

BANGLADESH WATER DEVELOPMENT BOARD



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

Name of the Project: **Protection of Alatuli area of Chapainawabganj District from the erosion of the Padma River (2nd Revised).**

PROJECT PERIOD: September 2012 to June 2018.

Division : Nawabganj O&M Division, BWDB, Chapainawabganj.

Circle : Rajshahi O&M Circle, BWDB, Rajshahi.

Zone : North-Western Zone, BWDB, Rajshahi.

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 Alatuli area of Chapai Nawabganj District from the erosion of the Padma River (2nd Revised).

02. Administrative Ministry/ Division : Ministry of Water Resource

03. Executing Agency : Bangladesh Water Development Board.

04. Location of the Project : Upazila – Sadar , District : Chapainawabganj.

05. Object of the Project :

Main objectives of the project are as follows:

The main objective of the project is to protect the Alatuli Area of Chapainawabganj District from the erosion of river Padma and to arrest bank erosion of the Padma river by implementing bank protective work. The project is targeted to safeguard human lives and properties and restore social and natural security from continued threat of river bank erosion for sustainable socio-economic enhancement in the area.

The overall objectives of the project are to avoid environmental imbalance due to river bank erosion in the area. Valuable immovable properties (both public and Private properties) with estimated total worth of Tk. 73000.00 lakh (at current market price) will be saved from river bank erosion due to implementation of the project.

06. Estimated Cost :

(In Lakh Taka)

	Original	1 st Revised	2 nd Revised
a) Total	16551.14	27418.39	28011.80
b) Taka	16551.14	27418.39	28011.80
c) Foreign Currency	-	-	
d) Project Aid	-	-	
e) RPA	-	-	

07. Date of Approval :

PCP	DPP
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a) Original	:	-	16/10/2012
b) 1 st Revised	:	-	21/10/2014
c) 2 nd Revised	:	-	08/10/2017

08. Implementation period :

	Date of Commencement	Date of Completion
a) Original	September, 2012	June, 2015
b) 1 st Revised	September, 2012	June, 2017
c) 2 nd Revised	September, 2012	June, 2018
d) Actual	September, 2012	June, 2018

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	
1	2	3	4	5	6	7	8

..... Not Applicable.....

b) GOB:

(In Lakh Taka)

Total Amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
28011.80	-	28011.80	-

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

..... Not Applicable.....

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

..... Not Applicable.....

B. IMPLEMENTATION POSITION**01. Implementation Period :**

Implementation Period as per DPP			Actual Implementation	Time Over Run (% of Original Implementation Period)	Remarks
Original	1 st Revised	2 nd Revised			
1	2	3	4	5	
September 2012 to June 2015	September 2012 to June 2017	September 2012 to June 2018	September 2012 to June 2018	105.88%	Time Over Run of Project implementation due to change of design because of oblique flow and increasing bank protection length from Meterage 1650.00 to 750.00 = 900 m

02. Cost of the Project:

(In Lakh Taka)

Description	Estimated Cost			Actual Expenditure	Cost Over-run (% of original cost)	Remarks
	Original	1 st Revised	2 nd Revised			
1	2	3		4	5	6
Total	16551.14	27418.39	28011.80	26631.63	60.91%	Due to change in project design & latterly inclusion of additional works.
Taka	16551.14	27418.39	28011.80	26631.63	60.91%	
PA	-	-		-	-	

03. Project Personnel: Project work has been completed by the existing manpower of BWDB.

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)						
Staff(s)						
Total						

..... Not Applicable.....

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 approved 2nd Revised DPP):

(In Lakh Taka)

Items of work (As per DPP)	Unit	Target (as per 2 nd Revised DPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
a. Revenue Components						
i) Petrol & Lubricant	1 Item	17.00	item	17.00	item	N/A
ii) Printing & Publication	1 item	1.00	item	1.00	item	
iii) Stationery, Seal, Stamps	1 item	3.40	item	3.40	item	
iv) Honorarium for the members of the Project Steering Committee and project related meeting	1 item	4.00	item	3.31	item	
iv) Honorium/fees for Mid-term Evaluation Committee	1 item	7.00	item	6.75	item	
v)Survey & Investigation	1 item	2.00	item	2.00	item	
vi) Computer Accessories	1 item	1.50	item	1.50	item	
vi) Other expnditure (Photocopier, Fax etc)	1 item	5.00	item	5.00	item	
vii) Repair of Transport and Vehicles (2 no.s)	1 item	6.60	item	6.60	item	
Revenue Components Sub-Total		47.50		46.56		
b. Capital Components						

