

BANGLADESH WATER DEVELOPMENT BOARD



PROJECT COMPLETION REPORT: IMED-04/2003(Revised)

Name of the Project: Protection of Louhajong Upazila complex area under Louhajong Upazila in Munshiganj District from the erosion of the river Padma.

Project Period: January 2013 to June 2015.

Name of Division : Dhaka O&M Division-1, BWDB, Dhaka.

Name of Circle : Dhaka O&M Circle, BWDB, Dhaka.

Government of the People's Republic of Bangladesh
Ministry of Planning
Implementation Monitoring and Evaluation Department.

PROJECT COMPLETION REPORT : IMED 04/2003 (REVISED)

A. PROJECT DESCRIPTION:

01. Name of Project : Protection of Louhajong Upazila complex area under Louhajong Upazila in Munshigonj District from the erosion of the river Padma.
02. Administrative Ministry/
Division : Ministry of Water Resources
03. Executing Agency : Bangladesh Water Development Board.
04. Location of the Project : Upazila: Louhajong, District : Munshiganj
05. Object of the Project :

Main objectives of the project are as follows:

- The main objective of the project is to protect the Louhajong upazilla complex area under Louhajong upazilla in the district of Munshiganj from severe erosion of the river Padma to provide safety of human lives, properties and infrastructures and to maintain an improved economic activities, commerce and trade.

06. Estimated Cost :

	(In Lakh Taka)	
	Original	Latest Revised
a) Total	2447.00	-
b) Taka	2447.00	-
c) Foreign Currency	-	-
d) Project Aid	-	-
e) RPA	-	-

07. Date of Approval :

	PCP	DPP
a) Original :	-	08-01-2013
b) Latest Revised :	-	N/A

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08. Implementation period :

	Date of Commencement	Date of Completion
a) Original	January 2013	December 2015
b) Latest Revised	N/A	N/A
c) Actual	January 2013	June, 2015

09. Financial Agreement (source wise):

9.1 Status of Loan / Grant:

a) Foreign Financing :

Source(s)	Currency as per Agreement	Amount in US\$ (Million)	Nature (Loan/Grant Supplier's credit)	Date of Agreement	Date of Effectiveness	Date of Closing	
						7	8
1	2	3	4	5	6	7	8

..... N. A.

b) GOB:

(In Lakh Taka)

Total Amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
2447.00	-	2447.00	-

9.2 Utilization of Project Aid: (Source wise)

(In Million)

	Total Amount		Actual Expenditure		Unutilized Amount	
	In US \$	In Local Currency	IN US \$	In Local Currency	In US \$	In Local Currency
1	2	3	4	5	6	7

..... N/A.

9.3 Reimbursable Project Aid (RPA)

(In Lakh Taka)

RPA Amount		Amount Spent	Amount claimed	Amount Reimbursed	Remarks.
As Per DPP	As per Agreement				
1	2	3	4	5	6

..... N/A.

B. IMPLEMENTATION POSITION

01. Implementation Period:

Implementation Period as per DPP		Actual Implementation	Time Over Run (% of Original Implementation Period)	Remarks
Original	Latest Revised			
1	2	3	4	5
January 2013 to December 2015	N/A	January 2013 to June 2015	N/A	Project completed before approved completion date.

02. Cost of the Project:

(In Lakh Taka)

Description	Estimated Cost		Actual Expenditure	Cost Over-run (% of original cost)	Remarks
	Original	Latest Revised			
1	2	3	4	5	6
Total	2447.00	N/A	1957.88	-	
Taka	2447.00	N/A	1957.88	-	
PA	-	-	-	-	

03. Project Personnel:

Sanctioned strength as per PP	Manpower employed during execution	Status of the existing Manpower			Manpower Employed	
		Manpower requirement for O&M as per PP	existing Manpower for O&M	Others	Male	Female
1	2	3	4	5	6	7
Officer(s)	Project work has been completed by the existing manpower of BWDB.					
Staff(s)						
Total						

