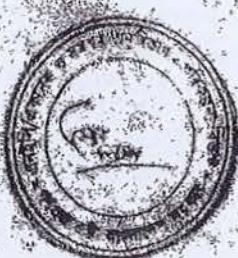
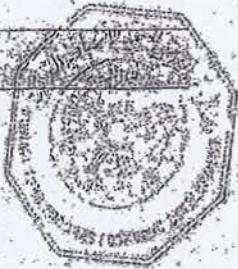
DATED 13 / 3 / 2012



LIST OF GOODS

No.	Item	Amount Allocated (expressed in Kuwaiti Dinars)	Percentage of Total Cost of Item
1.	Construction Works	10,800,000/-	82%
2.	Consultants' Services	1,050,000/-	100%
3.	Contingencies	2,150,000/-	
Total		14,000,000/-	

[Signature]





BANGLADESH BANK

Central Bank of Bangladesh

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Exchange rates of Taka for inter-bank and customer transactions are set by the dealer banks, based on demand-supply interaction. Bangladesh Bank (BB) is not in the market on a day-to-day basis, and undertakes USD purchase or sale transactions with dealer banks at prevailing Inter-bank exchange rates only as needed to maintain orderly market conditions.

Inter-bank exchange rates are also used by BB for purchase and sale transactions with the Government and different International Organizations. The USD/BDT buying and selling rates below are highest and lowest inter-bank exchange rates at Dhaka. The cross rates of BDT with other foreign currencies are based on NY and Dhaka closing exchange rates.

Date	USD		EUR		GBP		AUD		JPY		CAD		MYR		SGD		CNY		INR	
	Buy	Sell	Buy	Sell	Buy	Sell	Buy	Sell	Buy	Sell	Buy	Sell	Buy	Sell	Buy	Sell	Buy	Sell	Buy	Sell
31/03/19	84.2500	84.2500	94.4948	94.5285	109.7946	109.8283	59.7754	59.8175	0.7599	0.7601	63.0944	63.1133	9.0616	9.0645	62.1359	62.1496	12.5292	12.5337	1.2177	1.2178
28/03/19	84.2500	84.2500	94.5032	94.5201	109.7862	109.8199	59.7670	59.8091	0.7599	0.7601	63.1181	63.1370	9.0615	9.0645	62.1313	62.1542	12.5283	12.5333	1.2177	1.2178
27/03/19	84.2500	84.2500	94.7560	94.7644	111.1173	111.1595	59.6827	59.6996	0.7623	0.7624	62.8122	62.8309	9.0777	9.0865	62.1496	62.1725	12.5026	12.5041	1.2191	1.2194
25/03/19	84.2500	84.2500	94.8992	94.9329	111.2690	111.3027	60.1040	60.1124	0.7614	0.7616	62.9389	62.9624	9.1119	9.1148	62.2921	62.3059	12.5297	12.5320	1.2209	1.2213
24/03/19	84.2500	84.2500	95.3036	95.3457	111.2858	111.3280	59.6659	59.6911	0.7663	0.7665	62.7420	62.7607	9.0747	9.0862	62.2782	62.3013	12.5277	12.5335	1.2178	1.2182
21/03/19	84.2500	84.2500	95.3120	95.3289	111.2858	111.3280	59.6659	59.6911	0.7663	0.7665	62.7233	62.7514	9.0747	9.0882	62.2782	62.3013	12.5277	12.5335	1.2178	1.2182
20/03/19	84.2500	84.2500	96.1377	96.1798	111.1763	111.1932	59.9436	59.9523	0.7610	0.7612	63.3173	63.3268	9.2168	9.2198	62.5325	62.5557	12.5933	12.6010	1.2245	1.2249
19/03/19	84.2500	84.2500	95.6153	95.6575	111.7745	111.8082	59.7080	59.7248	0.7563	0.7565	63.2365	63.2555	9.1503	9.1533	62.3428	62.3658	12.5389	12.5445	1.2207	1.2208
18/03/19	84.2500	84.2500	95.5058	95.5142	111.6734	111.7155	59.8344	59.8765	0.7561	0.7561	63.1796	63.1843	9.1272	9.1301	62.3428	62.3658	12.5352	12.5365	1.2276	1.2278
16/03/19	84.2500	84.2500	95.4131	95.4216	111.9598	111.9933	59.7080	59.7501	0.7557	0.7559	63.1654	63.1843	9.1249	9.1278	62.2828	62.3013	12.5465	12.5527	1.2212	1.2221
13/03/19	84.1600	84.2000	95.3112	95.3902	112.2442	112.3312	59.6947	59.7399	0.7570	0.7575	63.2307	63.2892	9.0570	9.0642	62.2301	62.2735	12.5578	12.5660	1.2100	1.2114
12/03/19	84.2000	84.2000	95.0281	95.0618	110.0747	110.1083	59.6136	59.6304	0.7560	0.7562	63.0428	63.0617	9.9904	9.9933	62.0852	62.1081	12.5520	12.5576	1.2091	1.2095
11/03/19	84.2000	84.2000	94.6997	94.7418	110.7314	110.7567	59.5210	59.5378	0.7571	0.7573	62.8687	62.8874	9.9720	9.9748	62.0029	62.0121	12.5063	12.5076	1.2053	1.2056
10/03/19	84.2000	84.2000	94.5240	94.6651	109.5863	109.6284	59.3189	59.3610	0.7573	0.7575	62.7562	62.7749	8.9294	8.9323	61.9436	61.9664	12.5080	12.5136	1.2024	1.2029
07/03/19	84.1500	84.1500	94.5678	94.6098	109.5212	109.5633	59.2837	59.3258	0.7569	0.7571	62.7189	62.7376	8.9241	8.9270	61.9069	61.9296	12.5006	12.5061	1.2017	1.2022
06/03/19	84.1500	84.1500	95.1316	95.1652	110.8171	110.8840	59.1743	59.1827	0.7528	0.7530	62.5930	62.6146	9.0468	9.0497	61.9844	61.9963	12.5268	12.5302	1.2006	1.2009
05/03/19	84.1500	84.1500	95.1400	95.1737	110.8676	110.9181	59.5950	59.6287	0.7520	0.7521	63.0384	63.0573	9.0374	9.0408	62.0621	62.0850	12.5483	12.5520	1.1937	1.1939
04/03/19	84.1500	84.1500	95.4009	95.4429	110.9602	111.0053	59.6792	59.6875	0.7530	0.7531	63.2374	63.2617	9.0092	9.0126	62.1171	62.1308	12.5443	12.5500	1.1865	1.1869
03/03/19	84.1500	84.1500	95.7122	95.7543	111.0948	111.1285	59.5782	59.6203	0.7518	0.7520	63.2897	63.2945	9.0754	9.0784	62.0850	62.1079	12.5294	12.5384	1.1850	1.1854

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► Uttara Bank

► HSBC

Appendix- A



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Intercontinental Consultants and Technocrats Pvt. Ltd.