i) Jeep (5 Door, (2350 -2700) C.C., Made by Pragoti Industries Ltd.)	Nos.	69.26	1	69.26	1	As per Decision of meeting of 6 th Steering Committee and recommendation of the Technical Committee dredging work was not required.
ii) Motor Cycle (3 Nos 125 C.C.)	Nos.	3.95	3	3.95	3	
iii) Levelling Machine (2 Nos.)	Nos.	1.96	2	1.96	2	
iv) Computer (Brand 2 Nos.)	Nos.	1.97	2	1.97	2	
v) New Bank Revetment Work : From Meterage 750.00 to Meterage 7870.00 = 7.120 km	Km.	26791.68	7.12	26487.96	7.12	
vi) River dredging of Padma River at Alatuli: From Meterage 2400.00 to Meterage 5800.00 = 2.70 km	Km.	1075.48	2.70	-	-	
vii) O & M during construction	1 item	20.00	1 item	19.97	1 item	
Capital Components Sub-total		27964.30		26585.07		
Total (a+b)		28011.80		26631.63		
Physical Contingency		0.00	-	0.00	-	
Price Contingency		0.00	-	0.00	-	
Grand Total		28011.80	100.00%	26631.63	95.72%	

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. Mohammad Shahabuddin Superintending Engineer 50000 - 71200	Full time	-	Yes	16-05-2012	21-08-2014	
2. Md. Sajedur Rahman Sarder Superintending Engineer 50000 - 71200	Full time	-	Yes	08-09-2014	05-05-2015	
3. Mir Mosharrof Hossain Superintending Engineer 50000 - 71200	Full time	-	Yes	05-05-2015	29-07-2018	

07. Procurement of Transport (in nos.):

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	1	25/06/2015		01/07/2018	-	
Minibus	-	-	-	-	-	
Bus	-	-	-	-	-	
Pick-up	-	-	-	-	-	
Truck	-	-	-	-	-	
Motor Cycle	3	28/06/2015		01/07/2018	-	
By-Cycle	-	-	-	-	-	
Speed Boat	-	-	-	-	-	
Speed Boat	-	-	-	-	-	
Launch	-	-	-	-	-	

08. Procurement of Goods, Works and Consultancy Service.

Goods & Works of the Project costing above Tk. 100.00 lakh and Consultancy above Tk. 50.00 lakh.

Description of procurement (goods/work/consultancy) as per Bid document	As per 2 nd Revised DPP (in crore taka)	Contract value (in crore taka)	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
1. Bank Revetment Work (1Package) M. 7770.00 to M. 7870.00 = 100.00 m with U/S. end Termination. (WP-2; Lot- WP-2A)	8.56	8.56	07/06/13	31/12/13	24/01/15	20/11/15
2. Bank Revetment Work (1Package) M. 7570.00 to M. 7770.00 = 200.00 m (WP-2; Lot- WP-2B)	7.46	7.46	07/06/13	31/12/13	24/01/15	20/02/16
3. Bank Revetment Work (1Package) M. 7420.00 to M. 7570.00 = 150.00 m (WP-3A)	5.10	5.10	02/02/14	06/05/14	21/05/15	20/01/16
4. Bank Revetment Work (1Package) M. 7270.00 to M. 7420.00 = 150.00 m (WP-3B)	5.75	5.75	07/06/13	31/12/13	24/01/15	31/05/16
5. Bank Revetment Work (1Package) M. 7120.00 to M. 7270.00 = 150.00 m (WP-4; Lot- WP-4A)	5.78	5.78	02/09/13	07/01/14	24/01/15	28/06/16
6. Bank Revetment Work (1Package) M. 6970.00 to M. 7120.00 = 150.00 m (WP-4; Lot- WP-4B)	5.15	5.15	02/09/13	07/01/14	24/01/15	15/11/15
7. Bank Revetment Work (1Package) M. 6670.00 to M. 6970.00 = 300.00 m (WP-5)	11.06	11.06	01/12/14	24/04/15	04/06/16	30/06/17
8. Bank Revetment Work (1Package) M. 6370.00 to M. 6670.00 = 300.00 m (WP-6)	11.08	11.08	01/12/14	24/04/15	04/06/16	30/06/17
9. Bank Revetment Work (1Package) M. 6100.00 to M. 6370.00 = 270.00 m (WP-7)	10.54	10.54	01/12/14	24/04/15	04/06/16	31/05/17
10. Bank Revetment Work (1Package) M. 5800.00 to M. 6100.00 = 300.00 m (WP-8)	11.87	11.87	01/12/14	24/04/15	04/06/16	31/05/17
11. Bank Revetment Work (1Package) M. 5500.00 to M. 5800.00 = 300.00 m (WP-9)	11.36	11.36	01/12/14	24/04/15	04/06/16	31/12/17
12. Bank Revetment Work (1Package) M. 5200.00 to M. 5500.00 = 300.00 m (WP-10)	11.62	11.62	01/12/14	24/04/15	04/06/16	31/05/17
13. Bank Revetment Work (1Package) M. 4900.00 to M. 5200.00 = 300.00 m (WP-11)	11.26	11.26	01/12/14	24/04/15	04/06/16	31/05/17
14. Bank Revetment Work (1Package) M. 4600.00 to M. 4900.00 = 300.00 m (WP-12)	11.85	11.85	01/12/14	24/04/15	04/06/16	30/06/17
15. Bank Revetment Work (1Package) M. 4300.00 to M. 4600.00 = 300.00 m (WP-13)	11.91	11.91	01/12/14	24/04/15	04/06/16	30/06/17
16. Bank Revetment Work (1Package) M. 4000.00 to M. 4300.00 = 300.00 m (WP-14)	11.18	11.18	01/12/14	24/04/15	04/06/16	31/05/17
17. Bank Revetment Work (1Package) M. 3700.00 to M. 4000.00 = 300.00 m (WP-15)	11.46	11.46	01/12/14	24/04/15	04/06/16	31/05/17

