

BANGLADESH WATER DEVELOPMENT BOARD



PROJECT COMPLETION REPORT: IMED-04/2024

Name of the Project: Protection of Gohat and adjacent area including Khanabari from the right bank erosion of the Jamuna River at Gaibandha Sadar & Sundarganj Upazila in Gaibandha District (1st Revised).

PROJECT PERIOD: JULY 2020 TO JUNE 2024

DIVISION : GAIBANDHA WD DIVISION, BWDB, GAIBANDHA.
CIRCLE : RANGPUR WD CIRCLE-1, BWDB, RANGPUR.
ZONE : NORTHERN ZONE, BWDB, RANGPUR.

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

PROJECT COMPLETION REPORT (PCR): IMED 04/2024 (Revised)

A. PROJECT DESCRIPTION

01.	Name of the Project	:	Protection of Goghat and adjacent area including Khanabari from the right bank erosion of the Jamuna River at Gaibandha Sadar & Sundarganj Upazila in Gaibandha District (1st Revised).
02.	Administrative Ministry/Division	:	Ministry of Water Resources (MoWR).
03.	Executing Agency	:	Bangladesh Water Development Board (BWDB).
04.	Planning Commission Sector/Division	:	Agriculture, Water Resources and Rural Institutions Division
05.	Type of Project (Investment/Technical/Feasibility Study): Technical		
06.	Location of the Project (As per Project Document):		
Sl. No	Division	District	City Corporation/ Municipality/Upazila
1.	Rangpur	Gaibandha	Gaibandha Sadar & Sundarganj

07. Estimated Cost, Implementation Period and Approval: (In Lakh Taka)

Subject	Approved Estimated Cost				Implementation Period	Date of Approval	Approved by
	Total	GOB (Foreign Exchange)	PA (RPA)	Self-finance			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Original	40179.43	40179.43	-	-	July, 2020 to June, 2022	21-07-2020	ECNEC
1 st Revised	40175.96	40175.96	-	-	July, 2020 to June, 2023	12-04-2023	(MoWR).
2 nd Revised	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1 st No Cost Extension	40179.43	40179.43	-	-	July, 2020 to June, 2023	03-07-2022	(MoWR).
2 nd No Cost Extension	40175.96	40175.96	-	-	July, 2020 to June, 2024	06-07-2023	Planning Commission
Inter component Adjustment	N/A	N/A	N/A	N/A	N/A	N/A	N/A



08. Objective of the Project

Overall objective: The overall objective of the project is to reduce environmental degradations & human hazards due to river erosion with ensuring safety of lives & properties around the area.

Specific Objectives (in bullets):

- Protection of BRE Right Embankment, Sorai 6-vent Regulator and adjacent different infrastructure from right bank erosion of mighty river Jamuna by implementation of Bank Revetment work 1124 meter at Goghat, Kamarjani Union of Gaibandha Sadar Upazila, 2068.55 meter at Shreepur, 932.36 meter at Kapasia, 1276.54 meter at Lalchamar and 1309.25 meter at Horipur of Sundarganj Upazila, total 6710.70 meter under and 13.050 Km.

Embankment Re-Sectioning work in Gaibandha District.

- Protect valuable immovable properties of worth value Tk. 286485.00 lakh (Appendix-A) from right bank erosion of mighty river Jamuna by implementation of 6710.70 meter bank revetment work and 13.050 km embankment re-sectioning work.
- Agricultural Development, Social and Natural security and poverty reduction.

09. Background of the Project (In brief):

Bangladesh is a riverine country with an area of about 1, 47,570 square kilometers. The total area of the country is about 9,734 sq.km. Almost half of the landscape is occupied by the Ganga, Brahmaputra-Jamuna, and the largest rivers that flood the lowest point and have a height of 10 meters. On the other hand, 80 percent of the country's total land is floodplain, which is flooded during monsoons. In terms of climate, the climate of Bangladesh is characterized by humidity, temperate and opposite winds in winter and summer, which are distinct seasonal variations. Due to this strange behavior of nature, floods occur almost every year during the monsoon season and most of the land in the country is inundated as well as the banks of the rivers are prone to collapse. As a result, huge amount of wealth is threatened.

River channel change is a special feature of the Bengal basin. As a result, parts of the river and the entire course of the river may change from time to time. Due to this change in the course of the river, most of the water of the old Brahmaputra River is flowing through the Jamuna. Along with its large flow volume, the river Jamuna also carries a large amount of silt. The Jamuna/Brahmaputra River carries about 12 lakh tones of sediment daily during the monsoon season and the annual sediment carrying capacity of the Jamuna measured at Bahadurabad is about 735 million tonnes. Due to continuous decline in the water flow of the Jamuna/Brahmaputra River and carrying large amount of silt, numerous floodplains are formed across the river chest.

The Jamuna/Brahmaputra River has been gradually moving westward since its right bank broke. As a result, the cropland, villages, roads, public and private buildings of the vast area on the right bank of the Jamuna are lost every year in the womb of the Jamuna. In continuation of this, in the floods of 2015, 2016, 2017 and 2018, there was a huge breach of 2600 meters from BRE km 52.450 to km 55.050 in

Goghat and Khanabari area under Sundarganj upazila under Kamarjani union under Sadar upazila of Gaibandha district. Due to the rapid erosion of the river, many houses including schools, colleges, madrasas, and huge amount of cultivated land along with unpaved roads have been lost in the Yamuna and the destruction continues. An ADP-based project titled "Protection of Phulchari Head Quarters and Kamarjani Bazar from Erosion of Jamuna River" was implemented in FY 2009-10. Contrary to the mentioned project, temporary 1034 meter river bank conservation work has been implemented in Kamarjani Bazar. As a result of the implementation of the project, Gaibandha Sadar Upazila's Kamarjani Bazar, Baguria, Syedpur, Kanchipara, and adjacent areas have been saved from the Jamuna River's erosion. At present, due to strong currents and eddies, the river banks are gradually eroding, as a result of which Goghat Mauza government primary school, housing, agricultural land along with Kamarjani market and existing bank reclamation works have been damaged upstream. The people in the riverside areas are panicked and some houses including government primary school, community clinic in Goghat Mauza have collapsed and people are evacuating their houses and the extent of the damage is severe and regular damage continues. On 01/07/2017, the undersigned, Deputy Commissioner and Superintending Engineer, Rangpur WD Circle-1 along with visited the damaged places on site. Local dignitaries, district administration along with Hon'ble Member of Parliament of Gaibandha Sadar Constituency and Hon'ble Ex. Whip of Parliament Mr. Mahabub Ara Begum Gini visited the site earlier and requested the department to take measures to prevent the destruction on an urgent basis. During the current 2018 flood, the field level engineers and Superintending Engineer, Rangpur WD Circle-1 and Chief Engineer, Northern Region observed the extent of the damage during site visits several times in the past months. Efforts are being made to prevent breakage by dumping Geo-bags on an emergency basis at various times. But since it is much less than required, it is not possible to prevent breakage.

