

IMED : 04/2003(Revised)



BANGLADESH WATER DEVELOPMENT BOARD

PROJECT COMPLETION REPORT

IMED FORM NO. : 04/2003 (Revised)

NAME OF PROJECT: Bank protection Work of the Meghna River from Borikandi to MP Bundh in Nabinagar Upazila in Brahmanbaria District(1stRevised).

DIVISION : BRAHMANBARIA W.D. DIVISION, BWDB, BRAHMANBARIA
CIRCLE : CUMILLA O&M CIRCLE, BWDB, CUMILLA
ZONE : EASTERN ZONE, BWDB, CUMILLA.

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

PROJECT COMPLETION REPORT : IMED 04/2003(Revised)

A. PROJECT DESCRIPTION:

01. Name of the Project : Bank protection Work of the Meghna River from Borikandi to MP Bundh in Nabinagar Upazila in Brahmanbaria District (1stRevised).
02. Administrative Ministry/Division : Ministry of Water Resources (MOWR)
03. Executing Agency : Bangladesh Water Development Board (BWDB)
04. Location of the Project : Upazila- Nabinagar, District- Brahmanbaria.
05. Objective of the Project :

- 1) To permanently protect the houses, roads, public and private schools, mosques, madrasas, temples, hat bazars, cultivable lands, paved roads, bridges etc. of the left bank of Meghna River from Borikandi to Dharabhanga will be permanently protected from the waves of Meghna river.
- 2) To protect aman and robi crops from water waves.
- 3) To Protect natural and human resources and reducing the risk of agricultural products;
- 4) To create employment opportunities in various fields.
- 5) To improve the quality of life through development in agriculture and non-agricultural sectors and protecting the property worth about 32515 lakh taka.

06. Estimated Cost :

(In Lakh Taka)

	Original	Latest Revised (1 st)
(a) Total	7109.05	7211.13
(b) Taka	7109.05	7211.13
(c) Foreign Currency	-	-
(d) Project Aid	-	-
(e) RPA	-	-

07. Date of Approval :

	PCP	PP
(a) Original	---	20/08/2019
(b) 1st Revised	---	22/02/2022
(c) 1 st no cost time extension	---	19/07/2022

08. Implementation :

	Date of Commencement	Date of Completion
(a) Original	October, 2019	June, 2021
(b) Latest Revised(1 st)	October, 2019	June, 2022
(c) No cost time ext.	October, 2019	June, 2023
(d) Actual	October, 2019	June, 2023

09. Financing Arrangement (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 Effective-ness	Date of Closing	
						Original	Revised
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
7211.13	-	7211.13	-

9.2 Utilization of Project Aid : (source wise)

(In million)

Source (s)	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						

9.3 Reimbursable Project Aid (RPA) :

(In lakh Taka)

R P A Amount		Amount Spent	Amount Claimed	Amount reimbursed	Remarks
As per PP	As per Agreement				
1	2	3	4	5	6
Not applicable					

B. IMPLEMENTATION POSITION

01. Implementation Period :

Implementation Period as per DPP		Actual Implementation Period	Time Over-run (% of original implementation period)	Remarks
Original	Latest Revised			
1	2	3	4	5
October, 2019 June, 2021	October, 2019 June, 2022	October, 2019 June, 2023	114.29%	Covid-19 Outbreak. Due to design/specification change 1 st revision was made and 1 package was awarded to the contractor after approval of 1 st RDPP during February, 2022.