..... Nil

04. Training of project Personnel (foreign/Local):

Field of Training /Study tour/work shop/ Semunar etc.	Provision as per PP		Actual		Remarks.
	Number of Person	Man- months	Number of Person	Man months	
1	2	3	4	5	6
a) Foreign Nil				
b) Local Nil				

05. Component wise Progress (As per Latest approved DPP):

Items of work (As per DPP)	Unit	Target (as per DPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
A. Revenue Components :						
(i) Petrol and lubricant	1 item	4.00	1 item	3.98	1 item	
(ii) Stationary, Seal, Stamps	1 item	1.00	1 item	0.98	1 item	
(iii) Printing and Publications for tender documents	1 item	1.00	1 item	1.00	1 item	
(iv) Survey and Investigation	1 item	5.00	1 item	4.99	1 item	
(v) Repair for existing transport & vehicle	3 Nos.	2.00	3 Nos.	2.00	3 Nos.	
(vi) Computer Accessories	1 item	0.50	1 item	0.50	1 item	
Revenue Components Sub-Total =		13.50		13.45		
B. Capital Component :						
i) Bank Protective/revetment works=792.50 m (Revetment= 600m & End Termination= 192.50m) In Between km. 74.290 to km. 74.890 by using CC block dumping, Geo-filter placing, C.C. Block pitching etc.	Km	2211.08	0.7925	1944.43	0.7925	
Capital Components Sub-Total (B)=		2211.08		1944.43		
Total cost (A+B)		2224.58		1957.88		
Physical Contingency (C)		44.45		-		
Price Contingency (D)		177.97		-		
Total Project Cost (A+B+C+D)		2447.00	100%	1957.88	100%	*

*The project achieved 100% physical progress in all components. Due to consideration of financial expenditure, the physical progress was shown in IMED-05 report of June,2015 is 87.60%.

06. Information Regarding Project Director(s):

Name & Designation with pay scale.	Full time	Part time	Responsible for more than one Project	Date of		Remarks.
				Joining	Transfer	
1	2	3	4	5	6	7
1. Md. Ruhul Amin Executive Engineer 22250-31250	-	Part time	Yes	10-04-2013	09-12-2014	
2. Mohammad Ali Superintending Engineer 25750 - 33750	-	Part time	Yes	10-12-2014	30-06-2015	Mr. Mohammad Ali acting as a Project Director vide memo no. 42.036.014.00.18.018. 2013-129 dt. 10-02-15 of MoWR.

07. Procurement of Transport (in nos.): Not Applicable

Type of Transport	Number as per DPP	Procured with date	Transferred to Transport Pool with date	Transferred to O&M with date	Condemned/ damaged with date	Remarks.
1	2	3	4	5	6	7
Car						
Jeep						
Minibus						
Bus						
Pick-up						
Truck						
Motor Cycle						
By-Cycle						
Speed Boat						
Speed Boat						
Launch						
Other with name						

08. Procurement of Goods, Works and Consultancy Service.

Goods & Works of the Project costing above Tk. 200.00 lakh and Consultancy above Tk. 100.00 lakh.

Description of procurement (goods/work/consultancy) as per Bid document	As per DPP (in crore Tk.)	Contract value (in crore Tk.)	Tender/Bid/Proposal		Date of completion of works /services and supply of goods.	
			Invitation date	Contract signing/LC opening date	As per contract	Actual
1	2	3	4	5	6	7
Bank protective work along the left bank of the Padma river near Louhajong Upazila Complex area (from Km. 74.290 to km. 74.490 = 200m) under Dhaka O&M Division-1, BWDB, Dhaka during fy 2012-2014. Package MUN/LOU-01.	5.5800	4.8152	27-02-2013	21-05-2013	13-06-2014	28-02-15
Bank protective work along the left bank of the Padma river near Louhajong Upazila Complex area (from Km. 74.490 to km. 74.690= 200m) under Dhaka O&M Division-1, BWDB, Dhaka during fy 2012-2014. Package MUN/LOU-012	5.5800	4.7685	27-02-2013	21-05-2013	13-06-2014	28-08-14
Bank protective work along the left bank of the Padma river near Louhajong Upazila Complex area (from Km. 74.690 to km. 74.890= 200m) under Dhaka O&M Division-1, BWDB, Dhaka during fy 2012-2014. Package MUN/LOU-03.	5.5800	4.8011	27-02-2013	21-05-2013	13-06-2014	28-08-14
Bank protective work along the left bank of Padma river near Louhajong Upazila Complex area (Upstream End Termination=128.50m) of Louhajong Upazila, District Munshigonj under Dhaka O&M Division-1, BWDB, Dhaka during the year 2013-2014 & 2014-2015. Package MUN/LOU-04.	3.5852	4.4326	22-09-13	04-12-13	30-04-15	25-06-15