ICT: 700: SKP: 1574



01 March 2019

✓ Mr Noor-E-Alam

Project Director (SE, RHD)
Paira Bridge (Lebukhali Bridge) Construction Project,
Government of the People's Republic of Bangladesh,
Bangladesh Road Research Laboratory, Paikpara
Mirpur, Dhaka - 1216, Bangladesh

Sub: Consultancy Services for Design and Construction Supervision of Paira Bridge (Lebukhali Bridge) over the River Paira on Barisal – Patuakhali Road, Bangladesh – Submission of CV of Mr Venkat D Rao , Senior Bridge Design Specialist for approval.

Dear Sir,

We are submitting the CV of Mr. Venkat D Rao, as proposed Senior Bridge Design Specialist for your favorable consideration on this Project. Mr. Venkat D Rao, SBDE is already providing his services & input, since October 2016 from Bridge Division of our Head Office, on design of foundations, substructure & super structure of this project.

He is a qualified Engineer with more than 27 years of vast experience. He has worked on major bridge projects including Cable stayed, Extradosed bridges and balanced cantilever bridge projects. He has vast experience in precast segmental bridge design including construction stage design and trouble shooting of construction problems during execution.

Mr. Venkat D Rao is a key professional, having wide expertise in using various software in design and familiar with international standards like AASHTO-LRFD, BS and EN Codes. He has provided input & successfully completed projects in several countries like China, Tanzania, and UAE & India at the level of Chief Structural Engineer (Design) / Senior Bridge Design Engineer.

He is a suitable candidate for the above said position as per Terms of Reference. Accordingly, we seek your kind approval for the CV of Mr. Venkat D Rao, proposed as Senior Bridge Design Specialist.

Thanking you,

Yours truly,
For ICT-KUNHWA-NARCO-EPC JV Paira Bridge Project

S K Puri
Project Coordinator & President

Encl.: CV of Mr. Venkat D Rao, proposed Senior Bridge Design Specialist.

1. Project Manager (EE, RHD), Paira Bridge (Lebukhali Bridge) Construction Project, BRRL, Paikpara, Mirpur, Dhaka-1216, BANGLADESH.

Innovative, Creative & Technologically Sustainable Infrastructure Solutions

CIN : U74899DL1987PTC026913

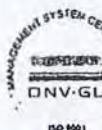
Corporate Office :
A-8, Green Park,
New Delhi-110 016, INDIA

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+91-11-40863000

Fax :
+91-11-26855252

Email :
business@ictonline.com

Website :
<http://www.ictonline.com>



*Consultancy Services for Design and Construction-Supervision
of the Paira Bridge (Lebukhali Bridge) over the river Paira
on Barisal-Patuakhali Road, Bangladesh*

1. PROPOSED POSITION	:	Sr. Bridge Design Specialist		
2. NAME OF FIRM	:	Intercontinental Consultants and Technocrats Pvt. Ltd. (ICT), New Delhi		
3. NAME OF STAFF	:	Venkat D. Rao		
4. DATE OF BIRTH	:	17 th February 1964		
5. EDUCATION	:	B. Tech. (Civil Engineering) from NIT, Warangal, Kakatiya University, Warangal 1986 Executive MBA (Executive General Management Programme) from Indian Institute of Management, Bangalore, Karnataka, 2009		
Computer Proficiency	:	MS Office (Word & Excel) / MIDAS-CIVIL, STAAD Pro, ADAPT ABI, CSI-Bridge, CSI-SAP & ANSYS		
6. MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS	:	Member of International Association of Bridge and Structural Engineers (IABSE) Fellow member of Institution of Bridge and Structural Engineers, India (IBSE) Chartered Engineer (India), Institution of Engineers, India Member of Indian Roads Congress (IRC) Alumni of Indian Institute of Management (IIM), Bangalore		
7. OTHER TRAINING	:	<ul style="list-style-type: none">• Certified in QMS Internal Audit Training programme (TQMI).• Familiar with EN, BS, ACI, AASHTO, AISC, IS, IRC, IRS and UIC standards.		
8. COUNTRIES OF WORK EXPERIENCE	:	India, Bangladesh, China, UAE (Abu Dhabi, Dubai), Tanzania Saudi Arabia		
9. LANGUAGES	:	Speaking	Reading	Writing
		English Good	Good	Good
		Hindi Good	Good	Good
10. EMPLOYMENT RECORD :				
FROM OCT. 2016	:	Till Date		
EMPLOYER	:	Intercontinental Consultants and Technocrats Pvt. Ltd. (ICT), New Delhi.		
POSITIONS HELD	:	Senior Bridge Design Specialist / Senior Bridge Engineer		
FROM OCT. 2013	:	To Aug. 2016		
EMPLOYER	:	Construma Consultancy Pvt. Limited		
POSITIONS HELD	:	Senior Bridge / Chief Structural Engineer (Design)		
FROM AUG. 2011	:	To Sep. 2013		
EMPLOYER	:	Parsons Brinckerhoff India Pvt. Ltd.		
POSITIONS HELD	:	Principal Structural Engineer (Bridges)		
FROM JUN. 2009	:	To Aug. 2011		
EMPLOYER	:	L&T- RAMBOLL		
POSITIONS HELD	:	Senior Bridge Design Engineer		
FROM JUN. 2007	:	To May 2009		
EMPLOYER	:	Renardet S.A.		
POSITIONS HELD	:	Sr. Bridge Design Engineer		
FROM JUL. 2006	:	To Jun. 2007		
EMPLOYER	:	Hyder Consulting Middle East Ltd., Abu Dhabi (UAE)		
POSITIONS HELD	:	Bridge Design Engineer		
FROM AUG. 2003	:	To Jun. 2006		
EMPLOYER	:	CPCS Upham (Transcom), New Delhi (India)		
POSITIONS HELD	:	Senior Bridge Design Engineer		
FROM JUL. 2000	:	To Mar. 2003		
EMPLOYER	:	Artefact Projects, Nagpur (India)		
POSITIONS HELD	:	Senior Bridge Design Engineer		

Venkat D. Rao
1 of 8

D-Venkat Rao

S

J. S.



FROM MAR. 1993 : To May 2000
 EMPLOYER : Panchayat Raj Department, Andhra Pradesh
 POSITIONS HELD : Planning / Design Engineer (Bridges)

FROM 1990 : To 1993
 EMPLOYER : APREIS/CERP Project, Hyderabad
 POSITIONS HELD : Planning / Design Engineer

FROM 1987 : To 1989
 EMPLOYER : Jyothi Engineering Consultants
 POSITIONS HELD : Design-cum-Site Engineer

11. DETAILED TASKS ASSIGNED

- Review of secondary data and documents;
- Carry out reconnaissance and field investigations;
- Prepare draft design standards and methodology and finalize design standards for bridges and structures;
- Study and review of various Survey and Investigation data for proposed structures;
- Carryout inventory and condition survey of existing structures including bridges, culverts, etc.;
- Assist Team Leader in preparation of Preliminary Engineering Design;
- Preparation of Estimates for bridges and structures;
- Assist Team Leader and Finalization of Detailed Engineering Design of Bridge and the Specifications;
- Prepare Quality Assurance Plan (QAP) for all field, design and investigation activities regarding bridge and structures;
- Prepare final design and drawings of structures and;
- Assist Team Leader in preparation of Reports related with structures for submission to RHD.