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	7109.05	7211.13	6487.25	-	
TAKA	7109.05	7211.13	6487.25		
PA	--	--	--		

03. Project Personnel :

Sanctioned strength as per DPP	Manpower employed during execution	Status of the existing manpower			Manpower Employed	
		Manpower requirement for O&M as per DPP	Existing manpower for O&M	Others	Male	Female
1	2	3	4	5	6	7
Officer (s)	Existing manpower of the implementing agency were deployed during execution of the project. No separate manpower was engaged for the project.					
Staff (s)						
Total :						

04. Training of Project Personnel (Foreign/Local): No training was scheduled in this project

Field of Training/ Study tour/workshop/ Seminar etc.	Provision as per DPP		Actual		Remarks
	Number of person	Man-months	Number of person	Man-months	
1	2	3	4	5	6
a. Foreign	Not applicable				
b. Local	Not applicable				

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

Items of work (as per PP)	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 Component :						
Survey & Investigation	L.S	2.00	L.S	00.0	---	All survey work has been done under self-supervision.
Stationary Seal Stump	L.S	1.00	L.S	0.87	L.S	
Petrol & Lubricant.	L.S	1.50	L.S	1.50	L.S	
Seminar	Nos	4.00	2.00	0.00	----	Covid restrictions and o implement financial austerity.
Honorarium for the Members of PSC,PIC,TIC & Midterm evaluation	L.S	14.00	L.S	13.00	L.S	
Printing & Publication	L.S	1.00	L.S	0.95	L.S	
Motor vehicle	Item	2.00	4.00	1.90	4.00	
Sub-Total (Revenue)		25.50		18.22		
b) Capital Component :						
Motor Vehicle (Double Cabin pic up) (01 Nos)	Nos	56.00	1	0.00	---	To implement financial austerity.
Engineering & other equipment. (01 set)	Set	1.00	1 Set	0.99	1 Set	
Computer & accessories (01 set)	Set	1.00	1 Set	0.99	1 Set	
Bank protection Work of the left bank of the Meghna River from Km.0.000 to 2.165 = 2165m.	Km.	7019.63	2,165 km.	6460.60	2,165 km.	
Construction of Ghatla	Nos	8.00	4.0	6.45	4.0	
Sub-Total (Capital)		7085.63		6469.03		
Grand-Total (a+b)		7111.13	100%	6487.25	93.39%	

06. Information regarding Project Director(s):

Name & Designation with pay Scale	Full time	Part time	Responsible for more than one project	Date		Remarks
				Joining	Transfer	
1	2	3	4	5	6	7
Md. Zohirul Islam Superintending Engineer (Civil) 4 th grade Scale: 50000-71200	Full time	-	Yes	06-11-2019	10-06-2021	
Md. Abdul Latif Superintending Engineer (Civil) 4 th grade Scale: 50000-71200	Full time	-	Yes	10-06-2021	30-06-2023	

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
There was a provision for one Motor Vehicle but due to restriction on procurement of motor vehicle from the Ministry of Finance no transport was purchased under the project						

08. Procurement of Goods, Works and Consultancy Services:

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

Description of procurement (goods/works/ consultancy as per bid document)	Tender/Bid/Proposal Cost (in crore Taka)		Tender/Bid/Proposal		Date of completion of works/ services and supply of goods	
	As per PP	Contracted value	Invitation date	Contract signing/LC opening date	As per contract	Actual
1	2	3	4	5	6	7
Bank protection Work of the left bank of the Meghna River from Km.0.000 to km 0.400 = 400m.	DPP1027.64 RDPP1273.00	Original1014.88 Revised1271.60	30-12-2019	08-03-2020	30-05-2021	15-06-2023
Bank protection Work of the left bank of the Meghna River from Km.0.400 to km 0.900 = 500m.	DPP1284.55 RDPP1594.59	Original1268.60 Revised1592.84	30-12-2019	08-03-2020	30-05-2021	27-12-2022
Bank protection Work of the left bank of the Meghna River from Km.0.900 to km 1.900 = 1000m.	DPP2569.09 RDPP3198.40	Original2650.42 Revised3198.40	30-12-2019	05-05-2020	30-06-2021	24-06-2023
Construction of ghatla (04 Nos)	DPP5.00 RDPP8.00	Original7.20	10-12-2021	27-03-2022	30-06-2022	30-06-2022
Bank protection Work of the left bank of the Meghna River from Km.1.900 to km 2.165 = 265m.	DPP2055.27 RDPP953.64	Original854.50	10-12-2021	11-03-2022	30-06-2022	26-06-2023

- 8.2 Use of Project Consultant (s) (Foreign/Local) : No provision of deploying consultants in this project.