Moreover, on last 09-10-2014 Hon'ble Minister of Water Resources Ministry, State Minister, Secretary, Hon'ble Deputy Speaker of Parliament, Hon'ble Director General of BWDB, Additional Director General (Western Region), Chief Engineer, Northern Region, BWDB, Rangpur and other related officials. The breakdown of Sadar Upazila area was inspected on the ground. During the visit, high officials instructed to take necessary measures to protect the Brahmaputra Right Embankment (BRE) and important township from being swallowed by the Jamuna.

Local Honorable Parliament Member, Ex. Whip of Parliament Mr. Mahabub Ara Gini, (30-Gaibandha-2) and Barrister Shamim Haider Patwari, (29-Gaibandha-1) has also visited the said erosion prone areas for several time and submitted a D.O letter for taking necessary protective measure against river erosion. In that situation, on the demand of people from all sections of Sadar and Sundarganj Upazila of Gaibandha District this Development Project Proposal (DPP) has been prepared on priority consideration of immediate implementation to protect the Sadar and Sundarganj Upazila and Brahmaputra Right Embankment (BRE) from the severe erosion of Jamuna River.



10. Major Activities:

- Bank Protection -6.711 Km.
- Embankment Rehabilitation -13.050 Km.

11. Reasons for Revision (if applicable):

- 1st Revision:

The DPP was formed on October, 2018 based on the Trend of River Bank erosion at at kamarjani at Upazila Gaibandha Sadar, Shreepur, Kapasia, Lalchamar, Horipur and Konchibari-choyghoriya at Sundarganj Upazila. This is a very important project from people's point of view. This project was approved by ECNEC on 21-07-2020. The Administrative Order (AO) from Ministry of Water Resources was issued on 06-10-2020. The project duration was from 1 July, 2020 to 30 June, 2022 and the project cost was Taka 40179.43 Lakh. The project was taken to protect Brahmaputra Right Bank and Flood Control Embankment from engulfment of Jamuna River. After approval of the project, the Project Director was appointed on 18-08-2020.

Jamuna is a braided river and its morphological behavior is very much uncertain. After every flood of monsoon, it changes its courses. A Steering committee meeting (2nd) was held on 13/09/2021 which was Presided by Mr. Kabir Bin Anwar, Senior Secretary, MoWR. A decision was made in the meeting that "A technical committee will be formed to revise the DPP incorporating with strengthening BWDB Flood Control Embankment & River Bank erosion and it has to be done with highest priority". The Technical Committee, headed by Superintending Engineer, Design Circle-06, BWDB which was formed earlier by BWDB Board Secretariat vide its Memo. No. 42.01.0000.032.06.006.21-190 dated: 26-12-2021 consisting total 6(Six) nos member including 2(Two) Outside Member for the revision of this project was assigned to furnish a report incorporating recommendation made by Mr. Kabir Bin Anwar, Senior Secretary, MoWR.

The Technical Committee considering the local socio-economic and environmental conditions, financial and economic analysis and technical condition in the project area, recommended the following:

- It is recommended that the implementation of the choyghoriya package-01/2020-21 included in the original DDP of the project will not be required.
- Haripur-01/2021-2022 package included in the project excluding the upstream end termination, from BRE Km 39.730 to BRE Km 40.450, river bank protection work can be implemented continuously in 720 m, including 75.00 m river bank protection work. Haripur-01/2021-2022 can be implemented by saving money of the package.
- In the Kapasia area of Sundarganj upazila included in the project, river bank protection work can be implemented continuously in 400.00 meter from BRE km 47.300 to BRE km 47.700 downstream of the Kapasia-02/2020-2021 package. An end termination will be required to be constructed in the working furnace.

- In the Sreepur area of Sundarganj Upazila included in the project, upstream of the Kamarjani-02/2020-2021 package, under the Kamarjani-01/2020-2021 package, without construction of end termination, from BRE Km 51.910 to BRE Km 52.450 in a continuous 540.00 m section of the river bank Protection work can be implemented, including 150.00 meters of river bank protection work can be implemented with the money saved in the Kamarjani-01/2020-2021 package. An end termination will be required to be constructed upstream of the said 540m work.
- A total of 4.706 km of embankment rehabilitation work between km 54.060 to km 57.500 of Brahmaputra Right bank flood control embankment is recommended to be implemented.
- Based on Approved bank protection Design No. GAI-PRO-4100 (Sheet: 1 of 6 to 6 of 6) Date: 07/03/2022, GAI-PRO-4101 (Sheet: 1 of 5 to 5 of 5 Date: 07/03 /2022 and keeping 4.706 km of embankment rehabilitation work as per approved design the 1st Revised DPP can be reconstructed as per schedule of rates of Rangpur O&M Circle-1 for the financial year 2019-20.

A DPEC meeting for 1st revision of DPP was held on 13-03-2023 in the Ministry of Water Resources. The honourable Senior Secretary, MoWR presided the DPEC meeting. The 1st Revised DPP was prepared according to recommendation of that PEC meeting.

11.1 Reasons for No-Cost Time Extension (if applicable):

- 1st time No-Cost Time Extension
 - Due to Scarcity of fund additional time was required to complete the project.
 - Outbreak of World Pandemic Covid-19, the project implementation was delayed.
- 2nd time No-Cost Time Extension
 - Due to Scarcity of fund additional time was required to complete the project.
 - In spite of severe flood in 2022 & 2023 and outbreak of World Pandemic Covid-19, the project implementation was delayed.

12. Financing Arrangement (Source-wise):

12.1 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	
						Original	Revised
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

b) GOB:

Total amount	Loan	Grant	Cash Foreign Exchange
(1)	(2)	(3)	(4)
40175.96	-	40175.96	-

c) Self-finance/Equity:

Total amount	Self-finance	Equity	Cash Foreign Exchange
(1)	(2)	(3)	(4)
N/A	N/A	N/A	N/A

12.2 Utilization of Project Aid (Source wise):

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)
N/A	N/A	N/A	N/A	N/A	N/A	N/A

12.3 Reimbursable project Aid (RPA):

Source (s)	RPA Amount		Amount	Amount	Amount	Remarks
	As per Project Document	As per Agreement	Spent	Claimed	Re-imbrued	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
N/A	N/A	N/A	N/A	N/A	N/A	N/A

B. IMPLEMENTATION POSITION

13. Implementation Period:

Implementation Period as per Project Document		Actual implementation	Time Over-run (% of original implementation period)	Remarks
Original	Latest Revised			
(1)	(2)	(3)	(4)	(5)
July/2020 to June/2022	July/2020 to June/2023	July/2020 to June/2024	100.00%	Due severe flood in 2022 & 2023, outbreak of World Pandemic Covid-19 and lack of fund, the project implementation was delayed.