12. WORK UNDERTAKEN THAT BEST ILLUSTRATES CAPABILITY TO HANDLE THE TASKS ASSIGNED

• Year: Oct. 2016 - Till date
Activities performed: Finalizing design standards; Analysis and design of bridges (concrete as well as steel bridges) including their foundation, substructure and superstructure; Finalizing detailed technical specifications; Preparation and finalization of detailed working drawings for all components of bridges using computer aided bridge design software viz. STADD / Auto CADD; Preparation of final design report; Finalizing cost estimates and tender documents.

• Year: Feb 2018 to till date
Name of assignment or project: Consultancy Services for Preparation of Feasibility and Detailed Project Report for upgradation to 4 lane of Shimla to Mataur Section (Km 0.000 to Km 223.700) of NH-88 in the State of Himachal Pradesh through BOT/Hybrid Annuity/EPC mode

Location: Himachal Pradesh

Client: National Highways Authority of India

Main project features: involved in design of major bridges (i) New 4 lane Major Bridge at km. 124+040, length 74.08m (1x74m), Bow string Steel Arch and open foundation; (ii) New 4 lane Major Bridge at km. 146+400, length 74.08m (1x74m), Bow string Steel Arch and open foundation; (iii) New 2 lane Major Bridge on Beas River at km. 160+300, length 327.40m (7x46.77m), PSC Box Girder and open foundation; (iv) New 2 lane Major Bridge at km. 202+565, length 112m (8.08m+90m+14.1m+40m), RCC integral arch and open foundation; (v) New 4 lane Rail over Bridge at km. 201+135, length 131.85m (37.2m+57.4m+37.2m), Steel bow string arch / steel composite girder

Positions held: Senior Bridge Engineer

• Year: 2018

Name of assignment or project: Redesign of New Wami Bridge and its associated approached roads along with Chalinze - Segera road for Contractor; *Location:* Tanzania

Client: ITSPL

Main project features: New Wami River Bridge on Down stream side of existing Wami Bridge at km.2.374, length 513.500m long five span continuous (75m+3x120m+75m) PSC Segmental Balanced Cantilever Bridge resting on isolated foundation. The height of Pier and its foundation is 58.0m and the shape of Pier is RC hollow circular type;

Positions held: Senior Bridge Engineer

• Year: Nov. 2016 to Sep. 2017

Name of assignment or project: Consultancy Services for Preparation of Detailed Project Report for the Construction of New 6-lane Bridge with Approaches Parallel to existing two-lane Bridge over River Ganga at Phuphamau, Allahabad in Uttar Pradesh



J.V.

*Consultancy Services for Design and Construction-Supervision
of the Paira Bridge (Lebukhali Bridge) over the river Paira
on Barisal-Patuakhali Road, Bangladesh*

Location: Uttar Pradesh

Client: Ministry of Road Transport & Highways, Regional Office, Lucknow

Main project features: New 6-Lane bridge across Perennial Ganga River at Phaphamau has a total length of 3839 m consisting of 860m (3x200m+2x130m) length of bridge with precast segmental EXTRADOSED type superstructure and 2979 m [(1x 2x32.32m+10x3x50m) + (9x3x50m+2x32.32m)] length with 2/3 span continuous precast segmental PSC box girder type superstructure. Large diameter [2.0/2.5m] pile foundations have been provided for proposed bridge.

Positions held: Senior Bridge Engineer

- *Year:* Oct. 2016 - Till date

Name of assignment or project: Consultancy Services for Design and Construction Supervision of Paira Bridge (Lebukhali Bridge) over the River Paira on Barisal – Patuakhali Road (KFAED funded Loan No. 841), Bangladesh.

Location: Bangladesh

Client: Roads & Highways Department, Bangladesh.

Main project features: Details of Bridge (630 m), Span arrangement: 1 x 115+2 x 200+1 x 115;

Structure type: EXTRADOSED; *Foundation:* Pile.

Positions held: Sr. Bridge Design Specialist

- *Year:* Oct. 2013 – Aug. 2016

Positions held: Senior Bridge / Chief Structural Engineer (Design)

Activities performed: Planning and monitoring of geotechnical, subsoil and hydraulic investigations and interpretation of results and using the same in determining the waterway, span arrangement and fixing the type and level of foundations for the bridge; Finalization of options for rehabilitation / widening of bridges based on condition survey of old bridges at various places whenever required; Finalizing design standards; Analysis and design of bridges (including Steel / Steel Truss & Arch / Segmental Spine & Balanced Cantilever, Extradosed Cable Stayed) FOBs, Elevated Corridor and CD structures including their foundation, substructure and superstructure; Finalizing detailed technical specifications; Preparation and finalization of detailed working drawings for all components of bridges /other structures using computer aided bridge design software viz. MIDAS/STADD etc.; Preparation of various reports. The following projects were undertaken by him:

- *Year:* Oct. 2015 – Feb. 2016,

Name of assignment or project: Consultancy Services for Design and Construction Supervision of Paira Bridge (Lebukhali Bridge) over the River Paira on Barisal – Patuakhali Road (KFAED funded Loan No. 841), Bangladesh.

Location: Bangladesh

Client: Intercontinental Consultants and Technocrats Pvt. Ltd. (ICT), New Delhi/Roads & Highways Department, Bangladesh.

Main project features: The project involved detail design of Lebukhali EXTRADOSED River Bridge in Bangladesh. Details of Bridge (630 m), Span arrangement: 1 x 115 + 2 x 200 + 1 x 115; *Structure type:* EXTRADOSED; *Foundation:* Pile.

- *Year:* July 2015 to May 2016

Name of assignment or project & Main project features: Detail design of MCGM bridges in Mumbai (120m steel arch with suspenders).

Location: Mumbai

- *Year:* Nov. 2014 - Jan. 2016

Name of assignment or project & Main project features: Proof checking of Kunming metro rail depot (China) including administrative building, loco workshops, station yard buildings, water tanks and utility buildings

Location: China

- *Year:* Oct. 2014 – Dec. 2015

Name of assignment or project & Main project features: Detailed Engineering Design of 110 m long Steel Arch Bridge at Yari in Mumbai, Maharashtra, having span arrangement: 1 x 110 m; *Foundation:* Pile; *Structure type:* Steel Arch.