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 :	Not applicable			
b) Local :	Not applicable			

09. Construction/Erection/Installation Tools & Equipment:

Description of items	Quantity (as per DPP)	Quantity procured with date	Transferred to O&M with date	Disposed off as per rule with date	Balance	Remarks
1	2	3	4	5	6	7
Not applicable						

C. FINANCIAL AND PHYSICAL PROGRAMME:

01. (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	P.A	Physical%	Total	Taka	P.A	Physical%
1	2	3	4	5	6	7	8	9
2019-20	1137.39	1137.39	-	16%	1.30	1.30	-	0.02%
2020-21	5971.66	5971.66	-	84%	782.02	782.02	-	10.84%
2021-22	-	-	-	-	6427.81	6427.81	-	88.85%
Total	7109.05	7109.05	-	100%	7211.13	7211.13	-	100%

01. (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
2019-20	500	500	--	7.03%	0	-	-	--	0%
2020-21	2500	2500	--	28.12%	796.75	776.85	776.85	--	19%
2021-22	3070.00	3070.00	--	81%	3069.87	2875.16	2875.16	--	37%
2022-23	3267.00	3267.00	-	44%	3267.00	2820.17	2820.17	-	37.39%
Total						6487.25	6487.25	--	93.39%

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Objective as per DPP	Actual achievement	Reasons for shortfall, if any
1) To permanently protect the houses, roads, public and private schools, mosques, madrasas, temples, hat bazars, cultivable lands, paved roads, bridges etc. of the left bank of Meghna River from Borikandi to Dharabhanga will be permanently protected from the waves of Meghna river.	1) Borikandi, Nurjahanpur, Sonabalua, Muktarampur & Dharabanga villages under Nabinagar upazila have been protected from the huge water waves & scouring of Meghna river.	No short fall
2) To protect aman and robi crops from water waves.	2) Aman and robi crops have been protected from tidal wave.	
3) To protect natural and human resources and reducing the risk of agricultural products	3) Natural and human resources have been protected and the risk of agricultural products have been reduced	
4) To create employment opportunities in various fields	4) Employment opportunities have been created in various fields.	
5) To improve the quality of life through development in agriculture and non-agricultural sectors and protecting the property worth about 32515 lakh taka.	5) The property worth about 32515.00 lakh located in the project area has been protected and quality of life is improved.	

E. BENEFIT ANALYSIS

6) 01.. Annual Output:

Items of out-put	Unit	Estimated quantity expected at full capacity	Actual quantity of out-put during the 1st year of operation at full capacity (or during, real production for newly completed project)
Health Service Center	Nos	1	1
Govt. Primary & High Schools	Nos	9	9
Mosques	Nos	18	16
Madrasha	Nos	1	1
Buildings(One Storied)	Nos	150	143
Buildings (Two Storied)	Nos	130	126
Semi-Buildings	Nos	1200	1168
Houses	Nos	950	914
Roads	KM	20	18
Markets/Shops	Nos	235	222
Croplands	Hector	205	201
Graveyards	Nos	3	3

02. Cost/Benefit:

Item	Estimated	Actual
(1) Benefit cost ratio of the project		
(i) Financial	1.92:1.00	Will be evaluated later by concerned directorate of BWDB and IMED.
(ii) Economic	1.89:1.00	
(2) Internal Rate of Return		
(i) Financial	27.63%	
(ii) Economic	27.96%	

03. Please give reasons for shortfall, if any, between the estimated and actual benefit:

There is no short fall between the estimated and actual benefit.