14. Cost of the Project:

Description	Estimated Cost		Actual Expenditure	Cost Over-run (% of original cost)	Remarks
	Original	Latest Revised			
1	2	3	4	5	6
Total	40179.43	40175.96	38858.56	(-3.29)	Didn't over run.
Taka	40179.43	40175.96	38858.56	(-3.29)	
PA	-	-	-	-	

(Handwritten mark)

15. Information regarding Project Director (s):

Name, Main Designation & Grade. Mobile Number (From Beginning)	Full time (Yes/No)	Part time (Yes/No)	Responsible for more than one project	Period		Remarks
				Joining	Transfer	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Md. Mokhlasur Rahman Executive Engineer, Gaibandha WD Division, BWDB, Gabandha 43,000-69,850(Grade-5)	Full	-	No	18/08/2020	18/10/2021	
Md. Abu Rayhan Executive Engineer, Gaibandha WD Division, BWDB, Gabandha 43,000-69,850(Grade-5)	Full	-	No	19/10/2021	27/11/2022	
Md. Ahsan Habib Superintending Engineer, Rangpur WD Circle-1, BWDB, Rangpur. 50,000-71,200(Grade-4)	Full	-	Yes	02/03/2023	30/06/2024	

16. Personnel:

16.1 Personnel of Project implementation Unit (PIU): Project work has been completed by the existing man power of Gaibandha WD Division, BWDB, Gaibandha.

Sl. No.	Name of Post (Grade)	Approved Strength	Employed during Implementation
(1)	(2)	(3)	(4)
Project work has been completed by the existing man power of Gaibandha WD Division, BWDB, Gaibandha.			
Total=			

16.2 Personnel Required after the Project Completion: **Not Applicable.**

Sl. No.	As Proposed in Project Document (PD)		Recruited (Yes/No)	If not recruited explain reason and latest status
	Name of Post	Number		
(1)	(2)	(3)	(4)	(5)
Total=				

17. Training (Foreign/Local): **No Provision of training in this Project.**

Category	Sl. No.	No. of Days/Weeks/Months (D/W/M), Batch & Participants					
		As in Project Document			Achievement		
		D/W/M	Batch (s)	Participants(s)	D/W/M	Batch (s)	Participants(s)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Local Training							
Sub Total=							
Foreign Training							

Sub Total=							
Total=							

(PD= Project Document)

.....N/A.....

18. Component-wise Progress (As per latest approved Project Document):

Name of Component	Unit	Quantity	Estimated Cost (Taka in Lac)					Actual Progress (Taka in Lac)				
			Total	GOB	PA	Self-finance	Others	Total	GOB	PA	Self-finance	Others
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(a) Revenue:												
Honorarium/Fees/Remuneration (for Different Committee).	Item		10.00	10.00	-	-	-	9.55	9.55	-	-	-
Honorarium/Fees/Remuneration (for Mid Term Evaluation)	Item		8.00	8.00	-	-	-	8.00	8.00	-	-	-
Labour Wages	Item		6.50	6.50	-	-	-	5.99	5.99	-	-	-
Advertising and Publicity	Item		1.00	1.00	-	-	-	0.99	0.99	-	-	-
Internal Travelling Cost	Item		6.00	6.00	-	-	-	5.99	5.99	-	-	-
Petrol, Oil & Lubricant	Item		8.00	8.00	-	-	-	7.30	7.30	-	-	-
Printing & Publication	Item		2.00	2.00	-	-	-	1.98	1.98	-	-	-
Stationery, Seals and Stamps	Item		3.00	3.00	-	-	-	2.99	2.99	-	-	-
Survey & Investigation	Item		9.00	9.00	-	-	-	8.99	8.99	-	-	-
Repair of Motor Vehicles	Item		3.00	3.00	-	-	-	2.99	2.99	-	-	-
Sub-total (Revenue)			56.50	56.50	-	-	-	54.77	54.77	-	-	-
(b) Capital												
Procurement of Motor Cycle (125 CC)-2 nos.	Nos	2 Nos	3.00	3.00	-	-	-	3.00	3.00	-	-	-
Computer with accessories: - 1 Nos.	Nos	1 Nos	0.80	0.80	-	-	-	0.80	0.80	-	-	-
Engineering Equipment: Leveling Instrument -2 sets.	Set	2 Set	2.00	2.00	-	-	-	2.00	2.00	-	-	-
Office Equipment : (Photocopy)	Set	1 Set	2.50	2.50	-	-	-	2.50	2.50	-	-	-
Furniture and fixtures.	Set	1 Set	6.00	6.00	-	-	-	5.99	5.99	-	-	-

Name of Component	Unit	Quantity	Estimated Cost (Taka in Lac)					Actual Progress (Taka in Lac)				
			Total	GOB	PA	Self-finance	Others	Total	GOB	PA	Self-finance	Others
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Bank Revetment Works	Km.	6.711	38315.10	38315.10	-	-	-	37390.27	37390.27	-	-	-
Re-habilitation of Brahmaputra Right Embankment	Km.	13.050	1690.06	1690.06	-	-	-	1399.23	1399.23	-	-	-
Sub-total (Capital)			40019.46	40019.46	-	-	-	38803.79	38803.79	-	-	-
Total a+b (Revenue+ Capital)			4075.96	4075.96	-	-	-	38858.56	38858.56	-	-	-

19. Procurement of Transport (in Nos.):

Type of transport	Number as per Project Document	Number Procured with date	Transferred to Transport Pool with date	Transferred to O & M with date	Condemned/damaged with date	Returned or transferred to following project	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Motor - Cycle	2 nos	2 nos 22/06/2022	-	22/06/2022	-	-	Being used by two Sub-Assistant Engineers for Future inspection and maintenance of the project.

20. Project Consultant (s) (Local/Foreign): **Not Applicable.**

Name of the Field	Approved man month		Actual man month utilized	Number of Deliverables		Remarks
	As per Project Document	As per contract		As per Project Document	Actual	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
a) Local:						
b) Foreign:						



21. Infrastructure/Erection/Installation Tools & Equipment:

Description	Quantity (as per project document)	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)
Computer With Accessories	1 Nos	1 Nos 30/06/2022	1.07.2024	-	1 Nos	Used for Future inspection and maintenance of the project and official purpose by WD Division, Gaibandha.
Levelling Instrument	2 Set	2 Set 30/06/2021	1.07.2024	-	2 Set	
Photocopier Machine	1 Set	1 Set 30/06/2022	1.07.2024	-	1 Set	

22. Procurement of Goods, Works and Services:

22.1 Information on packages:

a) Total number of packages as per Project Document: 33 (Goods- 5, Works-24 and Services- 4.)

b) Total number of packages procured: 33 (Goods- 5, Works-24 and Services- 4.)

c) Reason for not procuring (if any): N/A

d) Number of packages for which the estimated cost is more than 1% of the estimated cost of the project: 23 (Goods- 0, Works-23 and Services- 0.)