Location: Mumbai

Client: BMC, Mumbai

Venkat D. Rao
3 of 8



- Year: Oct. 2014 – Oct. 2015
Name of assignment or project & Main project features: Construction supervision of (i) Kali Bridge of 544 m of Balanced Cantilever over Kali River, having span arrangement: 1 x 89 + 3 x 122 + 1 x 89
Foundation: Pile; **Structure type:** PSC Balanced Cantilever and (ii) Sherawati River Bridge (1170 m), having span 39 x 30 m with PSC-T Beam, Pile foundation in the state of Karnataka.
Location: Karnataka
Client: National Highways Authority of India
- Year: Oct. 2013 – July 2015
 - (a) **Name of assignment or project & Main project features:** Consultancy Services for foundation and substructure design of 8 lane of 575 m of Signature Bridge (EXTRADOSED/ Cable Stayed) at Wazirabad, Delhi, having span arrangement : (72+251+144+108m) ; **Foundation:** Well type; **Location:** Delhi; **Client:** ITDC
 - (b) **Name of assignment or project & Main project features:** Detailed design of EXTRADOSED bridge at Haridwar of 100 m length; **Location:** Haridwar
 - (c) **Name of assignment or project & Main project features:** Detailed design of PSC I girder Kosi bridge project (1840m) in Bihar; **Location:** India
 - (d) **Name of assignment or project & Main project features:** Preliminary Design of 640 m EXTRADOSED bridge on Sultanpur -chaurasia NH Project; **Location:** Uttar Pradesh
- Year: Oct. 2013 – Aug. 2016
 - (a) **Name of assignment or project:** Consultancy Services for detailed design of four laning of 6 km Elevated Corridor under Barapulla Elevated Corridor Project (Phase-II) in New Delhi.
Location: Delhi
Client: PWD, Govt. of Delhi,
Main project features: The project also included Steel Bridge (720 m), having span arrangement: 30 x 20 +1 x 40 + 1 x 80; **Foundation:** Pile; **Structure type:** PSC Box & Steel Truss and nos. of minor bridges.
 - (b) **Name of assignment or project & Main project features:** Proof checking of 6 lane of 6 km Elevated Corridor including Steel Truss / PSC Segmental Spine Box Girder Structures; having span arrangement: 4 Nos. Foot Over Bridges (FOBs) viz. (I) (120 m), having span 4 x 30 m; (ii) (117 m), having span 1 x 32 + 1 x 53 + 1 x 32 m; and (iii) (98 m), having span 1x29 +1x 40 +1x29; For all Foundations: Pile and Structure types: PSC Segmental Spine Box Girder, (iv) (360 m), having span 4 x 90 m. and 2 nos. of Highway Steel Truss Bridges with Pile foundation for each in New Delhi viz. (i) (300 m), having span 5 x 60 and (ii) (98 m) having span 1 x 29 + 1 x 40 + 1 x 29.
Location: Delhi
Client: PWD, Govt. of Delhi.
- Year: Aug. 2011 – Sept. 2013

Positions held: Principal Structural Engineer (Bridges),
Activities performed: Responsible for organizing surveys and investigations; Condition and utilities survey; Planning and monitoring of geotechnical and subsoil investigations for structures foundation; Finalizing design standards; Finalizing detailed technical specifications; Preparation and finalization of detailed working drawings for all components of structures using computer aided bridge design software viz. MIDAS/STADD / Auto CADD; and Preparation of tender documents, technical specifications and preparation of various reports. Undertaken the following projects:

 - Year: Dec. 2011 – Dec. 2012
Name of assignment or project & Main project features: Consultancy Services for upgradation of 8 lane of 10 km of Elevated Corridor having different types of span arrangements with Pile foundation / PSC Box Girder / along with Grade Sector Road in Gurgaon, Haryana.
Location: Haryana
Client: PWD, Govt. of Haryana
 - Year: Nov. 2011 – Jun. 2013
Name of assignment or project & Main project features: Detailed Engineering Design of 8 km of Mumbai Metro Rail Viaduct with different types of spans and Pile foundation, PSC Box Girder in superstructure and Design of Depot Buildings.
Location: Mumbai, India
Client: MMOPCL

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*Consultancy Services for Design and Construction-Supervision
of the Paita Bridge (Lebukhali Bridge) over the river Paita
on Barisal-Patuakhali Road, Bangladesh*

- **Year:** Aug. 2011 - Sep. 2013
Name of assignment or project & Main project features: Detailed Engineering Design of 29 km of Hyderabad Metro Rail Viaduct with Pile and Open foundations, PSC Box Girder in the State of Andhra Pradesh. Detail design of 175 m Balanced Cantilever metro rail viaducts at Balnagar and Panjagutta sections
Location: Andhra Pradesh
Client: HMRL
- **Name of assignment or project & Main project features:** Detailed Engineering Design of 6 lane of 4 km from WBH to Mumbai Airport Elevated Corridor having different types of spans and PSC Spine Segmental Box Girder with Pile foundation in Maharashtra.
Year: Jun. 2009 - Aug. 2011
Location: Maharashtra
Client: MSRDC
Positions held: Senior Bridge Design Engineer
Activities performed: Responsible for organizing surveys and investigations; Condition survey; Geotechnical and subsoil Investigations for foundation; Finalizing design standards; Analysis and design of Airport Elevated Corridor including its foundation, substructure and superstructure; Finalizing detailed technical specifications; Preparation and finalization of detailed working drawings for all components of Elevated Corridor using computer aided bridge design software viz. MIDAS/STADD / Auto CADD; and Preparation of pre-bid documents and various reports.
- **Name of assignment or project & Main project features:** Independent Engineer of six lane of 9.5 km New Elevated Flyover having different types of spans and PSC Spine Segmental Box Girder with Pile foundation on NH-7 from Silk Board Junction to Electronic City Junction (Km. 8.765 to Km. 18.750) Section of NH-7 of Bangalore - Hosur Section on Build, Operate and Transfer (BOT) Basis in Bangalore, Karnataka.
Year: Jun. 2007 - May 2009
Location: Karnataka
Client: National Highways Authority of India.
Positions held: Senior Bridge Design Engineer
Activities performed: His responsibilities included review the concessionaire's works program and method statement; Checking the design and drawings of structures and made changes in the design as where required using computer aided design software viz. STADD / Auto CADD; Monitoring of works progress; and Preparation of various reports.
- **Year:** Jul. 2006 - Jun. 2007
Positions held: Bridge Design Engineer
Activities performed: Responsible for organizing surveys and investigations; Condition survey of the existing bridges and cross-drainage structures; Planning and monitoring of geotechnical, subsoil and hydraulics investigations and interpretation of results for fixing the type and level of foundations for the bridges; Geotechnical study and analysis; Finalization of options for rehabilitation/ widening of bridges based on condition survey of old bridges at various places whenever required; Finalizing design standards; Analysis and design of bridges and CD structures including their foundation, substructure and superstructure; Finalizing detailed technical specifications; Preparation and finalization of detailed working drawings for all components of bridges / other structures using computer aided bridge design software viz. SUPERSTRESS/STADD / Auto CADD; Preparation of various reports.
- **Name of assignment or project & Main project features:** Detailed Engineering Design of 6 laning of 4 nos. Integral Bridges of 100 m each, Span arrangement: 2 x 20 + 2 x 30 and Multi Bent Columns with RCC/PSC on Pile foundation under Shams Abu Dhabi Project of Al Reem Project in Abu Dhabi.
Location: Abu Dhabi
Client: ADM.
- **Name of assignment or project & Main project features:** Design of 4 laning of 20 km of City of Arabia Project (Phase II) in Dubai including Bridge (160 m); Span arrangement: 4 x 40 m; Structure Type: PSC Box Girder; Foundation: Pile.
Location: Dubai
Client: Private

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- Year: Aug. 2003 – Jun. 2006,

Positions held: Senior Bridge Design Engineer

Activities performed: Responsible for organizing surveys and investigations; Condition survey of existing bridges and cross-drainage structures; Planning and monitoring of subsoil and hydraulic investigations and interpretation of results and using the same in determining the waterway, span arrangement and fixing the type and level of foundations for the bridge; Finalization of options for rehabilitation / widening of bridges based on condition survey of old bridges at various places whenever required; Finalizing design standards; Analysis and design of bridges and CD structures including their foundation, substructure and superstructure; Finalizing detailed technical specifications; Preparation and finalization of detailed working drawings for all components of bridges / ROB using computer aided bridge design software viz. STADD / Auto CADD; Preparation of final design report; Finalizing cost estimates and tender documents.