Use of Project Consultant (s) (Foreign / Local) :

Name of the field	Approved man month		Actual man month utilized	Remarks
	As per DPP	As per contract.		
1	2	3	4	5

a) Foreign Nil

b) Local Nil

09. Construction / Erection / Installation Tools & Equipment :

Description of items	Quantity (As per DPP)	Quantity procured with date	Transferred to O&M with date	Deposed off as per rule with date	Balance	Remarks
1	2	3	4	5	6	7

..... N / A.

C. FINANCIAL AND PHYSICAL PROGRAMME:

1. (a) Original and revised schedule as per DPP.

(In Lakh Taka)

Financial year	Financial Provision & Physical target as per original DPP				Financial Provision & Physical target as per latest revised DPP			
	Total	Taka	PA	Physical %	Total	Taka	PA.	Physical %
1	2	3	4	5	6	7	8	9
2012-13	200.00	200.00	-	8.17%	-	-	-	-
2013-14	1510.00	1510.00	-	61.71%	-	-	-	-
2014-15	534.08	534.08	-	21.83%	-	-	-	-
2015-16	202.92	202.92	-	8.29%	-	-	-	-
Total	2447.00	2447.00	-	100.00%	-	-	-	-

(b) Revised ADP allocation and progress:

(In Lakh Taka)

Financial year	Revised Allocation & Target				Taka release	Expenditure & physical progress.			
	Total	Taka	P.A	Physical %		Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9	10
2012-13	100.00	100.00	-	4.09%	100.00	99.03	99.03	-	4.05%
2013-14	900.00	900.00	-	40.87%	900.00	899.42	899.42	-	50.15%
2014-15	970.00	970.00	-	36.69%	970.00	959.43	959.43	-	33.40%
2015-16	-	-	-	18.35%	-	-	-	-	-
Total	1970.00	1970.00	-	100%	1970.00	1957.88	1957.88	-	87.60%

△

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Objective as per DPP	Actual achievement	Reasons for shortfall, if any.
<ul style="list-style-type: none"> ➤ The main objective of the project is to protect the Louhajong upazila complex area under Louhajong upazila in the district of Munshiganj from severe erosion of the river Padma to provide safety of human lives, properties and infrastructures and to maintain an improved economic activities, commerce and trade. ➤ Valuable lands and establishments located in the vicinity of the vulnerable eroding area with approximate total worth of Tk. 13481.40 lakh are expected to be saved through proper execution of the project. ➤ The project has ensure safety of lives & properties and restore social & natural security along with environmental up-gradation from continuous threat of riverbank erosion for sustainable socio-economic enhancement in the entire area. 	Objectives have been achieved by the implementation of the project.	-

E. BENEEFIT ANALYSIS :

01. Annual Out-put:

It is a project consists of only one physical component like river bank protective work. It's direct benefit can not be quantifiable. Valuable immovable properties (both public & private properties) within the project area with approximate total worth of Taka 13481.40 lakh has been saved by virtue of implementation of the project. Safeguard of human life and properties and social and natural security from continued threat of river bank erosion for sustainable socio-economic enhancement has also been achieved in the area. Moreover Louhajong Upazila Complex area and Louhajong Bazar also been saved from the erosion of the Padma river. People of the project area are enjoying flood free and bank erosion protection since inception of the project.