18. Bank Revetment Work (1Package) M. 3400.00 to M. 3700.00 = 300.00 m (WP-16)	11.22	11.22	01/12/14	24/04/15	04/06/16	30/06/17
19. Bank Revetment Work (1Package) M. 3100.00 to M. 3400.00 = 300.00 m (WP-17)	11.30	11.30	04/08/15	03/12/15	25/06/17	30/06/17
20. Bank Revetment Work (1Package) M. 2800.00 to M. 3100.00 = 300.00 m (WP-18)	11.26	11.26	04/08/15	03/12/15	25/06/17	30/06/17
21. Bank Revetment Work (1Package) M. 2500.00 to M. 2800.00 = 300.00 m (WP-19)	11.68	11.68	04/08/15	03/12/15	25/06/17	25/06/17
22. Bank Revetment Work (1Package) M. 2200.00 to M. 2500.00 = 300.00 m (WP-20)	11.55	11.55	04/08/15	03/12/15	25/06/17	15/10/17
23. Bank Revetment Work (1Package) M. 1900.00 to M. 2200.00 = 300.00 m (WP-21)	11.42	11.42	04/08/15	03/12/15	25/06/17	25/06/17
24. Bank Revetment Work (1Package) M. 1650.00 to M. 1900.00 = 250.00 m (WP-22)	9.53	9.53	04/08/15	03/12/15	25/06/17	15/10/17
25. Bank Revetment Work (1Package) M. 1350.00 to M. 1650.00 = 300.00 m (WP-23)	8.56	7.70	06/09/17	19/12/17	25/06/18	25/06/18
26. Bank Revetment Work (1Package) M. 1050.00 to M. 1350.00 = 300.00 m (WP-24)	8.55	7.72	06/09/17	19/12/17	25/06/18	30/06/18
27. Bank Revetment Work (1Package) M. 750.00 to M. 1050.00 = 300.00 m and D/S. End Termination . (WP-25)	9.84	8.92	06/09/17	19/12/17	25/06/18	30/06/18

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

..... Not Applicable



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 approved 2 nd Revised DPP.			
	Total	Taka	PA	Physical %	Total	Taka	PA.	Physical %
1	2	3	4	5	6	7	8	9
2012-13	300.00	300.00	-	1.81	0.00	0.00	-	0
2013-14	10487.70	10487.70	-	63.37	1622.32	1622.32	-	5.79
2014-15	5763.44	5763.44	-	34.82	2003.98	2003.98	-	7.16
2015-16	-	-	-		7508.95	7508.95	-	26.81
2016-17	-	-	-		12500.00	12500.00	-	44.62
2017-18	-	-	-		4376.55	4376.55	-	15.62
Total	16551.14	16551.14	-	100.00%	28011.80	28011.80	-	100.00%

1. (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	0.00	0.00		0	0.00	0.00	0.00		0
2013-14	1634.00	1634.00	-	5.79	1634.00	1622.31	1622.31	-	5.79
2014-15	2017.00	2017.00		7.16	2017.00	2003.98	2003.98		7.16
2015-16	7512.00	7512.00		26.81	7512.00	7508.94	7508.94		26.81
2016-17	12500.00	12500.00	-	44.62	12500.00	12422.85	12422.85	-	44.62
2017-18	3084.00	3084.00	-	15.62	3079.00	3073.55	3073.55	-	11.34
Total	26747.00	26747.00	-	100.00	26742.00	26631.63	26631.63	-	95.72