22.2 Detailed Package-wise information of Goods, Works and Services (For each case the highest 50 (fifty) packages) (Please use the format as in Annexure-1 (a), 1 (b) and 1(c))

C. FINANCIAL AND PHYSICAL TARGET AND PROGRESS

23. Original and Revised Financial Provision and physical Target (as per Project Document):

Financial Year	Financial provision & physical target as per original Project Document						Financial provision & physical target as per latest revised Project Document					
	Total	GOB	P.A.	Self-finance	Others	Physical %	Total	GOB	P.A.	Self-finance	Others	Physical %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2020-21	30993.22	30993.22	-	-	-	77.14%	134.38	134.38	-	-	-	0.33 %
2021-22	9186.21	9186.21	-	-	-	22.86%	6184.11	6184.11	-	-	-	15.39 %
2022-23							33857.47	33857.47	-	-	-	84.28 %
Total	40179.43	40179.43	-	-	-	100.00%	40175.96	40175.96	-	-	-	100.00 %

24. Revised ADP allocation and progress:

Financial Year	Revised Allocation & target						GOB Release	Expenditure & physical progress						Unspent* GoB Released
	Total	GOB	P.A.	Self-Finance	Others.	Physical %		Total	GOB	P.A.	Self-Finance	Other s.	Physical %	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)= 8-10
2020-21	150.00	150.00	-	-	-	10.50%	150.00	134.39	134.39	-	-	-	10.50%	15.61
2021-22	6200.00	6200.00	-	-	-	36.50%	6197.00	6184.10	6184.10	-	-	-	36.50%	12.90
2022-23	15100.00	15100.00	-	-	-	34.15%	15100.00	15099.94	15099.94	-	-	-	34.15%	0.04
2023-24	17911.00	17911.00	-	-	-	18.85%	17910.40	17440.13	17440.13	-	-	-	18.12%	470.27
Total=	39361.00	39361.00	-	-	-	100.00%	39357.40	38858.56	38858.56	-	-	-	99.27%	498.82

*Attach the Proof for Reconciliation of Unspent GOB Released

**To determine the physical quantity, use the formula as in the circular of Planning Division

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT

25. Project objective, Actual achievement and Reason for shortfall (if any)::

Objectives as per Project Document	Actual achievement	Reasons for shortfall (if any)
(a) Protection of BRE Right Embankment, Sorai 6-vent Regulator and adjacent different infrastructure from right bank erosion of mighty river Jamuna by implementation of Bank-Revetment work 1124 meter at Goghat, Kamarjani Union of Gaibandha Sadar Upazila, 2068.55 meter at Shreepur, 932.36 meter at Kapasia, 1276.54 meter at Lalchamar and 1309.25 meter at Horipur of Sundarganj Upazila, total 6710.70 meter under Gaibandha District.	Approximately 3100 nos Residential Household, 165 nos Government non-government office building, 40 nos Bridge/regulator/Culvert, 16 nos Hat-Bazar, 25 Km. Brahmaputra Flood Control Embankment and 400 hac. area of agricultural land and valuable immovable properties at Kamarjani, Shreepur, Kapasia, Lalchamar and Horipur area of Gaibandha Sadar & Sundarganj Upazila has been protected from devastating right bank erosion and flood of mighty river Jamuna.	No shortfall
(b) To protect valuable immovable properties of worth value Tk. 286485.00 lakh (Appendix-A) from right bank erosion of mighty river Jamuna by implementation of 6710.70 meter bank revetment work and 13.05 km embankment re-sectioning work.	Houses of the people living in the project area, protection of various public and private infrastructures, agricultural and non-agricultural land, forest, plantations, crops and various moveable-unmovable properties worth of Taka 286485.00 Lakhs has been protected from river erosion.	
(c) Agricultural Development, Social and Natural security and poverty reduction.	Implemented Protective work has ensured the stability of River near the project area and increased agricultural development, social and natural security by involving local manpower and locally available materials in the project work.	



E. BENEFIT ANALYSIS

26. 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
Existing Brahmaputra Flood Control Embankment	Km.	25	25
Residential Household with Government Non-Government Office building	nos	165	165
Different Office, Health Complex, Residential Land	Hectar	35	35
Village People & Residential Households	nos	3100	3100
College	nos	4	4
High School	nos	17	17
Government Primary School	nos	40	40
Kinder Garten/Primary School	nos	18	18
Hat-Bazar, Shop etc.	nos	16	16
Fisheries/Poultry/agro farm	nos	35	35
Telephone Exchange/Mobile Tower	nos	4	4
Roads	Km.	40	40
Kancha Road	Km.	75	75
Drain	nos	3.5	3.5
Government Storage	nos	5	5
Union Office	nos	7	7
Land Office	nos	7	7
Upazilla Health Center	nos	1	1
Union Health Center	nos	4	4
Vocational School & College	nos	6	6
NGO Primary School	nos	8	8
NGO Office	nos	4	4
Clinic	nos	10	10
Mosque	nos	17	17
Madrassa	nos	6	6
Temple	nos	5	5
Agricultural Land	nos	400	400
Tree	Hectar	12500	12500
Wooden Mill	nos	15	15
Brick field	nos	12	12
Rice Mill	nos	15	15
Bridge	nos	7	7
Regulator	nos	3	3
Culvert	nos	15	15

(Handwritten mark)

27. Cost/Benefit:

Item	Estimated	Actual
(1) Benefit cost ratio of the project:		It will be evaluated later by concern directorate of BWDB & IMED.
(i) Financial	2.37:1.00	
(ii) Economic	2.78:1.00	
(2) Internal Rate of Return:		
(i) Financial	29.47%	
(ii) Economic	34.00%	

28. Please give reasons for shortfall, if any, between the estimated and actual benefit: **No Shortfall.****F. MONITORING AND AUDITING**

29. Monitoring:

Name & Designation of the inspecting official	Date	Identified Problems	Recommendations
1	2	3	4
(a) Ministry / Agency :			
Muhammad Amirul Haq Bhuiya Director General (DG), BWDB.	02/06/2024	No major Problem identified.	1. Quality of materials should be ensured according to Standard Schedule of Rates Manual, Volume-I (Item Description and Specification of Materials) of BWDB. 2. Physical works should be completed within stipulated time.
Jyoti Prosad Ghosh ADG (West), BWDB, Dhaka.	17/02/2022 to 23/02/2022	No major Problem identified.	1. All the work should be completed within the project period.
<u>Ministry / Agency:</u> Mid-Term Evaluation committee consisting of 12 (Twelve) members, 1. Dipanwita Saha Joint Secretary Ministry of Water Resources 2. Mohd. Enamul Haque Joint Chief (Irrigation Wing) Implementation Monitoring and Evaluation Division, Planning Commission. 3. Mohammad Lutfur Rahman PAA	05/05/2023	No major Problem identified.	1. After confirming the laboratory test, the concrete should be poured with quality stone, sand and cement as per the design and specification. 2. The quality test of concrete block has been done at Zonal Laboratory of Bangladesh Water Development Board. The quality of concrete blocks needs to be tested at BWDB Zonal Laboratory as well as Ruet and