- Year: Jun. 2005 – May 2006

Name of assignment or project & Main project features: Design of two / four lane of 90 km of Muzaffarpur - Sonbarsa Road Section of NH-77 in Bihar including Bridge over Baghmati River (330 m);

Span arrangement: 1 x 15 + 5 x 60 + 1 x 15; **foundation:** Well.

Location: Bihar

Client: National Highways Authority of India.

- Year: 2005

Name of assignment or project: Preliminary design for the Expansion of Rail workshops in Dammam (Saudi Arabia)

- Year: Sep. 2004 - Jun. 2006

Name of assignment or project & Main project features: Design of four lane of 40 km from Darbhanga - Janjharpur Section of NH-57 including Bridge at Kamlaaban (240 m); **Span arrangement:** 6 x 40 m;

Foundation: Well; **Structure type:** PSC Box.

Client: National Highways Authority of India.

- Year: Sep. 2003 – Oct. 2005

Name of assignment or project & Main project features: Construction Supervision of four lane of 35 km of Chittorgarh Bypass Project Section of NH-76 including ROB (162 m); **Span arrangement:** 4 x 21.7+2 x 20.5+1x34.3m; **Foundation:** Open; **Structure type:** PSC T Beam in Rajasthan.

Location: Rajasthan

Client: National Highways Authority of India.

- Year: Aug. 2003 – Jan. 2005

Name of assignment or project & Main project features: Design of four lane of 60 km from Lucknow - Muzaffarpur Road Project Section of NH-28 in Uttar Pradesh including Bridge at Gandak River (810 m);

Span arrangement: (2x20+2 x 55+11x60); **Foundation:** Well; **Structure type:** PSC Box in Uttar Pradesh

Location: Uttar Pradesh

Client: National Highways Authority of India.

- Year: Jul. 2000 – Mar. 2003

Positions held: Senior Bridge Design Engineer

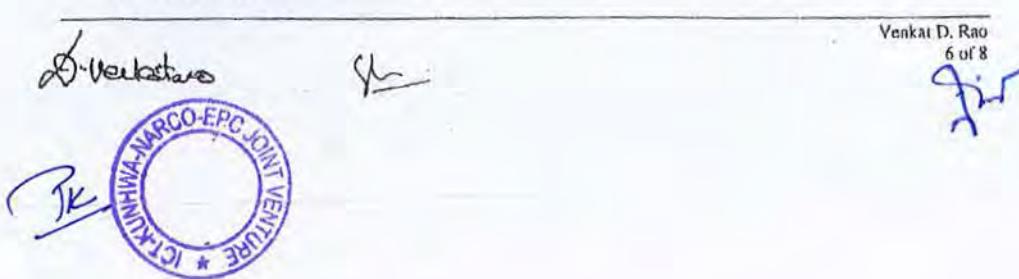
Activities performed: Responsible for organizing surveys and investigations; Condition survey of existing bridges and cross-drainage structures; Planning and monitoring of subsoil and hydraulic investigations and interpretation of results and using the same in determining the waterway, span arrangement and fixing the type and level of foundations for the bridge; Finalization of options for rehabilitation / widening of bridges based on condition survey of old bridges at various places whenever required; Finalizing design standards; Analysis and design of bridges and CD structures including their foundation, substructure and superstructure; Finalizing detailed technical specifications; Preparation and finalization of detailed working drawings for all components of bridges using computer aided bridge design software viz. STADD / Auto CADD; Preparation of final design reports; Finalizing cost estimates and tender documents; Also, proof checking of structures and approval.

- Year: Feb. 2001 - Dec. 2002,

Name of assignment or project & Main project features: Detail Design of 2 lane of 90 km from Satna - Umariya Section of SH-11 & 26 Highway Project in Madhya Pradesh. The project also included 60 nos of Minor Bridges and various numbers of culverts.

Location: Madhya Pradesh

Client: MPRDC.



*Consultancy Services for Design and Construction-Supervision
of the Pâira Bridge (Lebukhali Bridge) over the river Pâira
on Barisal-Patuakhali Road, Bangladesh*

Year: Nov. 2000 – Aug. 2001

Name of assignment or project: Detail Design of 2 lane of 70 km from Seoni-Balaghat Section of SH-9 including 4 nos. of major bridges in Madhya Pradesh.

Location: Madhya Pradesh

Client: MPRDC.

Main project features: Details of structures:

- o Design of Bridge at Chota Mahanadi (534 m); Span arrangement: 12x44.5 m; Foundation: Well; Structure type: PSC Box Beam
- o Design of Bridge at Bagh (292.5 m); Span arrangement: 13x22.5 m; Foundation: Open; Structure type: RCC T Beam
- o Design of Bridge at Damah (220 m); Span arrangement: 10x22 m; Foundation: Open; Structure type: RCC T Beam
- o Design of Bridge at Bichiya (88 m); Span arrangement: 4x22 m; Foundation: Open; Structure type: RCC T Beam

Year: Feb. 2001 – Feb. 2003

Name of assignment or project: Proof Checking of 4-lane of 100 km from Rajamundry-Tuni Section of NH-5 in Andhra Pradesh.

Location: Andhra Pradesh

Client: National Highways Authority of India.

Main project features: Details of structures:

- o Design check and approval of Yerravaram Post-tensioned Box Bridge (5 x 37.5 m) over Well foundation
- o Design check and approval of Pampa (192 m) and Tandava (90 m) Post-tensioned T-Beam Bridges.

• Year: 1993 – 2000,

Positions held: Planning / Design Engineer (Bridges)

Activities performed: Responsible for planning, survey and investigations; Condition survey of existing bridges and cross-drainage structures; Planning and monitoring of subsoil and hydraulic/geotech investigations and interpretation of results; Hydraulic/geotech study and analysis; Fixing the type and level of foundations for bridges/structures; Preparation of design bridges (Composite Steel), cost /quantity estimates, documents and technical specifications. Construction supervision of bridges; Approval and issuing of working drawings; Monitor progress of the project using latest Project Management Technique; Checking of measurements; Approval of bills; Liaison with client; Verify and certify 'as-built' drawings; and preparation of various reports.

• Year: 1996 – 2000

Name of assignment or project: Planning, design and Supervision of 120 km of State Highway in Andhra Pradesh.

Location: Andhra Pradesh

Client: Andhra Pradesh State Govt.

Main project features: The project also included 40 Nos of major and minor bridges including 80 m new RCC T Beam Bridge and nos of culverts.

• Year: 1993 - 1996

Name of assignment or project: Design and Construction Supervision of 120 km of Cyclone Emergency Reconstruction Programme (CERP), ADB funded in Andhra Pradesh,

Location: Andhra Pradesh

Client: AP PR Dept.