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Objective as per DPP	Actual achievement	Reasons for shortfall, if any.
The main objectives of the project: ❖ To protect the Alatuli Area of Chapainawabganj District from the erosion of river Padma and to arrest bank erosion of the Padma river by implementing bank protective work. ❖ To safeguard human lives and properties and restore social and natural security from continued threat of river bank erosion for sustainable socio-economic enhancement in the area. ❖ To protect valuable immovable properties (both public and Private properties) with estimated total worth of Tk. 73000.00 lakh from river bank erosion. ❖ To avoid environmental imbalance due to river bank erosion.	❖ After completion of river bank Protection work at Shajahanpur, Alatuli and Debinagor Union in Sadar Upzila of Chapainawabganj District, the area has been protected from bank erosion of the river Padma . ❖ Human lives and properties has been saved from continued threat of the erosion of Padma River and restore social and natural security for sustainable socio-economic enhancement in the project area. ❖ After completion of the river bank protection work govt, non-govt. establishment and lives & properties of the people (estimated total worth of Tk. 73000.00 lakh) have been saved from the erosion of the river Padma. ❖ After completion of the river bank protection work, there is no adverse impact on environment.	No Shortfall.

E. BENEEFIT ANALYSIS :

1. Annual Out-put:

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
Implemented project has saved :			
Agricultural Lands and Garden	Ha	4042.50	4042.00
Educational Institute	No.	49	49
Mosque (Pucca & Temporary)	Nos.	62	62
Eidgah	Nos.	12	12
Mandir	Nos.	2	2
Office Building (Government/Semo-Govt.)	Nos.	13	13
Houses : Pucca/Permanent	Nos.	200	200
Houses : Kucha/Temporary	Nos.	1500	1500
Hat Bazar	Nos.	6	6
Bridge/Culvert (Large/Medium/ Small)	Nos.	11	11
Metallic Road (Regional & Local)	Km.	15.00	15.00
Electrical Transmission Lines	Km.	15.00	15.00
Transformer	Nos.	15	15

02. Cost / Benefit :

Item	Estimated	Actual
(1) Benefit cost of the project		
(i) Financial	1.08	It will be evaluated later by concern directorate of BWDB & IMED.
(ii) Economic	1.25	
(2) Internal rate of return		
(i) Financial	13.59 %	
(ii) Economic	16.92%	

03. Please give reason for shortfall, if any, between the estimated and actual benefit: N/A.

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 :			
1. Barrister Anisul Islam Mahmud, MP- Minister, Ministry of Water Resources	16/04/2017	Not found	প্রকল্পের কাজ সুষ্ঠুভাবে ও দ্রুত শেষ করতে হবে।
2. Md. Nazrul Islam, BirProtik; MP- State Minister, Ministry of Water Resources	16/04/2017	Not found	
3. Mohammad Jahangir Kabir, DG, BWDB	16/04/2017	Not found	
4. Md. Mahfuzur Rahman, ADG, BWDB	16/04/2017	Not found	
5. Mahmudul Hasan- District Commissioner, Chapainawabganj	16/04/2017	Not found	
6. Abdul Wodud, MP – Chapainawabganj-3	Several Times	Not found	প্রকল্পের কাজ সফলভাবে শেষ করার মাধ্যমে জনগনের জান মাল রক্ষা করতে হবে।
7. Md. Tanvir Akkas, AD, IMED	03/06/2016 - 04/06/2016		প্রকল্পের কাজের গুণগত মান রক্ষা ও নির্ধারিত সময়ে কাজ শেষ করতে প্রকল্প পরিচালককে সজাগ থাকতে হবে, পর্যাপ্ত অর্থ বরাদ্দ রাখতে হবে ইত্যাদি।
8. Tajkera Khatun, Director, IMED	12/03/2017	Not found	প্রকল্পের প্রশাসনিক মন্ত্রণালয়ের মনিটরিং জোরদার করতে হবে, পর্যাপ্ত অর্থ বরাদ্দ রাখতে হবে, কাজের গুণগত মান নিশ্চিত করতে হবে ইত্যাদি।
9. Mahmudur Rahman, Director, JRC.	27/09/2017	Not found	
10. Montu Kumar Biswas, Joint Chief, MoWR.	Several Times	Not found	নির্ধারিত সময়ে প্রকল্পের কাজ শেষ করতে হবে।
11. Md. Khalilur Rahman, Joint Secretary, MoWR.	Several Times	Not found	
12. Motahar Hossain, Chief Engineer, Design, BWDB, Dhaka	Several Times	Not found	ডিজাইন মোতাবেক প্রকল্পের কাজ বাস্তবায়ন করতে হবে।
13. Mohommod Ali, Chief	Several	Not found	প্রকল্পের কাজ ডিজাইন