Name & Designation of the inspecting official	Date	Identified Problems	Recommendations
1	2	3	4
<p>4. Joint Secretary Ministry of Water Resources Abdullah Al Arif Deputy Secretary Ministry of Water Resources</p> <p>5. Md. Samsul Islam Deputy Chief (Irrigation Wing) Planning Commission.</p>			<p>Buet laboratories.</p> <p>3. Ghats should be constructed with blocks for the convenience of going up and down the river.</p> <p>4. Rehabilitation of embankment work should be implemented as per the design.</p>
<p>6. Mohammad Saifur Rahman Deputy Director</p>			<p>5. Use of Ordinary Portland Cement (OPC) must be confirmed.</p>
<p>7. IMED, Ministry of Planning, Mohammed Mobassherul Islam Deputy Secretary Ministry of Water Resources</p> <p>8. Mohammad Abdur Rahim Ripon Deputy Secretary Ministry of Water Resources.</p> <p>9. Md. Ahsan Habib Superintending Engineer Rangpur WD Circle-1 & Project Director, BWDB, Rangpur.</p> <p>10. Habibul Hasan Rumi Senior Asst. Secretary (Irrigation Wing), Planning Commission.</p> <p>11. Md. Hafizul Haque Executive Engineer Gaibandha WD Division BWDB, Gaibandha.</p> <p>12. Palash Kumar Banerjee Executive Engineer Office of the Chief Planning BWDB, Dhaka.</p>			<p>6. Use of Geo textile Lap length should be ensured as per specification.</p> <p>7. The stones present at the site consist of large size stones and singles. Which has to be removed and casted.</p> <p>8. Platforms should be properly constructed and casted at all sites.</p> <p>9. In case of concrete casting, the brand of cement being used is BUET or RUET to tested in its staffatory.</p> <p>10. The slope of the embankment should be properly followed as per the design of embankment.</p> <p>11. In order to carry out the remaining work, it is necessary to receive the time bound work plan from the contractor and conduct the monitoring activities accordingly.</p> <p>12. It is desirable to have standard site office at project area.</p> <p>13. The project Director strictly implements the work following the design and specification will confirm.</p> <p>14. Tender process of 6 packages should be completed</p>

Name & Designation of the inspecting official	Date	Identified Problems	Recommendations
1	2	3	4
			quickly and work orders issued. 15. Related BWDB officials and the project Director should be more active in supervising the work.
			1. To complete the work on time concrete mixer machine must be increase. 2. The work should be implemented as per design and specifications. 3. In order to complete the project on time, necessary supply of goods to the site should be ensured.
Md. Mahbubar Rahman Chief Engineer Northern Zone, BWDB, Rangpur	Several times	No major Problem identified.	1. In order to complete the project on time, necessary supply of goods to the site should be ensured. 2. To complete the project on time concrete mixer machine should be increased. 3. The progress of this project should be accelerated ensuring proper quality and site monitoring have to be increased.
Md. Ahsan Habib PD & Superintending Engineer Rangpur WD Circle-01 BWDB, Rangpur	Several times	No major Problem identified.	1. Gaps between the pitching block to be filled with C.C according to the design and specification. 2. Running packages need to be completed as per Design and Specification as soon as possible. 3. The KM. post needs to be constructed as per design.
Umme Mahfuza Haque Superintending Engineer Design Circle-06 BWDB, Dhaka.	26/06/2024 to 27/06/2024	No major Problem identified.	
(b) IMED :			
Mohammad Saifur Rahman DD, IMED.	11/05/2023 to 13/05/2023	No major Problem identified.	1. In order to complete the project, regular supervision should be ensured by forming a committee consisting of

Name & Designation of the inspecting official	Date	Identified Problems	Recommendations
1	2	3	4
			representatives of the BWDB, Procuring Entity and Contractor. 2. Implementation progress should be accelerated with a view to completing project activities on time while maintaining quality standards.
(c) Others (Please specify):			
Deputy Commissioner, Gaibandha.	Several Times	No major Problem identified.	All the work should be done as per stipulated time.

30. Auditing during and after Implementation:

30.1 Internal Audit: **Not Conducted.**

Period of Audit	Date of submission of Audit Report	Sl. No.	Major findings/objections and Money involved	Whether objections resolved or not (if not, mention status)
1	2	3	4	5
-	-	-	-	-
Total findings/objections and Money involved=		-	-	-

30.2 External Audit:

Period of Audit	Date of submission of Audit Report	Sl. No.	Major findings/objections and Money involved	Whether objections resolved or not (if not, mention status)
1	2	3	4	5
2020-21	11-11-2021		-	No Audit Objection.
2021-22	21-11-2022	1	Title: Irregular expenditure of TK. 94, 74,106 on bill payment of Excavated Soil without Pre Work and Post Work Measurement Report by Task Force and IWM.	Answer is submitted through Competent Authority and resolve of the objection is under process.
		2	Title: Revenue loss of TK. 78, 22,285 on account of VAT on premium due to non-insurance which is breach of contract.	
2022-23	05-10-2023	1	Title: The financial loss of TK. 57, 70,331 due to non-payment of delay penalty from the contractor who fails to	Answer is submitted through Competent Authority and resolve

			perform the work in the stipulated time.	of the objection is under process.
		2	Title: The financial loss of TK. 8, 32,522 due to payment of labor wages considering the distance of 200 meters outside for installation and dumping of CC blocks.	
2023-24	Yet to be conducted.			
Total findings/objections and Money involved=		4		

G. POST-PROJECT REMARKS

31. General Observations/Remarks on the Project

31.1 Background

Bangladesh is a riverine country with an area of about 1, 47,570 square kilometers. The total area of the country is about 9,734 sq.km. Almost half of the landscape is occupied by the Ganga, Brahmaputra-Jamuna, and the largest rivers that flood the lowest point and have a height of 10 meters. On the other hand, 80 percent of the country's total land is floodplain, which is flooded during monsoons. In terms of climate, the climate of Bangladesh is characterized by humidity, temperate and opposite winds in winter and summer, which are distinct seasonal variations. Due to this strange behavior of nature, floods occur almost every year during the monsoon season and most of the land in the country is inundated as well as the banks of the rivers are prone to collapse. As a result, huge amount of wealth is threatened.

River channel change is a special feature of the Bengal basin. As a result, parts of the river and the entire course of the river may change from time to time. Due to this change in the course of the river, most of the water of the old Brahmaputra River is flowing through the Jamuna. Along with its large flow volume, the river Jamuna also carries a large amount of silt. The Jamuna/Brahmaputra River carries about 12 lakh tonnes of sediment daily during the monsoon season and the annual sediment carrying capacity of the Jamuna measured at Bahadurabad is about 735 million tonnes. Due to continuous decline in the water flow of the Jamuna/Brahmaputra River and carrying large amount of silt, numerous floodplains are formed across the river chest.