Main project features: The project involved 55 new PSC / RCC T Beam Bridges (Minor/Major) with Skew and Right Slab, 100 m Composite Steel Bridge, having span 4 x 25, Pile foundation and New 100 m Composite Steel Major Pedestrian Bridge, having Span arrangement 6 x 16.66 m, pile foundation.

• Name of assignment or project, Main project features & Activities performed: Responsible for planning, design and cost estimation of residential college campus including preparation of tender documents, tender evaluation and agreement preparation.

Year: Mar. 1990 – Mar. 1993

Location: Hyderabad

Positions held: Planning / Design Engineer

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• Year: 1987 -1989

Positions held: Design-cum-Site Engineer

Activities performed: His assignments included survey and investigations; Condition survey, inventory survey; Assist in monitoring of subsoil and hydraulic study / investigation; Assist in preparation of design / drawings, cost/quantity estimates, documents etc. keeping of site records and assist in preparation of various reports.

- Name of assignment or project & Main project features: Design of RCC folded plate roof (24 m x 144 m) for a College Auditorium in Eluru in Andhra Pradesh.

Location: Andhra Pradesh

- Name of assignment or project & Main project features: Design of 30 m roof trusses, steel columns and foundations for an industrial shed at Eluru in Andhra Pradesh.

Location: Andhra Pradesh

- Name of assignment or project & Main project features: Design of concrete silo of 20 m with 6 m dia for a Brawn Oil Factory at Gudiwada in Andhra Pradesh.

Location: Andhra Pradesh

- Name of assignment or project & Main project features: Design of Underground Water Tank (30 m x 30 m x 8 m) with 1 m depth for Krishna jute industry at Eluru in Andhra Pradesh.

Location: Andhra Pradesh

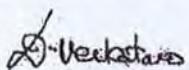
- Name of assignment or project & Main project features: Design of 30 m height RCC chimney for a brawn oil factory at Gudiwada in Andhra Pradesh.

Location: Andhra Pradesh

- Name of assignment or project & Main project features: Design of multi-story residential apartment including seismic analysis (30000 sqft)

13. CERTIFICATION

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.


Venkat D. Rao


Suresh Kumar Puri

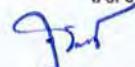
Date: 28 / 02 / 2019
Day/Month/Year

[Signature of staff member or authorized representative of the staff]

Full name of authorized representative: Mr. Suresh Kumar Puri

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Position	Evaluation Criteria (Ref. ITC 41.2 of PDS and Detailed Evaluation Criteria - Appendix X)	Points	ICT-Kunhwa-NARCO-EPC		ICT-Kunhwa-NARCO-EPC	
			Grading	Score	Grading	Score
3(a) Sr. Bridge Design Specialist			Taranisen Naik		Venkat D. Rao	
	I. General Qualifications & Experience					
	a. Academic Qualifications	0.50	90%	0.45	75%	0.38
	Bachelor Degree : 75%					
	Masters in structure/bridge : 90%					
	b. PhD in structure/ bridge : 100%	0.50	75%	0.38	100%	0.50
	20 yrs to <23 yrs : 75%					
	23 yrs to <25 yrs : 85%					
	=>25 yrs : 100%					
	II. Adequacy for the Assignment					
	a. Experience as Sr. Bridge Design Engineer /Specialist of extradosed bridge of length not less than 500m.	2.50	80%	2.00	100%	2.50
	One Project : 70%					
	Two Projects : 80%					
	Three or more : 100%					
	b. Experience in bridge design in bridge project	0.50	100%	0.30	100%	0.50
	One Project : 70%					
	Two Projects : 85%					
	Three or more : 100%					
	III. Time with the Firm	0.50	100%	0.50	100%	0.50
	Working under the current Employer on a regular/permanent full time basis continuously					
	<12 months : 0%					
	=>last 12months : 100%					
	IV. Experience in SAARC/ASEAN Region	0.50	100%	0.50	100%	0.50
	Experience in SAARC or ASEAN Countries					
	1 yrs to <2 yrs : 50%					
	2 yrs to <3 yrs : 75%					
	=>3 yrs : 100%					
	Total for Sr. Bridge Design Specialist	5.00		4.33		4.88

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পরিকল্পনা বিভাগ
এনইসি-একনেক ও সমৰাজ অনুবিভাগ
একনেক শাখা-১
শেরে বাংলা নগর, ঢাকা।

অতি জনুরী
বিশেষ রাহস্য মারফত

(6)

স্থানক: ২০,০০,০০০,৪১৬,১৪,০৩৩,১৯-৪৯.

তারিখ: ১৮, ০৬, ২০১৯

বিষয়: একনেক কর্তৃক অনুমোদিত "বরিশাল-পটুয়াখালী সড়কে পায়রা নদীর উপর পায়রা সেতু (লেবুখালী সেতু) নির্মাণ (২য় সংশোধিত)"
শীর্ষক প্রকল্প অনুমোদন।

মুক্ত: একনেক সভার ফার্মিবুরণী নং: ২০,০০,০০০,৪১৬,০৬,০০৮,১৯-২২, তাৎ ১২,০৩, ২০১৯

উপর্যুক্ত বিষয় ও সূত্রের পরিপ্রেক্ষিতে নির্দেশক্রমে জানানো যাচ্ছে যে, "বরিশাল-পটুয়াখালী সড়কে পায়রা নদীর উপর পায়রা সেতু (লেবুখালী সেতু) নির্মাণ (২য় সংশোধিত)" শীর্ষক প্রকল্পটি গত ২৭, ০২, ২০১৯ তারিখে অনুষ্ঠিত একনেক সভায় অনুমোদিত হয়। একনেক মোট প্রকল্পিত ব্যয় ১৪৪৭৪, ০০ লক্ষ (এক হাজার চারশত সাতচারিশ হাতোটি টাকার লক্ষ) টাকা। এর মধ্যে জিওটি ৩৬৮৯৯, ০০ লক্ষ (তিনিশ আঠশটি হাতোটি টাকার লক্ষ) টাকা। এবং প্রকল্প সাহায্য (কেওফেরিইডি এবং ওএফআইডি) ১০৭৮৯৫, ০০ লক্ষ (এক হাজার আটাত্তু হাতোটি পচাশনয়ই লক্ষ) টাকা।

১। প্রকল্পটির অনুমোদিত স্বাক্ষরায়ন মৌয়াফকাল ব্যয়ে ০১ এপ্রিল ২০১৯ হতে ৩০ জুন ২০২২ পর্যন্ত।

২। প্রকল্পটির অনুমোদিত অঙ্গ ও অভিভিতক বিভাগিত ব্যয় বিভাজন বিবরণ :

(ক্ষেত্র টাকায়)