F. MONITORING AND AUDITING

0.1 Monitoring:

Name & Designation of the Inspecting Official	Date of Inspection	Identified Problems	Recommendation /Comments
1	2	3	4
Ministry/Agency:			
Mohammad Rokon Ud-Doula Additional Secretary Ministry Of Water resources.	10-06-2022	No	The project Director & Executive Engineer should be more careful about tender evaluation, coordination, approval, implementation of steering committee decisions etc.
Syeda Salma Jafreen Additional Secretary Ministry Of Water resources.	16-07-2022	No	1.The Project work Progress should be increased. 2.The project work should be Implemented as per design and Specification.
S. M. Rezaul Mostofa Kamal Joint Secretary Ministry Of Water resources.	12-03-2022	No	1. In order to manufacture quality concrete blocks, the platform should be made properly at the place of block casting. 2. Regular maintenance work should be done properly from NDR budget.
Dipanwita Shaha Deputy-Chief Ministry Of Water resources.	12-03-2022	No	The Quality of Construction Materials such as MS rod,cement,sand,and concrete should be tested from the laboratory of Bangladesh University of Engineering Technology (BUET) or Chattogram University of Engineering Technology (CUET).

Name & Designation of the Inspecting Official	Date of Inspection	Identified Problems	Recommendation /Comments
1	2	3	4
A H M Anwar Pasha Deputy Secretary Ministry Of Water resources.	12-03-2022	No	Quality Control of Construction work must be ensured.
Khairun Nahar Deputy Secretary Ministry Of Water resources.	12-03-2022	No	Initiatives should be taken to plant trees in the project area.
Abdullah AL Arif Deputy Secretary Ministry Of Water resources.	22-01-2023	No	Complete the project within stipulated time.
S. M Sarwar Kamal Deputy Secretary Ministry Of Water resources.	10-06-2022	No	The Project work Progress should be increased.
Mohammed Mobassherul Islam Deputy Secretary Ministry Of Water resources.	10-06-2022	No	The project Director & Executive Engineer should be more careful about tender evaluation, coordination, approval, implementation of steering committee decisions etc.
M. Shan-E-Alam Misty Senior Assistant Secretary Ministry Of Water resources.	10-09-2020	No	Instructed to follow approved design for construction work.
IMED :			
Md. Saiful Islam Director General IMED	12-03-2022		In order to manufacture quality concrete blocks, the platform should be made properly at the place of block casting.
Mohammad Enamul Huque Joint Chief Planning Commission	12-03-2022	No	Initiatives Should be taken to plant trees in the project area.
Khalil Ahmed Director (Sactor-04) IMED	24-06-2022	No	Complete the project within stipulated time.
Md. Samsul Islam Deputy-Chief Planning Commission	12-03-2022	No	Regular maintenance work should be done properly from NDR budget.
Md. Sarwar Hossain Senior Assistant Chief Planning Commission	12-03-2022	No	The project Director & Executive Engineer should be more careful about tender evaluation, coordination, approval, implementation of steering committee decisions etc.
BWDB :			

Name & Designation of the Inspecting Official	Date of Inspection	Identified Problems	Recommendation /Comments
1	2	3	4
Md. Mahbur Rahman Chief Engineer (Planning) BWDB	10-06-2022		Complete the project within stipulated time.
Md. Moniruzzaman Chief Engineer Eastern Zone BWDB, Cumilla.	Several times	No	In order to manufacture quality concrete blocks, the platform should be made properly at the place of block casting.
Project Director Md. Abdul Latif Superintending Engineer (Civil) Cumilla O&M Circle	Several times	No	Instructed to follow approved design for construction work.
Md. Fahad Hasan Executive Engineer, Chief Monitoring, BWDB.	12-03-2022	No	The Project work Progress should be increased.
Ranjan Kumar Das Executive Engineer(A/C), Brahmanbaria WD Division.	Several times	No	Quality Control of Construction work must be ensured.
Khan Md. Waliuzzaman Executive Engineer(A/C), Brahmanbaria WD Division.	10-06-2022	No	Regular maintenance work should be done properly from NDR budget.
Md. Manzur Rahman Executive Engineer(C/C), Brahmanbaria WD Division.	Several times	No	Block Manufacture should be follow approved design.