The Jamuna/Brahmaputra River has been gradually moving westward since its right bank broke. As a result, the cropland, villages, roads, public and private buildings of the vast area on the right bank of the Jamuna are lost every year in the womb of the Jamuna. In continuation of this, in the floods of 2015, 2016, 2017 and 2018, there was a huge breach of 2600 meters from BRE km 52.450 to km 55.050 in Goghat and Khanabari area under Sundarganj upazila under Kamarjani union under Sadar upazila of Gaibandha district. Due to the rapid erosion of the river, many houses including schools, colleges, madrasas, and huge amount of cultivated land along with unpaved roads have been lost in the Yamuna and the destruction



continues. An ADP-based project titled "Protection of Phulchari Head Quarters and Kamarjani Bazar from Erosion of Jamuna River" was implemented in FY 2009-10. Contrary to the mentioned project, temporary 1034 meter river bank conservation work has been implemented in Kamarjani Bazar. As a result of the implementation of the project, Gaibandha Sadar Upazila's Kamarjani Bazar, Baguria, Syedpur, Kanchipara, and adjacent areas have been saved from the Jamuna River's erosion. At present, due to strong currents and eddies, the river banks are gradually eroding, as a result of which Goghat Mauza government primary school, housing, agricultural land along with Kamarjani market and existing bank reclamation works have been damaged upstream. The people in the riverside areas are panicked and some houses including government primary school, community clinic in Goghat Mauza have collapsed and people are evacuating their houses and the extent of the damage is severe and regular damage continues. On 01/07/2017, the undersigned, Deputy Commissioner and Superintending Engineer, Rangpur WD Circle-1 along with visited the damaged places on site. Local dignitaries, district administration along with Hon'ble Member of Parliament of Gaibandha Sadar Constituency and Hon'ble Ex. Whip of Parliament Mr. Mahabub Ara Begum Gini visited the site earlier and requested the department to take measures to prevent the destruction on an urgent basis. During the current 2018 flood, the field level engineers and Superintending Engineer, Rangpur WD Circle-1 and Chief Engineer, Northern Region observed the extent of the damage during site visits several times in the past months. Efforts are being made to prevent breakage by dumping Geo-bags on an emergency basis at various times. But since it is much less than required, it is not possible to prevent breakage.

Moreover, on last 09-10-2014 Hon'ble Minister of Water Resources Ministry, State Minister, Secretary, Hon'ble Deputy Speaker of Parliament, Hon'ble Director General of BWDB, Additional Director General (Western Region), Chief Engineer, Northern Region, BWDB, Rangpur and other related officials. The breakdown of Sadar Upazila area was inspected on the ground. During the visit, high officials instructed to take necessary measures to protect the Brahmaputra Right Embankment (BRE) and important township from being swallowed by the Jamuna.

Local Honorable Parliament Member, Ex. Whip of Parliament Mr. Mahabub Ara Gini, (30-Gaibandha-2) and Barrister Shamim Haider Patwari, (29-Gaibandha-1) has also visited the said erosion prone areas for several time and submitted a D.O letter for taking necessary protective measure against river erosion. In that situation, on the demand of people from all sections of Sadar and Sundarganj Upazila of Gaibandha District this Development Project Proposal (DPP) has been prepared on priority consideration of immediate implementation to protect the Sadar and Sundarganj Upazila and Brahmaputra Right Embankment (BRE) from the severe erosion of Jamuna River.



31.2 Justification/Adequacy

Bangladesh is a riverine country and bank line erosion of different rivers has been a recurrent effect. River bank erosion in alluvial lands of Bangladesh is a complex and dynamic thrust of nature due to strong onrush of water and major variation in between normal water flow and surges of inflow during monsoon & post-monsoon period in each year. The monsoon discharge of the major rivers is so large that there is recurrence of floods every year. Sometimes it becomes very severe and causes immense damages impacted by occurrence of devastating river erosion. This has significant social and economic impacts. The loss of land, crop and property has led to landlessness and impoverishment of thousands of dwellers living within bank-lines.

The large seasonal variation in river flow results in varying sediment transportation capacity and causes river-bank erosion, migration of river-banks and meandering river channels. In this context, there have been a growing concern and reassessment of the economic and socio-political benefits of protecting important towns, infrastructure, hats and bazars as well as agricultural land and existing Brahmaputra Right Embankment. The issue has been given due importance in the national planned documents for water sector and prioritized strategic locations of river banks have been stressed for phased implementation of river bank protection program at the apex level.

The overall objective of the project is to reduce environmental degradations and human hazards due to river erosion with ensuring safety of lives and properties around the area. Throughout the erection of proposed bank revetment works and re-sectioning of embankment, safety of vast tract of agricultural lands and other immovable properties total worth of Tk. 286485.00 lakh will be ensured against river erosion.

31.3 Objectives

- Protection of BRE Right Embankment, Sorai 6-vent Regulator and adjacent different infrastructure from right bank erosion of mighty river Jamuna by implementation of Bank Revetment work 1124 meter at Goghat, Kamarjani Union of Gaibandha Sadar Upazila, 2068.55 meter at Shreepur, 932.36 meter at Kapasia, 1276.54 meter at Lalchamar and 1309.25 meter at Horipur of Sundarganj Upazila, total 6710.70 meter and 13.050 Km. Embankment re-Sectioning work in Gaibandha District.
- Protect valuable immovable properties of worth value Tk. 286485.00 lakh (Appendix-A) from right bank erosion of mighty river Jamuna by implementation of 6710.70 meter bank revetment work and 13.050 km embankment re-sectioning work.
- Agricultural Development, Social and Natural security and poverty reduction.



31.4 Project revision with reasons

The DPP was formed on October, 2018 based on the Trend of River Bank erosion at at kamarjani at Upazila Gaibandha Sadar, Shreepur, Kapasia, Lalchamar, Horipur and Konchibari-choyghoriya at Sundarganj Upazila. This is a very important project from people's point of view. This project was approved by ECNEC on 21-07-2020. The Administrative Order (AO) from Ministry of Water Resources was issued on 06-10-2020. The project duration was from 1 July, 2020 to 30 June, 2022 and the project cost was Taka 40179.43 Lakh. The project was taken to protect Brahmaputra Right Bank and Flood Control Embankment from engulfment of Jamuna River. After approval of the project, the Project Director was appointed on 18-08-2020.

Jamuna is a braided river and its morphological behavior is very much uncertain. After every flood of monsoon, it changes its courses. A Steering committee meeting (2nd) was held on 13/09/2021 which was Presided by Mr. Kabir Bin Anwar, Senior Secretary, MoWR. A decision was made in the meeting that "A technical committee will be formed to revise the DPP incorporating with strengthening BWDB Flood Control Embankment & River Bank erosion and it has to be done with highest priority". The Technical Committee, headed by Superintending Engineer, Design Circle-06, BWDB which was formed earlier by BWDB Board Secretariat vide its Memo. No. 42.01.0000.032.06.006.21-190 dated: 26-12-2021 consisting total 6(Six) no's member including 2(Two) Outside Member for the revision of this project was assigned to furnish a report incorporating recommendation made by Mr. Kabir Bin Anwar, Senior Secretary, MoWR.

The Technical Committee considering the local socio-economic and environmental conditions, financial and economic analysis and technical condition in the project area, recommended the following:

- It is recommended that the implementation of the choyghoriya package-01/2020-21 included in the original DDP of the project will not be required.
- Haripur-01/2021-2022 package included in the project excluding the upstream end termination, from BRE Km 39.730 to BRE Km 40.450, river bank protection work can be implemented continuously in 720 m, including 75.00 m river bank protection work. Haripur-01/2021-2022 can be implemented by saving money of the package.
- In the Kapasia area of Sundarganj upazila included in the project, river bank protection work can be implemented continuously in 400.00 meter from BRE km 47.300 to BRE km 47.700 downstream of the Kapasia-02/2020-2021 package. An end termination will be required to be constructed in the working furnace.
- In the Sreepur area of Sundarganj Upazila included in the project, upstream of the Kamarjani-02/2020-2021 package, under the Kamarjani-01/2020-2021 package, without construction of

end termination, from BRE Km 51.910 to BRE Km 52.450 in a continuous 540.00 m section of the river bank Protection work can be implemented, including 150.00 meters of river bank protection work can be implemented with the money saved in the Kamarjani-01/2020-2021 package. An end termination will be required to be constructed upstream of the said 540m work.