Engineer, North-Western Zone, BWDB, Rajshahi .	Times		মোতাবেক সুষ্ঠুভাবে ও নির্ধারিত সময়ে শেষ করতে হবে।
14. Mir Mosharrof Hossain , Superintending Engineer / Project Director , Rajshahi O & M Circle, BWDB , Rajshahi.	Several Times	Not found	প্রকল্পের কাজ ডিজাইন মোতাবেক সুষ্ঠুভাবে ও নির্ধারিত সময়ে শেষ করতে হবে।
15. Moha. Sahidullah Kaiser, System Analyst, MoWR.	27/09/2017	Not found	সাধারণ জনগণকে বাপাউবোর কার্যক্রম সম্পর্কে জানাতে প্রকল্পের সার সংক্ষেপ বিল বোর্ড আকারে দেওয়া যেতে পারে।
16. Md. Mahamudul Hasan, AD, IMED.	09/05/2018	Not found	প্রকল্পের অবশিষ্ট কাজ নির্ধারিত সময়ে দ্রুত শেষ করতে হবে।
17. Abu Yousuf Mohammad Rasel, Senior Assistant chief, MoWR.	Several Times	Not found	নির্ধারিত সময়ে প্রকল্পের কাজ শেষ করতে হবে।

02. Auditing during and after Implementation:

2.1. Internal Audit: Not Conducted Yet.

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
07/11/2014-17/11/2014	Last Submitted 26/09/2017	ঠিকাদার চুক্তি মোতাবেক নির্দিষ্ট সময়ে কার্য সম্পাদনে ব্যর্থ হওয়া সত্ত্বেও জরিমানা আরোপ করত: আদায় না করায় বোর্ড/সরকারের রাজস্ব ক্ষতি ও প্রকল্পের গাড়ী ক্রয় না করা সত্ত্বেও গাড়ী টায়ার ক্রয়।	আপত্তির উপর ইতোমধ্যে ত্রি-পক্ষীয় সভা অনুষ্ঠিত হয়েছে এবং সে মোতাবেক নিষ্পত্তির জন্য জবাবও প্রেরণ করা হয়েছে।
28/01/2018-02/02/2018	26/06/2018	চুক্তিকৃত কাজের বিপরীতে ইন্সুরেন্স প্রিমিয়ামের উপর ভ্যাট না কর্তন ও প্রকল্পের মধ্যমেয়াদী মূল্যায়ন কমিটির সদস্যগণকে অনিয়মিতভাবে সম্মানীভাতা প্রদান	আপত্তির নিষ্পত্তি জন্য জবাব প্রেরণ করা হয়েছে।

G. DESCRIPTIVE REPORT :

01. General Observations / Remarks of the Project on: Protection of Alatuli area of Chapainawabganj District from the erosion of the Padma River.

1.1. Background:

River bank erosion has been considered as one of the most devastating natural hazards in alluvial lands of river in Bangladesh. The large seasonal variation in the river flow causes river bank erosion recurrently and migration of river banks. This has significant social and economic impacts. The loss of land, crops and property has lead to landless and impoverishment of thousands of people. In this backdrop, there have been growing concerns now for re-assessment of the economic and socio-political benefits of protecting important locations, infrastructures, valuable properties, growth centers etc. The issue has been duly emphasized in the national water policy. In last decades severe erosion occurred along the left bank of the padma river at Alatuli area of Chapai Nawabganj district, Apart from the damage of properties and loss of land, the main consequence of such continued erosion could be the merge of the Mahananda river with the Padma river at Alatuli area. In the long run, that might lead to the merger of the Mahananda river which could pose a potentially threatening condition of Chapai Nawabganj, Godagari, Rajshahi towns, Sonamaszid, highways and bank protective work of left bank of Padma river at Godagari. In 2008, the erosion continued along the left bank of the Padma consequent with along 1.00 km. bank line shifted.

The river reach upstream of Alatuli area has undergone substantial changes over the last decades. As a consequence the direction of the main flow in the Padma River makes a substantial angle with the course of the left bank near Alatuli area. This almost concave save, possibly in combination with neo-tectonic activity, induces a gradual shifting of the lower river western direction. As a consequence of this movement in combination of the plan form changes of the Padma / Mahananda rivers, increases the scour depth in front of Alatuli area and the left bank erosion is taking place over a substantial length of the Padma river in this region. The flow of the Padma is forced to flow along the western side of Alatuli area. The maximum discharge is 89000 cum/sec. for 100 years return period an extreme event. The maximum velocity is 3 m/sec. and maximum bed level may reach up to (-) 12.00 m PWD at western part of Alatuli Protection area. On 19th September 2008 a sudden bank slide on the left bank of the Padma River destroyed the Balu Tongi Govt. Primary house, and reduced the distance between the Padma river and Alatuli high school, Alatuli health complex to less than 100m which is considered to be critical for the stability of the area.