0.2. Auditing during and after Implementation:

2.1 Internal Audit:

Period of Audit	Date of submission of Audit Report	Major findings/ objections	Whether objections resolved or not
1	2	3	4
2018-19 to 2020-21	12/06/2022	No objection	--

2.2. External Audit:

Audit Period	Date of submission of Audit Report	Major findings/ objections	BWDB sheet reply submitted. Not resolved yet.
1	2	3	4
2019-20 to 2020-21	28/09/2021	Financial loss For Failure to Insure against the risk of	Broad sheet reply submitted. Not

Audit Period	Date of submission of Audit Report	Major findings/ objections	BWDB sheet reply submitted. Not resolved yet.
1	2	3	4
		completion of work According to TDS. Tk:4,07,012	resolved yet.
2021-2022	09/11/2022	Financial loss For Including Non-Tendered Item in RDPP for which the item Rate was larger compared to approved DPP & BOQ. Tk:13,29,31,784	Broad sheet reply submitted. Not resolved yet.
	10.11.2022	Financial loss For Failure to Insure against the risk of completion of work According to TDS. Tk:69,754	Broad sheet reply submitted. Not resolved yet.

G. DESCRIPTIVE REPORT

1. General Observations/Remarks of the Project on:

1.1 Background

The streams of Surma and Kushiara rivers of Sylhet district meet in Ajmiriganjupazila of Habiganj district and flow as Kalni river. This combined flow is flowing further downstream from a place called Ashtagram in Kishoreganj district under the name of Meghna. Meghna is one of the largest rivers in Bangladesh. Almost all the water in the Meghalaya and Assam is discharged through the Meghna River. Every year due to the strong currents and waves during the monsoons, massive landslides occurs in the area adjacent to Dharabhanga from Borikandi in Nabinagar upazila. As a result of the erosion, the habitants of the area has lost valuable cropland, primary school, high school, Mosque, Hat-bazaar, shop, tower of mobile phone, houses etc. to the riverbed and caused the erosion. Many families in the 5 villages of Dharabhanga, Muktarampur, Nurjahanpur, Sonabalua and Borikandi have become destitute due to the river erosion. Therefore, implementation of bank Prptection work on the left bank of Meghna River from Borikandi to Dharabhanga MP bundh at a place called Dharabhanga under NabinagarUpazila is imperative. As a result, about 20,000 people of 5 villages in the area will be directly benefited. For that purpose a technical committee had been constituted to prepare a pre-feasibility technical report for the purpose of determining the technical feasibility of taking up protection Work projects and preparing the DPP. The project was approved by ECNEC on 20-08-2019 at a cost of Rs.7109.05 lakh Taka.

1.2 Justification/Adequacy

The project is located at Borikandi to MP Bundh in NabinagarUpazila in Brahmanbaria District. The main component of the project is construction of Protective work. After implementation of the project, the farmers of that area can save

their crops from unexpected erosion of wave action of Meghna River. The project will help the beneficiaries of that area to increase the food production. It will save the public & private properties of municipal area. It will also mitigate river erosion. It will Improve safety of immovable properties and socio economic condition of local people. Primary school, high school, Mosque, Hat-bazaar, shop, tower of mobile phone, houses, agricultural land & home stead will also be protected from the tidal waves.