ক্রঃনং	অঙ্গের নাম	সংখ্যা/ পরিমাণ	জিওটি	প্রকল্প সাহায্য		গোটা ব্যয়
				আরপিএ	ডিপিএ	
রাজস্ব ব্যয় :						
১.	কর্তৃপক্ষদের বেতন	৪৬৫,৬১ জনমাস	১৮৯,৭৫	০,০০	০,০০	১৮৯,৭৫
২.	কর্তৃপক্ষদের বেতন	১৯৪ জনমাস	৫২,৫৩	০,০০	০,০০	৫২,৫৩
৩.	জ্ঞাত	থোক	১৬২,১৬	০,০০	০,০০	১৬২,১৬
৪.	ট্রান্সফার এলাউস	থোক	৩,০০	০,০০	০,০০	৩,০০
৫.	প্রোটেজ	থোক	৫,০০	০,০০	০,০০	৫,০০
৬.	টেলিফোন/টেলিগ্রাম/টেলিপ্রিটার	থোক	৪,০০	০,০০	০,০০	৪,০০
৭.	টেলিইয়া/ফ্যাক্স/ইন্টারনেট	থোক	২,০০	০,০০	০,০০	২,০০
৮.	গ্যাস (সিএনজি)	২১৬ ডিএম	১৫,৩০	০,০০	০,০০	১৫,৩০
৯.	পেট্রোল ও লুভিকেন্ট	২৭৮,৯০ ডিএম	৭৬,১৭	০,০০	০,০০	৭৬,১৭
১০.	প্রিন্টিং ও প্রার্বলিকেশন	থোক	১০,০০	০,০০	০,০০	১০,০০
১১.	ক্ষেত্রনালী, সীল ও স্ট্যাঙ্কস	থোক	১৫,০০	০,০০	০,০০	১৫,০০
১২.	বিজ্ঞাপন	থোক	৫,০০	০,০০	০,০০	৫,০০
১৩.	পুনর্বাসন পরিকল্পনা বাস্তবায়নের জন্য এনজিও সার্টিস (রিসেটেন্টম্যাট প্ল্যান ইমপ্রিমেশন)	থোক	৯৯,৭৮	০,০০	০,০০	৯৯,৭৮
১৪.	জিওটি ও সুপারডিশনের জন্য প্রযোজ্ঞক মেরা:					
(ক)	দেশী ও বিদেশী প্রয়োজনীয় প্রযোজ্ঞকদের প্রযোজ্ঞক	৮০৫ জনমাস	৮৬৬,৬৮	৬০১,৪৪	১৭৮৬,২৯	৩২৫৪,২৬
(খ)	রিইমোবার্সিবল এক্সপ্রেস	থোক	২০৫,৮৫	৪২৬,৪৬	১০৫,৭৩	৭৩২,০৪
(গ)	শিক্ষা সফর/ট্রেনিং	থোক	৭০,০০	০,০০	২০০,০০	২৭০,০০
১৫.	শ্যামেল অব এক্সপ্রেস (কর্প সুপারডিশন অব রিভার বাংলাক প্রটেক্ষিং ওয়ার্ক, মেইন কৃষ্ণ সুপারডিশনকার্ট ওয়ার্ক, ইটিপি)	থোক	৫০০,০০	০,০০	০,০০	৫০০,০০
১৬.	হায়ার অব সিকিউরিটি সার্টিস	১৫৮৪ জনমাস	৪৭০,৯৬	০,০০	০,০০	৪৭০,৯৬
১৭.	বিভিন্ন সভার সম্মানী	থোক	৩৬,৭৪	০,০০	০,০০	৩৬,৭৪
১৮.	কম্পিউটার সরঞ্জাম	থোক	১৫,০০	০,০০	০,০০	১৫,০০
১৯.	ফাঁশন/ অনুষ্ঠান	থোক	৫০,০০	০,০০	০,০০	৫০,০০
২০.	হায়ারিং চার্জ	৪৮৯,৩০ জনমাস	১১০,১৮	০,০০	০,০০	১১০,১৮
২১.	অন্যান্য ব্যয়	থোক	৫০,০০	০,০০	০,০০	৫০,০০
২২.	যানবাহন মেরামত, রঞ্জাবোকেশণ ও পুনর্বাসন	থোক	৩৫,০০	০,০০	০,০০	৩৫,০০
২৩.	অসমবাপত্রের মেরামত ও রক্ষণাবেক্ষণ	থোক	৫,০০	০,০০	০,০০	৫,০০
২৪.	অফিস সরঞ্জাম মেরামত ও রক্ষণাবেক্ষণ	থোক	৩,০০	০,০০	০,০০	৩,০০
উপ-মোট (রাজস্ব ব্যয়):		-	২৮০৩,৬০	১০২৭,৭০	৭০৮৯,০২	৫৯২০,৩২

পৃষ্ঠা-১/৩



[Signature]

ক্রঃনং	অঙ্গের নাম	সংখ্যা/ পরিমাণ	জিওবি	প্রকল্প সাহায্য		মোট ব্যয়
				আরপিএ	ডিপিএ	
(খ) মূলধন ব্যয় :						
২৫.	প্রক্রিউরমেন্ট অব এ্যাসেট :					
২৬.	গাড়ী ক্রয় (ভুটি জিপ ও ১টি ডাবল টেন্সার শিকড়াপ)	৩টি	২৪০.০০	০.০০	০.০০	২৪০.০০
২৭.	কম্পিউটার / ল্যাপটপ	৮টি	৭.০০	০.০০	০.০০	৭.০০
(ক) অফিস সরঞ্জাম :						
(ক)	ফটোকপি মেশিন	১টি	৩.০০	০.০০	০.০০	৩.০০
(খ)	ফ্যাক্স মেশিন	১টি	০.৪০	০.০০	০.০০	০.৪০
২৮.	আসবাবপত্র	থোক	৭.৫০	০.০০	০.০০	৭.৫০
(গ) ভূমি অধিগ্রহণ ও অন্যান্য :						
(ক)	ভূমি অধিগ্রহণ	১০.৩০ হেক্টর	২৮৬০.১৫	০.০০	০.০০	২৮৬০.১৫
(খ)	রিসেলেট্যুন্ট	থোক	৫৩০.৬৪	০.০০	০.০০	৫৩০.৬৪
৩০.	তোক কার্জ :					
(ক)	জেনারেল আইচ সাইট ফ্যাসিলিটিস	থোক	৫৫০.৭২	১১২৭.০৯	১১২৮.৫৪	১৬৭৬.৫৬
(খ)	বিজ নির্মাণ :					
১)	ফাউন্ডেশন ওয়ার্ক	থোক	৪৮৫৫.৪১	১৬০৮৪.৪১	১৫৬২২.৪২	১৫৬২২.৪২
২)	সাবস্ট্রাকচার অব বীজ	থোক	১৮৭৪.৪৪	৪৮৩৬.১৭	৪৮৩৭.০৭	৯৬৭৩.৬৮
৩)	সুপারস্ট্রাকচার অব বীজ	১৪৭০ মি.	৪৪৯৪.৯৭	১১৯৯.৯৭	১১৯৯.৫০	২২৮২৩.৭৮
(গ)	রিভার ব্যাংক প্রটোক্লিভ ওয়ার্ক	১৪৭৫ মি.	৬৩০৮.৭৮	১২৯১১.৩৫	১২৯১৩.৪২	১২৯১৩.৪২
(ঘ)	গ্রান্টেচ সড়ক মিশন	১২৬৮ মি.	৮৩৪.৬০	১৭০৮.০৬	১৬৯৫.৯৫	৪২০৭৭.৭৭
(ঙ)	আনুষঙ্গিক কাজ	থোক	১২৫.৯০	১৫৭.৬৭	১৫৫.৭১	৪৩৩২৮
(চ)	মেকানিক্যাল ও ইলেক্ট্রিক্যাল ওয়ার্ক	থোক	১১৯.৯১	২৪৫.৫২	২৪৩.৬৬	৬০৯.১৪
(ছ)	ডে ওয়ার্ক	থোক	১.৮১	৩.৭০	৩.৬৭	১.১৭
(জ)	প্রতিশনাল সাথ ফর মিটিং আদার এক্সপ্রেভিচার					
১)	রিলোকেশন অব পাবলিক ইউটিলিটি	থোক	৩৩.৯৭	৬৯.৫৬	৬৯.০০	১৮৬.৫০
২)	স্পেশাল ও এক্সিশনাল টেস্টস	থোক	৫.৬৬	১১.৫৯	১১.৫০	৪৮.১৫
(ঝ)	প্রতিশন ফর প্রাইস এভজাক্টিমেন্ট	থোক	২৯৫৬.৪৩	৬০৫০.৫৩	৬০০৪.৬৪	১৫০১১.৫৩
(ঠ)	অতিরিক্ত আইটি ও ড্যাট (পৃষ্ঠ কাজের জন্ম)	থোক	৪৪৭২.৮৯	০.০০	০.০০	৪৪৭২.৮৯
উপ-মোট (মূলধন ব্যয়) :						
(গ)	ফিক্সিক্যাল কন্টিনজেন্সি	১%	৩৬৮.২৮	৫৩৬.০৫	৫৪২.১৯	১৪৪৭.২২
(ঘ)	প্রাইস কন্টিনজেন্সি	১%	৩৬৮.২৮	৫৩৬.০৫	৫৪২.১৯	১৪৪৭.২২
সর্বমোট (ক+খ+গ+ঘ) :						
		-	৩৬৮২৯.০০	৫৩৬০৫.০০	৫৪২৯০.০০	১৪৪৭২৮.০০