To Address this erosion problem, BWDB formed a technical committee vide BWDB memo no. 74-BWDB(Secr)/Plan- 1/Mis-3/2002; Dated 07/06/2009. A DPP was prepared as per recommendation of the Report of technical committee. The report was submitted to the Board on 26.07.2010. DPP costing Tk.15488.89 lakh was recast according to the decisions of the DPP rationalization meeting held on 26.01.2011 in MoWR. DPP costing Tk.16551.14 lakh was recast according to the decisions of the PEC meeting held on 20.11.2011 in Planning Commission. As per decision of the PEC meeting representative of the IMED visited the project area on 15.12.2011 and submitted a report. Accordingly cost of the project was estimated as per recommendation of IMED. Finally the project was approved y the ECNEC on 16.10.2012. The proposed project is honourable Prime Minister's Commitment Project.

DPP of the project had been approved by ECNEC on 16.10.2012 (Cost: Tk.16551.14 lakh, implementation period: September, 2012 to June, 2015) with a condition to include dredging of river costing Tk.750.00 lakh by reducing the cost of block dumping. As per that condition DPP has been recast (Cost: Tk.16551.14 lakh) Taka.

In the approved DPP, the provision for physical work was 6.22km protective work, 2.70km river dredging of Padma river at Alatuli. In the meantime actual cost as per tender and schedule of rates of the physical work had increased. Cost of the physical work had also been increased due to change in design. So the total cost of the project increased. In that perspective, MoWR instructed on 21.10.2013 to submitted revised DPP. Accordingly revised DPP was submitted Finally, 1st Revised DPP has been approved by the ECNEC held on 21.10.2014 (Cost: Tk.27418.39 lakh, implementation period: September, 2012 to June, 2017).

In the approved RDPP, the physical work were 6.22 km protective work and 2.70 km. river dredging of Padma river at Alatuli and Shahjanpur union of Chapai sadar Upazila. During the implementation of revetment work, unprotected river bank on downstream of the work faced severe erosion. The huge flow of the river was running along the bank which attacked the unprotected bank caused erosion. This erosion was severe. The bank of the river from M 1650 to down stream was being shifted to the country side by erosion of the river. If the erosion would not arrested immediately, the running work would be engulfed from the end of the work i.e. from M 1650. So, the protective measures on the bank of the project was needed to increase up to 900 m; i.e M 1650 to 750. The total physical work of the protective work stood 7120 m . This problem was also discussed in mid-term evaluation meeting held on dated 11.12.2016 at conference room of MoWR. In that perspective, MoWR instructed to submitted revised DPP. Accordingly PEC meeting held on 21.05.2017 in Planning Commission 2nd Revised DPP was submitted. Finally, 2nd Revised DPP has been approved by the honourable Planning Minister on 30.09.2017 (Cost: Tk.28011.80 lakh, implementation period: September, 2012 to June, 2018).

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:

The main objective of the project is to protect the Alatuli Area of Chapainawabganj District from the erosion of river Padma and to arrest bank erosion of the Padma river by implementing bank protective work. The project is targeted to safeguard human lives and properties and restore social and natural security from continue threat of river bank erosion for sustainable socio-economic enhancement in the area.

The overall objectives of the project is to avoid environmental imbalance due to river bank erosion in the area. Valuable immovable properties (both public and private properties) with estimated total worth of Tk. 73000.00 lakh will be saved from river bank erosion due to implementation of the project.

1.4. Project revision with reasons:

The project was revised twice for specific reasons. Approval of original and revised DPPs with reasons are described below:

1. Original DPP as proposed was approved by ECNEC on 16.10.2012 and Project Cost: 16551.14 lakh
2. 1st Revised DPP was approved by ECNEC on 21.10.2014 and Project Cost: 27418.39 lakh
3. 2nd Revised DPP was approved by Hon'ble Minister, Ministry of Planning on 30.09.2017 and Project Cost: 28011.80 lakh.

Revision was required for the following reasons:

In the implementation period of original DPP, actual cost as per tender and schedule of rates of the physical work had increased because DPP was prepared on the basis of Schedule of rate 2011-2012. Cost of the physical work had also been increased due to change in design because flow direction and nature changed to oblique flow. So the total cost of the project increased. In that reason, 1st Revised DPP was prepared by the instruction of MoWR on 21.10.2013. In the approved 1st Revised DPP, the physical work was 6.22 km of protective work. During the implementation of revetment work, unprotected river bank on downstream of the work faced severe erosion. The end of proposed bank protective work to downstream was being shifted to the country side by erosion of the river. If the erosion would not arrest immediately, the running work would be engulfed. Assistant Director of IMED visited the project site on 3/6/2016 to 4/6/2016. He mentioned in his report that to sustain the project, the physical work to the downstream as well as upstream of the project area will be increased. Chief Monitoring/ Convenor of Taskforce, BWDB visited the project on 4.12.2016 and asked the project authority to revise the project by increasing the protective length at downstream for achieving the objective of the project. This problem has also been discussed in Mid-term Evaluation meeting held on dated 11.12.2016 at conference room of MoWR.