1.3 Objectives

The objectives of the project are:

- To permanently protect the houses, roads, public and private schools, mosques, madrasas, temples, hat bazars, cultivable lands, paved roads, bridges etc. of the left bank of Meghna River from Borikandi to Dharabhanga will be permanently protected from the waves of Meghna river
- To protect aman and robi crops from water waves.
- To Protect natural and human resources and reducing the risk of agricultural products;
- To create employment opportunities in various fields.
- To improve the quality of life through development in agriculture and non-agricultural sectors and protecting the property worth about 32515 lakh taka. To create employment opportunities in various fields by increasing agricultural production

1.4 Project revision with reasons

The project was approved by ECNEC on 20-08-2019 at a cost of Tk.7109.05 lakhs, total 2.700 km in 4 packages of main physical works. Protection work was fixed at a cost of Tk.6936.55 lakhs and construction of 4 ghatlas at a cost of Tk5 lakhs. There was 4 main Packages out of 5 Packages. They are CW-01, CW-02, CW-03, CW-04 and CW-05. In the early stage, the procurement of CW-01, CW-02 and CW-03 was done by the rate schedule of 2016-17. After that the procurement was completed 0.11% of lower rate from original estimate of CW-01, 0.11% of lower rate from original estimate of CW-02, 4.98% of higher rate from original estimate of CW-03. The combined contract price was Tk 4933.90 lakhs. As a result, the contract value of the first 3 packages of protection works stands at Tk 4933.90 lakhs. The approved DPP specifies the strength of CC block as 9.00N/mm². But the Taskforce of the Board directed to use CC block of 12.00N/mm². and 100% Polypropylene Geo Bag, Which was not Mentioned in the approved DPP. This implementation at the field level was complicated. The decision was to use 100% Polypropylene bags for the remaining bags & Manufacturing of CC block of 12.00N/mm². In view of this, the estimated cost of the previously contracted 3 packages (CW-01, CW-02, CW-03) increased to TK.6065.99 lakhs from the earlier estimate of TK.4933.90 lakhs and package no. CW-04 increased to TK 8.00 lakhs from TK 5 lakhs. Moreover, A Feasibility committee was formed by the board on 06-04-2021 and with respect to the report of Feasibility committee, the length was reduced to 2.165 km from 2.700 km. Consequently, the estimate of Package No. CW-05 was reduced to TK.953.64 lakhs from TK 2125.90 lakhs. As a result, the design of the Protection work has been modified. As per the revised design and new schedule (for the year 2019-20) the expenditure on items related to manufacture and supply of CC Blocks (Item Code- 40-190) and supply of Geo Bags (Item Code- 40-320) increased. Due to this, DPP has been Revised. On 22/02/2022 the RDPP estimated Tk. 7211.13 was approved.

2. Rationale of the project in respect of concept, Design, Location and Timing.

Every year due to the strong currents and waves during the monsoons, massive landslides occurs in the area adjacent to Dharabhanga from Borikandi in Nabinagarupazila. As a result of the erosion, the habitants of the area have lost valuable cropland, primary school, high school, Mosque, Hat-bazaar, shop, tower of mobile phone, houses etc. to the riverbed. Many

families in the 5 villages of Dharabhanga, Muktarampur, Nurjahanpur, Sonabalua and Borikandi have become destitute due to the river erosion.

The nature and objective of the project have direct relevance of the national objectives of attaining self- reliance in food grain production, generation of rural development, poverty alleviation especially for rural poorer section, creation social & environmental balance and building economic infrastructures for the future generations to sustain. The Design was done by Design circle-04. The location, concept and the timing was selected by the technical committee formed on 10-12-2015 and with respect to the report of technical committee the DPP was prepared and the project was approved.

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

◆ **Project Identification:**

As per DO Letter of respective Member of the parliament of the people's republic of Bangladesh, the project area on the remaining length of Dharabhanga, Muktarampur, Nurjahanpur, Sonabalua and Borikandi villages was destroyed by the waves of the water body. The problems were identified by BWDB and to solve these problems through protective work project was taken. A technical committee which was formed by BWDB were recommended the preparation and implementation of the project.