- A total of 4.706 km of embankment rehabilitation work between km 54.060 to km 57.500 of Brahmaputra Right bank flood control embankment is recommended to be implemented.
- Based on Approved bank protection Design No. GAI-PRO-4100 (Sheet: 1 of 6 to 6 of 6) Date: 07/03/2022, GAI-PRO-4101 (Sheet: 1 of 5 to 5 of 5 Date: 07/03 /2022 and keeping 4.706 km of embankment rehabilitation work as per approved design the 1st Revised DPP can be reconstructed as per schedule of rates of Rangpur O&M Circle-1 for the financial year 2019-20.

A DPEC meeting for 1st revision of DPP was held on 13-03-2023 in the Ministry of Water Resources. The honourable Senior Secretary, MoWR presided the DPEC meeting. The 1st Revised DPP was prepared according to recommendation of that PEC meeting.

32. Rationale of the project (Consider the following issues):

32.1 Concept

Bangladesh is a densely populated with poor natural resources base, lack of industrialization and vulnerability to 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 erosion damages and losses to productive agricultural and urban land and severe damage to property and infrastructure), recurrent floods, unemployment, illiteracy and malnutrition. Socio-economic development of the people through agriculture and business generation development providing flood control support and protection of potential lands, infrastructures of towns 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 its bank protective works do not create irreversible and diverse adverse physical and social impacts. Identifiable adverse impacts were confined to the implementation period. As such, the intervention by providing river bank protective work has very little impacts or no negative impacts in and around the area. The project would prevent the erosion and loss of about 400 ha of Agriculture land. It would also prevent severe flood damage to crops, property and infrastructure as a result of breaching caused by river bank erosion of the project site.

32.2 Design

The Present construction work components have been incorporated in the DPP in accordance with approved design & drawing by Design Circle-6 of BWDB at DPP preparation time and on working time, all design of the works reviewed by Design Circle-6 of BWDB on the basis of latest river morphology, location and time.

32.3 Location and

Jamuna River is one of the major rivers of Gaibandha district. Due to the morphological changes of the rivers, the flow path was changing at different places. The river banks were facing erosion due to the combined effects of strong currents, strong water flow from upstream, sediment load, and strong waves. As a result, roads, agricultural land, houses, markets, educational institutions, godowns, places of worship, public and private establishments, etc. were being disappeared. To prevent continuous erosion in various parts of the Jamuna River at Upazila Sadar and Sundarganj in Gaibandha District this project was taken.

32.4 Timing.

The project entitled " Protection of Goghat and adjacent area including Khanabari from the right bank erosion of the Jamuna River at Gaibandha Sadar & Sundarganj Upazila in Gaibandha District (1st Revised)." was approved in the meeting of the Executive Committee of the National Economic Council (ECNEC) held on 21 July, 2020. Initially the implementation period was from July 2020 to June 2022. Also due to scarcity of fund, Outbreak of World Pandemic Covid-19 and severe flood in 2022 & 2023 the project implementation time was increased by 24 (Twelve) month and the new implementation period was from July 2020 to June 2024.

33. Brief description on planning and financing of the project and its applicability (Consider the following issues):

33.1 Project Identification

- The project area is located at the North part of Gaibandha district across the right bank of Jamuna River to protect Kamarjani of Sadar Upazila, Shreepur, Kapasia, Lalchamar and Horipur of sundarganj Upazila. Main components of this project are to construct 6.711 Km. bank revetment work, 13.050 Km. re-sectioning of Embankment work.

33.2 Project Preparation

- Local Honorable Parliament Member, Ex. Whip of Parliament Mr. Mahabub Ara Gini, (30-Gaibandha-2) and Barrister Shamim Haider Patwari, (29-Gaibandha-1) has also visited the said erosion prone areas for several time and submitted a D.O letter for taking necessary protective measure for river erosion. The Government commitment committee has instructed to submit a DPP to protect the area of kamarjani of kamarjani union from the erosion of the Jamuna vide memo. No.11.00.0000.075.99.04.17-18 dt. 12.02.2017 and Shreepur, kapasia, Chandipur, Horipur, Konchibari unions from the erosion of the Jamuna vide memo. no.29GAI1/000220/03/19 dt. 18.02.2019. Thus the Development Project Proposal (DPP) has been prepared on priority



consideration of immediate implementation to protect the Sadar & Sundarganj Upazila and Brahmaputra Right Embankment (BRE) from the severe erosion of Jamuna River.

33.3 Appraisal

- The PEC meeting was held on 26-11-2019 at Planning Commission. As per decision of PEC meeting the DPP was corrected and sent to the ECNEC for approval the above project.

33.4 Credit Negotiation: Not Applicable.

33.5 Credit Agreement: Not Applicable.

33.6 Credit Effectiveness: Not Applicable.

33.7 Loan Disbursement: Not Applicable.

33.8 Loan Conditionality: Not Applicable.

~~33.9 Project Approval and~~

- The Project was approved by ECNEC on 21-07-2020 and 1st Revised DPP was approved by MoWR on 12-04-2023.

33.10 Others (specify): Nill.

34. Analysis of the post- implementation situation and result of the project (Consider following issues):

34.1 Whether the beneficiaries of the project have clear knowledge about the Target/Objectives of the project.

- Yes.

34.2 Programme for use of created-facilities of the project

- The stake holders are directly taking advantages of the created facilities of the project.

34.3 O & M Program of the project.

- After completion of the project major repair/rehabilitation works will be accomplished from regular O&M budget of BWDB.


34.4 Impact of the project (Direct & Indirect)

34.4.1 Direct

- Protection of existing Brahmaputra Right Bank Flood Control Embankment (BRE), vast agricultural lands and other public and private properties valued approximately Tk. 286485.00 lakh under kamarjani, shreepur, kapasia, lalchamar, horipur and adjacent area of Sadar and sundarganj Upazila in the District of Gaibandha from the erosion of right bank of Jamuna River have been ensured by execution of 6.711 Km. revetment works along the vulnerable river bank.
- Sundarganj and Sadar Upazila in the District of Gaibandha have been protected from the devastating flood of Jamuna River by execution of 13.050 Km. re-sectioning of Embankment along the vulnerable river bank.

34.4.2. Indirect

- Socio-economic condition has improved in the project area.
- Environmental adverse impact has been mitigated and ecological balance has been established.