The Midterm Evaluation Committee of the project with Chief Monitoring, BWDB visited the project on 18.12.2016 to 19.12.2016. The Committee and concern BWDB Engineers have discussed the problem and after the discussion, committee suggested to increase the revetment work. In that reason, 2nd Revised DPP was proposed.

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

Bangladesh is a densely populated with poor natural resources base, lack of industrialization and vulnerability of natural disasters; like flooding, river bank erosion, saline inundation and cyclones etc. made Bangladesh as one of the undeveloped countries in the world. The major problem responsible for poverty includes high level of landlessness due to river bank erosion (i.e. population displacement and potential and potential erosion damages and losses to productive agriculture and urban land and severs damage to property and infrastructure), recurrent floods, unemployment, illiteracy and malnutrition. The population to the Project area is very dense and landless is about 60%. Socio-economic development of the people through agriculture and business generation development providing flood control support and protection of potential lands, infrastructures of urban and rural areas from erosion damages is the main objective to alleviate poverty of the area. The project is placed in environmental screening category B since it's bank protective works by construction of improved bank revetment work, do not create irreversible and diverse adverse physical and social impacts. No adverse impacts identified during implementation period. As such, the in interventions by providing river bank protective work and development have very little impacts or no negative impacts in and around the area. The project prevents the erosion loss of about 4042.00 ha of rural area at Sadar Upzila in Chapainawabganj District and protect a population of about 1,10,000 people from loss of land, livelihood, property, displacement and impoverishment. Therefore, it was rationale to implement the project to mitigate river bank erosion.

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

- **Project Identification:**

The Project was initially identified by local politicians, local elites etc. Those stakeholders earnestly requested Honourable Member of Parliament-45, Chapainawabgonj-3 to address the problem of river erosion of the river Padma. Accordingly Honourable Member of Parliament-45, Chapainawabgonj-3 sent a letter to the Honourable Minister, Ministry of water Resources, to take up the project. Honourable Prime Minister declared to implement the project in the meeting during visit of Chapainawabgonj District on 23.04.2011.

- **Project Preparation:**

According to the instruction of Honourable Minister, Ministry of water Resources & the Secretary, Ministry of water Resources & the Director General, BWDB, the project was prepared. A technical committee was formed vide BWDB memo no. 74-BWDB/Plan- 1/Mis-3/2002; Dated 07/06/2009 to submit a feasibility report in respect of social, economical & environmental impact, safety of properties & infrastructures and also sustainability.

On the basis of Technical Report submitted by Committee, the project was prepared.

- **Appraisal:**

DPP was prepared as per recommendation of the report of Technical committee submitted to the BWDB on 26.07.2010. DPP costing Tk. 15488.89 lakh was recast according to the decisions of the DPP rationalization meeting held on 26.01.2011 in the MoWR. DPP costing Tk.16551.14 lakh was recast according to the decisions of the PEC meeting held on 20.11.2011 in Planning Commission. As per decision of PEC meeting representative of IMED visited the project area on 15.12.2011 and submitted a report. Accordingly cost of the project was estimated as per recommendation of IMED. Finally the project was approved by the ECNEC on 16.10.2012.

- **Credit Negotiation:** Not Applicable

- **Credit Agreement:** Not Applicable

- **Credit Effectiveness:** Not Applicable

- **Loan Disbursement:** Not Applicable

- **Loan Conditionality:** Not Applicable

- **Project Approval:** 2nd Revised DPP has been approved by the honourable Planning Minister on 30.09.2017

- **Others (if any):** Nil



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:

The created facilities are directly being given to the stakeholders i.e. the movable and immovable properties are saved from the erosion of the river by implementation of the Project.

4.3. O&M Programme of the project:

Post Project recurrence of O&M works shall be arranged from regular O&M budget allocation.

4.4. Impact of the project

4.4.1. Direct:

- Protection of major educational institutions, Agricultural Land, Mango Garden, Gov./Semi-Gov. Office and its establishment with its adjacent area about 4100ha land with movable and immovable properties of worth 7300.00 lakh have been ensured from the erosion of Padma river.

4.4.2. Indirect:

- Safety of human livelihood and properties.
- Safely protected rootlessness of people of the locality by ensuring stableness of their homesteads.
- Improvement of socio-economic condition.

4.5. Transfer of Technology and Institutional Building through the project:

N/A

4.6. Employment generation through the project:

A significant numbers of skilled & unskilled labours were engaged during the construction period and also a number of employment will be created by incurrent O&M work of the Project.

4.7. Possibility of Self employment:

Existing commercial hat bazar were protected from the erosion of the river that is why new business outlet, shops, commercial centers are being established along this bank which creates self-employment.