◆ **Project Preparation:**

Addressing the above problems, Brahmanbaria W.D Division, BWDB Brahmanbaria prepared the project proposal consisting Construction of protection work and Slope Protection at Borikandi to MP Bundh in Nabinagar Upazila in Brahmanbaria District .

◆ **Appraisal:**

PEC meeting was held on 20/12/2017 in Planning Commission and decision was taken that the cost of construction and protection work provided in the DPP of the project should be formulated as per the latest rate schedule.

◆ **Credit Negotiation:** Not applicable

◆ **Credit Agreement:** Not applicable

◆ **Credit Effectiveness:** Not applicable

◆ **Loan Disbursement:** Not applicable

◆ **Loan Conditionality:** Not applicable

◆ **Project Approval:** The project was approved on October, 2019 & subsequent revision was approved on February, 2022.

◆ **Others (if any):** Nil

4. 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 stakeholders are directly taking advantages of the created facilities of the project.

4.3 O & M programme of the project:

Post Project recurrent O&M works will be arranged from the regular O&M allocation.

4.4 Impact of the Project -

4.4.1 Direct:

- 1) If the protection work is done, the houses, roads, public and private schools, mosques, madrasas, temples, hat bazars, cultivable lands, paved roads, bridges etc. of the left bank of Meghna River from Borikandi to Dharabhanga will be permanently protected from the waves of Meghna river.
- 2) Protecting aman and robi crops from water waves.
- 3) Protecting natural and human resources and reducing the risk of agricultural products;
- 4) To create employment opportunities in various fields.
- 5) Improving the quality of life through development in agriculture and non-agricultural sectors and protecting the property worth about 32515 lakh taka.

4.4.2 Indirect:

- Sustainable socio-economic enhancement.
- Enhancement of local employment.
- Enhancement of eco system and biodiversity.

4.5 Transfer of Technology and Institutional Building through the project:

Not Applicable

4.6 Employment generation through the project:

A large number of Skilled/Unskilled worker were Employed during Construction period .

4.7 Possibility of Self-employment:

There are possibilities of self-employment as existing commercial and business centers will be established.

4.8 Possibility of women-employment opportunity:

Most People of the project area are with limited source of employment. As such poverty is the part and parcel of their day-to-day life. By the implementation of this project, employment in business sector will be created due to socio-economic condition, micro-financing activities. Project will also create employment opportunities and these will ultimately contribute to poverty alleviation. Women can engage themselves to various household & handicraft and business employment opportunities after Development of the project area by this project.

4.9 Women's participation in development:

Women have participated with men during construction phase of the project

4.10 Probable Impact on Socio-Economic activity:

At post project condition, due to the protection work of the river, River Bank erosion has been eliminated in the project area. Additional crops are being produced. By protecting the river bank erosion, various infrastructures are saved from the erosion. As a result, socio-economic balance in the locality is enhanced.

4.11 Impact on environment:

Environmental enhancement is achieved through the implementation of the Project. Flood and water logging related disease reduced.

4.12 Sustainability of the project:

The project is sustainable but requires periodic maintenance.

4.13 Contribution to poverty alleviation/reduction:

The project fulfilled the following benefits in compatible strategic goal i.e.,

- a) Reduction of vulnerability to water related disaster,

- b) Manage erosion of river and protect both bank infrastructure of poverty alleviation as per SDG:
- c) The project ensures to save movable and immovable properties of total worth of approximately Tk. 32515 lakh .
- d) It generated employment for skilled/unskilled during construction period and also in annual O&M phase in project performance. Also better employment access in business tertiary sectors is enhanced.
- e) Natural security against river bank erosion is resorted.

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

Positive remarks regarding the project.