Items of out-put	Unit	Estimated quantity expected at full capacity	Actual quantity of out-puts during the 1 st year of operation at full capacity (or during real production for newly completed project)
1	2	3	4
.....Not Applicable.....			

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02. Cost / Benefit :

Item	Estimated	Actual
(1) Benefit cost of the project	Not Applicable	Not Applicable
(i) Financial		
(ii) Economic		
(2) Internal rate of return	Not Applicable	Not Applicable
(i) Financial		
(ii) Economic		

03. Please give reason for shortfall, if any, between the estimated and actual benefit: Not Applicable.

F. MONITORING AND AUDITING.**01. Monitoring:**

Name & Designation of the inspecting official	Date of inspection	Identified Problems	Recommendations
1	2	3	4
(a) Ministry / Agency :			
01. Mr. Prodip Kumar Mohonto Deputy-Secretary, MoWR	24-08-2013	Not found	-
02. Mr. Joti Das Kundu Chief Engineer, Design, BWDB, Dhaka	11-05-2014	Not found	-
03. Mr. Md. Ismail Hossain Chief Engineer, Central Zone, BWDB, Dhaka	05-12-2014	Not found	-
(b) IMED :			
-	-	-	-
(c) Others (Please specify) :			
01. Honorable MP Sagufta Yasmin Amily Munshiganj-2	14-09-2013	Not found	-

02. Auditing during and after Implementation:**2.1. Internal Audit: Not Applicable**

Period of Audit	Date of submission of Audit Report.	Major findings/ objections	Whether objection resolved or not.
1	2	3	4
-	-	-	-

2.2. External Audit:

Audit Period	Date of submission of Audit Report.	Major findings/objections	Whether objection resolved or not.
1	2	3	4
2012-13 (12-11-2013 to 20-11-2013)	12-11-2013 to 20-11-2013	No Major findings/objections	Not resolved
2013-14 (11-12-2014 to 21-12-2014)	11-12-2014 to 21-12-2014	No Major findings/objections	Not resolved
2014-15 (05-08-2015 to 13-08-2015)	05-08-2015 to 13-08-2015	No Major findings/objections	Not resolved

G. DESCRIPTIVE REPORT :

01. General Observations / Remarks of the Project on:

1.1. Background:

The proposed project area is located at Louhajong upazila complex area under Louhajong upazila in Munshigonj district at left bank of the river Padma. This area has strategic locational advantage, situated at 50.00 km south of Dhaka city and about 30.00 km west of Munshigonj Town. The area is famous for rural commercial and administrative activities in the region.

The River Padma carries the combined discharge of the Ganges and the Jamuna River. High difference between peak discharge and low flow discharge create complexities in the morphological behaviour of the river Padma. Moreover the huge sediment and discharge generated from the vast upstream watershed area and human activities sometimes causes unpredictable behaviour of the river Padma. Generally, the Padma is known as a wandered river in nature. At present, the Padma River has turned as awfully wandered and meandered shape at said location. The intensity of erosion trend at the meandered segment seems devastating. Consequently, vast precious lands, homestead, many building of upazilla complex and other important installation adjacent to affected area are being damaged by severity of river erosion and engulfed into the river. During last 20 years, several important localities of Louhajong upazila were engulfed into the river Padma.

The river Padma has shifted towards countryside to about 4.00 km at this affected location and a large charland accreted at middle reach of the river in east-west track. Consequently this large char has divided the river into two channels and pushed into the banks by devouring the land in the country side. This caused to replenish vulnerability of erosion at said locations.

Due to severe bank erosion valuable cultivable land, homestead, govt. semi-govt. and privet installations of Louhajong upazila complex area has been engulfed into the river Padma. Public health building, shaheed minar, conference building, Assistant Police Super Office, major portion of thana complex, two-storied residential building of UNO Office, Upzila chairman office, staff-quarter, 300 shops, 300.00 m pucca road, huge amount of precious land other valuable installation already smashed down into the river. Besides many local households lost their homestead due to continuation of river bank erosion at this vulnerable segment. Consequently, said landless households are compelled now to live in impoverishment. In the circumstances, Louhajong upazila complex area now remain in continuous threatening of devastating river erosion. Lives properties and human hazards being jeopardized of erosion. River deep scouring, motion, at meandering segment of the river Padma increased the extent of severity of erosion. River depths at this place stand average (-) 9.30 m.