4.8. Possibility of women- employment opportunity:

The local destitute women are employed by the new business centre as well as women entrepreneurs evolve in the area.

4.9. Women's participation in development:

Women's participations has significantly been added in development Projects.

4.10. Probable Impact Socio- Economic activity:

A huge land and homesteads with permanent structures have been saved from the river erosion which positively impact on socio-economic condition and also upholds the activities.

4.11. Impact on environment:

By protection of land and homesteads from the bank erosion, the footlessness' of the people of the localities has been stopped. So, environment has been sustained and developed.

4.12. Sustainability of the project:

The project is sustainable but periodic maintenance has to be done regularly.

4.13. Contribution to poverty alleviation/reduction:

- Huge public & private movable and immovable properties of worth Tk. 73000.00 lakh dispersed around the said erosion prone area of the river bank have been saved that acts to reduce poverty of the area.
- It generated employment of labours during the construction of the Project as well as will create new employment opportunity during periodic maintenance by regular O&M budget allocation. Besides, new employment access will be opened by newly established market, outlets, business centre along the stable river bank.
- Natural security of river bank has been restored.

4.14. Opinion of the public representatives, Local elite, Local administration, teachers, religious leaders women's representatives etc.:

The public representatives, local elites, local administration, teachers, religious leaders, women's representatives wanted the Project that is why they have positive approach to this Project.

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

5.11 Design formulation/approval – N/A

5.2 Project Director- N/A

5.12 Project and disbursement and reimbursement.- N/A

5.3 Land Acquisition – N/A

5.13 Mission of the development partners.- N/A

5.4 Procurement – N/A

5.14 Time & cost over-run.- N/A

5.5	Consultancy – N/A	5.15	Project Supervision / Inspection.- N/A
5.6	Contractor – N/A	5.16	Delay in Decision.- N/A
5.7	Manpower – N/A	5.17	Transport – N/A
5.8	Law & Order – N/A	5.18	Training – N/A
5.9	Natural calamity – N/A	5.19	Approval – N/A
5.10	Project financing, allocation and release.- N/A	5.20	Others – N/A
No such problem arisen			

06. Remarks & Recommendations of the Project Director:

Main objective of the project was protection of Alatuli area and its establishment, important other installation and also provide an extended river bank erosion and flood protection coverage ensuring against cumulatively increased erosion of the Ganges/Padma river which was threatening the embankment and lands of about 4042 ha area in Sadar upazila of Chapainawabganj district. The objectives have been achieved by newly bank protection works along the left bank of the Padma river at Alatuli of length 7.12 km. Due to implementation of the Project, physical safety and security among the people inhabiting the project area have been developed, resulting enhance investment to build up new houses and commercial areas which has brought positive impact on agriculture production and extended business. These all are being caused to enhance the employment opportunity and trim down poverty.

By implementation of the project in time of approved RDPP, the land of the area has been secured. So, tendency of land less people has also been reduced at the area. Due to stable bank, new business of retail outlets, grocery shops, hat, bazar, market etc. are being established along the bank which created sustainable employment of the local people.

The whole physical work of this project has done within stipulated time frame as per approved design and specification. However, Physical progress of work was slow due to 1st Revision of DPP. During construction work several high officials of concerned Ministry, IMED and as well as BWDB visited in field level.

Quality control of all physical works performed by Taskforce, formed by BWDB. For transparency of all dumping materials were counted regularly by the same.

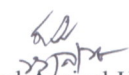
As per decision of technical committee dredging component was dropped because partial dredging work in Padma river would not be fruitful.

Recommendations:

There is active erosion in the adjacent area of upstream of the executed river bank protection works. Protective measures should be taken immediately in this eroded area under separate DPP.

Periodic/routine maintenance work should be taken every year. Cross sections should be taken periodically to observe the position of launching apron, observing the condition of launching apron necessary hard materials should be dumped to make the protective work sustainable.

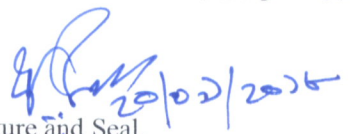
Date 22-02-2018


(Muhammad Amirul Haq Bhuiya)
Superintending Engineer
Rajshahi O&M Circle
BWDB, Rajshahi.

07. Remarks/ Comments of Agency Head.

This project is located about 2Km of downstream from the entrance of Padma river in Chapainawabganj district. Implementation of this project has protected Shatgahanpur, Alatuli and Debiganja union in Sadar upazila from left bank erosion of Padma river. About 4042 ha. of land have been protected near border area under this project. Net property savings through this project is as much as 730 crore taka. Thus, this Honorable Prime Minister's committee project is a great success.

Date.....


Signature and Seal.
(Md. Mahfuzur Rahman)
Director General
BWDB, Dhaka

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

Date.....

Signature and Seal.