4.15 Contribution of Micro-credit programmes and Comments on overlapping with any NGO activities.

Not Applicable

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

5.1	Project Management	N/A
5.2	Project Director	N/A
5.3	Land Acquisition	N/A
5.4	Procurement	N/A
5.5	Consultancy	N/A
5.6	Contractor	N/A
5.7	Manpower	N/A
5.8	Law & Order	N/A
5.9	Natural calamity	N/A
5.10	Project financing, allocation and release	N/A
5.11	Design formulation/approval	

The approved DPP specifies the strength of CC block as 9.00N/mm². But the Taskforce of the Board has directed to use CC block of 12.00N/mm². Also, as 100% Polypropylene is not mentioned in the item specification of Geo Bag in the approved DPP. This implementation at the field level is complicated. The decision was to use 100% Polypropylene bags for the remaining bags & CC block of 12.00N/mm².

5.12	Project aid disbursement and re-imburement	N/A
5.13	Mission of the development partners	N/A

5.14 Time & Cost Over-run

- Time over run, due to covid-19 situation.
- Cost overrun, due to the minute of 2nd steering committee meeting. In this



meeting, the decision of using 100% PP bag and manufacturing of CC blocks strengthening 12.00N/mm² was taken. For this cost of the project was increased.

5.15	Project Supervision/Inspection	N/A
5.16	Delay in Decision	N/A
5.17	Transport	N/A
5.18	Training	N/A
5.19	Approval	N/A
5.20	Others	

- Due to unavailability of filling materials
- Due to the pandemic situation caused by covid-19.

6. Remarks & Recommendations of the Project Director:

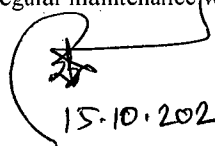
The project was approved by ECNEC on 20-08-2019 at a cost of Taka 7109.05 lakhs, total 2.700 km in 4 packages of main physical works. There were 5 Packages. They are CW-01, CW-02, CW-03, CW-04 and CW-05. After that RDPP was prepared because of time and cost overrun. On 22/02/2022 the RDPP estimated 7211.13 was approved.

During the implementation of this project, members of different committees & monitoring authorities visited project site and provided their opinions which has helped to implement the project. Project was implemented properly following respective design, drawing and specification. The quantity and quality of C.C blocks, Sand filled geo-bags etc. were ensured by Task force committee of BWDB and concerned officials of BWDB. In the whole, BWDB task force has monitored all the works to ensure transparency.

During implementation, problems related to filling material was faced. Also, there were lots of obstacles needed to overcome during geo-bag dumping work. Finally, all the works were completed maintaining desired quality. Now, the people of the project area are getting all the benefits of this project. Thus, the project area is now free from Bank erosion.

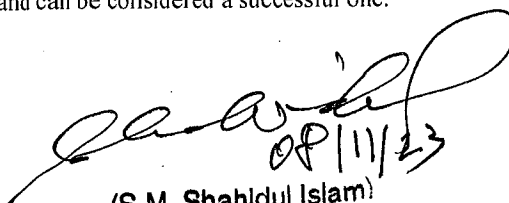
Finally, the over all progress of the project is 93.39%. The project has been completed successfully and beneficiaries are getting full benefit from the project. Proper monitoring and regular maintenance works are required for more sustainability of the project.


Md Manzur Rahman
Executive Engineer (C.C)
Brahmanbaria W.D Division
BWDB, Brahmanbaria.


15.10.2023
(Md. Abdul Latif)
Project Director
&
Superintending Engineer (Civil)
Cumilla O&M Circle

7. **Remarks/Comments of Agency Head**

The project was taken to permanently protect the left bank of Meghna river from erosion with a length of 2.165 km from Borikandi to Dharabanga MP Bundh in Nabinagar Upazila in Brahmanbaria District. Improvement of quality of life, protection of aman and robi crops, protection of natural and human resources etc. were achieved by completing this project. Overall, this project is serving its intended purpose and can be considered a successful one.


08/11/23
(S.M. Shahidul Islam)
ID NO: 650307001
Director General
BWDB, Dhaka

Date:

Signature and Seal

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

The project has been completed successfully with the objective to protect the area from the huge water waves and scouring of Meghna River.

Date:

Signature and Seal