There is a long standing social demand and local administration for taking up immediate protective measures against extending river erosion at affected locations.

Feasibility study protection of the Padma left bank covering the area of Hasail- Garurgaon, Louhajong and Harirampur under "feasibility study for new projects under BWDB" has been completed on January' 2007 conducting by institute of water modeling (IWM).

Conducting the mathematical Modeling and physical Modeling IWM recommended the execution of 792.50 m (protected length= 600 m End Termination =192.50 m) revetment type structure at vulnerable location of Louhajong complex area on the basis of autonomous development scenario and risk analysis following WARPO guide lines. According to the guidelines WARPO and comparing depth average velocity at project site for Louhajong area structure category belongs to SC2 (moderate). It has been also pointed out that the delay in execution of the proposed work may cause to further increase the extent of erosion with adverse effect to lives and properties.

The project has been targeted for commencement and complete as 2012-2012 and 2014-2015 respectively.

1.2. Justification / Adequacy:

The project is justified as the background stated above prompted BWDB to take up the project for implementation.

1.3. Objectives:

Main objectives of the project are as follows:

- The main objective of the project is to protect the Louhajong upazila complex area under Louhajong upazila in the district of Munshigonj from the erosion of the river Padma to provide safety to human lives, properties and infrastructures and to maintain an improved economic activities, commerce and trade.
- Valuable lands and establishments located in the vicinity of the vulnerable eroding area with approximate total worth of Tk. 13481.40 lakh are expected to be saved through proper execution of the project.
- The project has ensure safety of lives & properties and restore social & natural security along with environmental up-gradation from continuous threat of riverbank erosion for sustainable socio-economic enhancement in the entire area.

1.4. Project revision with reasons:

Does not arise.

02. Rationale of the project in respect of Concept, Design, Location and Timing:

It comes out from the study that revetment type of protection measure with provision for post construction monitoring may be taken up. An adaptive approach of bank protection could be followed in this regard. It involves identification of the priority bank protection and its implementation. The need for the subsequent work would then be determined based on the river responses to the already constructed work. The model study covers predication of consequences of such partial measures that could be further fine-tuned by inclusion of updated field data.

Detailed Cost-Estimate for physical interventions of the project for implementation of the proposed 792.50 Meter bank protective works as recommended by the Technical Committee Report and included under this approved Development Project Proposal (DPP) has been prepared on the basis of approved design and later on phase wise implementation of physical work on the basis of latest river morphology and current Schedule of Rates of Dhaka O & M Circle, BWDB, Dhaka.

03. Brief description on planning and financing of the project and its applicability.

Project Identification
Project Preparation.
Appraisal
Credit Negotiation
Credit Agreement
Credit Effectiveness
Loan Disbursement
Loan Conditionality
Project Approval
Others (if any).

N.A.

1.2. Justification / Adequacy:

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Credit Agreement
Credit Effectiveness
Loan Disbursement
Loan Conditionality
Project Approval
Others (if any).

N.A.

04. Analysis of the Post Implementation situation and result of the Project.

- 4.1. Whether the beneficiaries of the Project have clear knowledge about the Target /Objectives of the project : **Yes.**
- 4.2. Programme for use of created facilities of the project: **Continuous.**
- 4.3. O &M Programme of the project: **Continuous.**
- 4.4. Impact of the project
 - 4.4.1. Direct: **Positive Impact**
 - 4.4.2. Indirect: **Positive Impact**
- 4.5. Transfer of Technology and Institutional Building through the project: **Positive impact.**
- 4.6. Employment generation through the project: **Yes**
- 4.7. Possibility of Self employment: **No**
- 4.8. Possibility of women- employment opportunity: **No**
- 4.9. Women's participation in development: **Yes**
- 4.10. Probable Impact Socio- Economic activity: **Positive impact**
- 4.11. Impact on environment: **Positive impact**
- 4.12. Sustainability of the project: **Sustainable.**
- 4.13. Contribution to poverty alleviation / reduction: **Positive Impact.**
- 4.14. Opinion of the public representatives, Local elite, Local administration, teachers, religious leaders women's representatives etc.: **Positive.**
- 4.15. Contribution of Micro-credit programmed and Comments of overlapping with any NGO activities. **Not Applicable.**