৪। অনুমোদিত হয় সংশোধিত 'ডিপিএ'র (প্রত্যেক পাতায় স্বাক্ষরিত) এক প্রক্র এতদসঙ্গে পরবর্তী ব্যবস্থা প্রদর্শের জন্য সংযোজিত হল।

১৮/৫৩/১৯
তাহমিনা তাছীম

সিনিয়র সহকারী প্রধান
ফোন: ৯১৮০৮৮৮৩

সচিব
সড়ক পরিবহন ও মহাসড়ক বিভাগ
বাংলাদেশ সচিবালয়, ঢাকা।



স্মারক | ২০.০৬.০০০০.৪১১.১৪.১০৩৩.১৯-৪৯

তারিখ: ১৮.০৩.২০১৯

সদয় অবগতি ও প্রয়োজনীয় ব্যবস্থা গ্রহণের জন্য অনুলিপি (জোটার ক্রমানুসারে নথি):

- ১। সদস্য (সিনিয়র সচিব), সাধারণ অর্থনৈতিক বিভাগ, পরিকল্পনা কমিশন, শেরে বাংলা নগর, ঢাকা।
- ২। সদস্য, কার্যক্রম বিভাগ, পরিকল্পনা কমিশন, শেরে বাংলা নগর, ঢাকা।
- ৩। সদস্য, ভৌত অবকাঠামো বিভাগ, পরিকল্পনা কমিশন, শেরে বাংলা নগর, ঢাকা।
- ৪। সচিব, জনপ্রশাসন মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
- ৫। সচিব, অর্থ বিভাগ, বাংলাদেশ সচিবালয়, ঢাকা।
- ৬। ডারগাহ সচিব, বাস্তুবায়ন পরিবারিকক্ষ ও ঘূর্ণায়ন বিভাগ, শেরে বাংলা নগর, ঢাকা।
- ৭। প্রধান, ভৌত অবকাঠামো বিভাগ, পরিকল্পনা কমিশন, শেরে বাংলা নগর, ঢাকা।
- ৮। প্রধান প্রকৌশলী, সড়ক ও জনপথ অধিদপ্তর, তেজগাঁও ইন্ডাস্ট্রিয়াল কম্পোল কম্পাউন্ড, ঢাকা।
- ৯। প্রধান হিসাব বক্ষণ কর্মকর্তা, সড়ক পরিষহন ও মহাসড়ক বিভাগ, সচিবালয় ডবন ডম ফেইজ, ফেজ তলা, সেগুনবাগিচা, ঢাকা।

সদয় অবগতির জন্য অনুলিপি:

- ১। সান্দীয় সঙ্গীর একান্ত সচিব, পরিকল্পনা মন্ত্রণালয়, শেরে বাংলা নগর, ঢাকা।
- ২। সচিব মহোদয়ের একান্ত সচিব, পরিকল্পনা বিভাগ, শেরে বাংলা নগর, ঢাকা।
- ৩। মুক্তপ্রধান মহোদয়ের ব্যক্তিলভ কর্মকর্তা, এন্টারসিপ্রেনেক ও সময়া অনুরিভাস পরিকল্পনা বিভাগ, শেরে বাংলা নগর, ঢাকা।
- ৪। উপপ্রধান (একনেক) মহোদয়ের ব্যক্তিগত কর্মকর্তা, পরিকল্পনা বিভাগ, শেরে বাংলা নগর, ঢাকা।

১০/৩/২০১৯
১০/৩/২০১৯

(তাহসিনা তাছলীয়)
সিনিয়র সহকারী প্রধান
ফোন: ৯৮৮০৮৮৮৮৮৮

পৃষ্ঠা-৩/৩



প্রক

প্রত্যয়ন পত্র

বরিশাল-পটুয়াখালী মহাসড়কে পায়রা নদীর উপর পায়রা সেতু (লেবুখালী সেতু) নির্মাণ শীর্ষক অনুমোদিত প্রকল্পের আওতায় “Consultancy Services for Design and Construction Supervision of Paire Bridge (Lebukhali Bridge) Over the River Paire On Barishal-Patuakhali road- Request for Addendum-2” এর সঙ্গে Tender/Request for Proposal (RFP)/Contract Agreement ডকুমেন্টের সম্পূর্ণ সামগ্রস্য রয়েছে। সংশ্লিষ্ট কাগজপত্রে বর্ণিত তথ্য সার-সংক্ষেপে সুষ্পষ্টভাবে প্রতিফলিত হয়েছে। কোন বন্ধুনিষ্ঠ/উল্লেখযোগ্য তথ্য সার-সংক্ষেপে অনুলিখ নেই”

(মুর-ই-আলম)

পরিচিতি নং ২৩১৯৯৮০১৫০৭৪

প্রকল্প পরিচালক (তৎপৰ, চাঁদাম), সওজ

পায়রা সেতু (লেবুখালী সেতু) নির্মাণ প্রকল্প

বাংলাদেশ সড়ক মন্ত্রণালয়, পাইকগাড়া, মিরপুর, ঢাকা

(ইবনে আলম হাসান)

পরিচিতি নং ০০১০৩৩

প্রধান প্রকৌশলী

সড়ক ও জনপথ অধিদপ্তর

সড়ক ভবন, তেজগাঁও, ঢাকা।