05. Problems encountered during Implementation (with duration & steps taken to remove those)

- | | |
|------------------------------|---|
| 5.1 Project Management - N/A | 5.12 Project and disbursement and reimbursement.- N/A |
| 5.2 Project Director- N/A | 5.13 Mission of the development partners.- N/A |
| 5.3 Land Acquisition – N/A. | 5.14 Time & cost over-run.- N/A |
| 5.4 Procurement – N/A | 5.15 Project Supervision / Inspection.-N/A |
| 5.5 Consultancy – N/A | 5.16 Delay in Decision.- N/A |

- | | |
|---|----------------------|
| 5.6 Contractor – N/A | 5.17 Transport – N/A |
| 5.7 Manpower – N/A | 5.18 Training – N/A |
| 5.8 Law & Order – In the project area, social unrest prevailed sometimes, which hampered physical progress & delayed progress of the work . | 5.19 Approval – N/A |
| 5.9 Natural calamity – N/A | 5.20 Others – N/A |
| 5.10 Project financing, allocation and release.-
N/A | |
| 5.11 Design formulation/approval – N/A | |

06. Remarks & Recommendations of the Project Director:

The main objective of the project is to protect the Louhajong upazila complex area under Louhajong upazila in the district of Munshigonj from the erosion of the river Padma to provide safety to human lives, properties and infrastructures and to maintain an improved economic activities, commerce and trade against river erosion. Valuable lands and establishments located in the vicinity of the vulnerable eroding area with approximate total worth of Tk. 13481.40 lakh are expected to be saved through proper execution of the project. The project has ensure safety of lives & properties and restore social & natural security along with environmental up-gradation from continuous threat of riverbank erosion for sustainable socio-economic enhancement in the entire area.

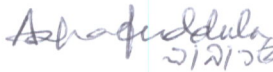
Due to implementation of the project, physical safety and sense of security among the project people have been developed, resulting in enhanced investment in housing and commercial buildings, enhanced investment in business and development work and have also caused positive impacts on agriculture and fish resources production and land prices. These all did shall cause enhanced opportunity of employment and poverty alleviation.

The very nature & objective of this project have direct relevance with the natural objective of attaining self-reliance, generation of rural employment, Poverty alleviation specially for rural poor section, creation of social & environmental balance & building of economic infrastructures for the future generation to sustain.

The commencement and completion of the project was scheduled to be accomplished in 2012-2013 to 2015-2016 as per approved DPP. Accordingly implementation completed six month before it's schedule time.

As the project area is a massive river erosion prone area. Hence, further bank protection work of upstream & downstream of the site is highly required. Also, regular maintenance of existing work is necessary for sustainability of this project.

Date



(Rezaul Mustafa Ashafuddula)
Executive Engineer
Dhaka O & M Division-1,
BWDB, Dhaka.


(Moham/mad Ali)
Superintending Engineer
Dhaka O & M Circle
BWDB, Dhaka.
&
Project Director.
Tel No. 02-7126130

07. Remarks/ Comments of Agency Head.

This project saved Louhojong upazilla complex area and coherent area from the erosion of the banks of river Padma. The project achieved its objectives successfully. But as the project is very near to Padma bridge construction site at Maawa, so it is very necessary to do more works on the U/S and D/S side of the project to protect the erosion of the Padma river.

Date.....


(Md. Ismail Hossain)
Director General
BWDB, Dhaka.
(MD. ISMAIL HOSSAIN)
Director General
BWDB, Dhaka.

08. Remarks/ Comments of the officer in-charge of the Ministry / Division.

Date.....

Signature and Seal.