- 34.5 Transfer of Technology and Institutional Building through the project.
➤ Not Applicable.
- 34.6 Employment generation through the project.
➤ A large number of skilled/unskilled workers were employed during construction period.
- 34.7 Possibility of Self-employment.
➤ There are possibilities of self-employment as existing commercial, industrial and business centers are protected from river bank erosion and the environmental degradation.
- 34.8 Possibility of Women-employment opportunity.
➤ Yes, there are possibilities of women-employment through the project benefited area enhanced.
- 34.9 Women's participation in development.
➤ Yes.
- 34.10 Probable Impact on Socio-Economic activity.
➤ By protecting the river bank erosion, various infrastructures are saved from the erosion. As a result socio-economic balance in the locality is enhanced.
- 34.11 Impact on environment.
➤ Environmental enhancement is achieved through the implementation of the project.
- 34.12 Sustainability of the project.
➤ The project is sustained but requires periodic maintenance.
- 34.13 Contribution to poverty alleviation/reduction.
➤ The project has direct contribution and impact on poverty alleviation/reduction.
- 34.14 Opinion of the public representatives, local elite, local administration, teachers, religious leaders, women's representatives etc.
➤ Positive remarks regarding the project.
- 34.15 Contribution of Micro-credit programs and Comments on overlapping with any NGO activities.
➤ Not Applicable.
35. Problems encountered during Implementation (with duration & steps taken to resolve those) (Consider following issues):
- 35.1 Project management: N/A.
- 35.2 Project Director: N/A.
- 35.3 Land Acquisition: N/A.
- 35.4 Procurement: N/A.
- 35.5 Consultancy: N/A.
- 35.6 Contractor: N/A.
- 35.7 Manpower: N/A.
- 35.8 Law & Order: N/A.
- 

35.9 Natural calamity: N/A.

- Due to severe flood in 2021, Brahmaputra Right Bank Flood Control Embankment was breached in several locations and inundated almost 70% area of the Gaibandha district including Gaibandha municipality area. Gaibandha Town was submerged in water for almost one week. Following the 2021 flood a severe flood also occur in 2022 too. After that two devastated flood in a row Steering committee guided to form a technical committee. The technical committee changed and modified the length and alignment of the protective work and embankment re-sectioning works. According to technical committee report the DPP was reformed and got approval from MoWR. Then the work was implemented successfully in time and within the RDPP cost.

35.10 Project financing: N/A.

35.11 Allocation and release: N/A.

35.12 Design formulation/approval: N/A.

35.13 Project aid disbursement and re-imburement: N/A.

35.14 Mission of the development partners: N/A.

35.15 Time & Cost Over-run: N/A.

35.16 Project Monitoring: N/A.

35.17 Delay in Decision: N/A.

35.18 Transport, Training: N/A.

35.19 Approval and Others: N/A.

36. Remarks & Recommendations of the Project Director:

The main objective of the project is to protect existing Brahmaputra Right Bank Flood Control Embankment (BRE), vast arable lands and other public and private properties valued approximately Tk. 286485.00 lakh under kamarjani, shreepur, kapasia, lalchamar, horipur and adjacent area of Sadar and sundarganj Upazila in the District of Gaibandha from the erosion of right bank of Jamuna River by execution of 6.711 Km. river bank protective works, 13.050 Km. re-sectioning of Embankment along the vulnerable river bank of Jamuna River. Due to implementation of the project, physical safety and sense of security among the people of the project area 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 components will enhance the 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 especially for rural poor section, creation of social & environmental balance & building of economic infrastructures for the future generation to sustain due to river erosion mitigation.



The commencement and completion of the project was schedule to be accomplished in the FY 2020-2021 to 2023-2024 as per approved DPP (1st Revised) and accordingly implementation completion has been achieved.

The Project is specifically linked with SDGs (Goal 1, 5,6,13 and 17). The Ministry of Water Resources has been engaged in all programs relating to water sector development and management. It will continue to deal with flood erosion protection. There are other Bangladesh Development Goals which have to be achieved through Poverty Reduction Strategy. So, Water Sector has a vision for development and management of Water Resources over medium and long term. The vision for water resources sector has been indicated in the declaration of the National Water Policy document of GOB (1999). Vision, incorporated in the document is as follows:

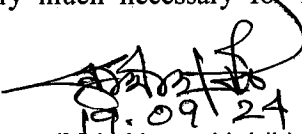
“Ensuring continued progress towards fulfilling the national and MDG goals of development through acquisition of water resources, optimizing its various use, managing resources for poverty reduction and sustainable development for securing their lives and properties from water related disasters”.

As water is a cross cutting resource, its use is broad-based. Water is a resource on the one hand and a mainstay of livelihoods on the other. So, the goal is not confined within the water sector alone, it extends deep into the livelihoods functions of water (e.g. agriculture, fisheries, health, land reclamation, environment etc. including disasters and climate change). All of these have direct or indirect implications for poverty reduction.

Incompliance of the above, DPP (1st Revised) of the project costing Tk. 40175.96 Lakh was approved on 12-04-2023 for implementation of 6.711 Km. bank protective work, 13.050 Km. Re-sectioning of Embankment along the vulnerable river bank of Jamuna River in kamarjani of Sadar Upazila and Shreepur, Kapasia, Lalchamar, Horipur of Sundarganj Upazila in the District of Gaibandha during FY 2020-2021 to FY 2023-2024 and the same has been achieved accordingly.

It may be mention here that, there is a gap 8.624 km (approximate) between the Protective works of Horipur, Lalchamar, Kapasia and Kamarjani-Sreepur under this Project. This area of river bank is highly Vulnerable to river erosion. River bank protection work along this 8.624 km bank line after the downstream end of Horipur and Kapasia of this project is very much necessary for long term sustainable of this project.

Date.....

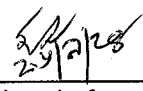

19.09.24
(Md. Ahsan Habib)

Superintending Engineer
Rangpur WD Circle-1,
BWDB, Rangpur
&
Project Director

37. Remarks/Comments of Agency Head:

The key objective of the project was to protect the existing Brahmaputra Right Embankment (BRE), arable lands, and other public and private properties under Kamarjani, Shreepur, Kapasia, Lalchamar, Horipur, and adjacent areas of Sadar and Sundarganj Upazila in the District of Gaibandha from the erosion of Jamuna River. Implementing river bank protection works, and embankment rehabilitation along the river in these areas, safety and security among the people have been developed, resulting in the enhancement of the socio-economic conditions of the stakeholders. Thus, this project can be regarded as a successful one.

Date.....24-07-28.....


Signature and seal of Agency Head
(Muhammad Amirul Haq Bhuiya)
ID No. 660118001
Director General
BWDB, Dhaka.

38. Remarks/Comments of the Secretary/Senior Secretary of the Ministry/Division:

The project has been completed successfully. Regular maintenance and monitoring should be ensured by Bangladesh Water Development Board for the sustainability of the project.

Date.....

Signature and seal of Secretary

Information Related to Procurement of Goods:

As per Project Document Package No	Description of Pack age	Estimated Cost. (Taka in Lac)	Procurement Method	Approving Authority	Date of Tender Invitation	Name of Newspaper	Date of Opening	Date of Approval	Date of NOA	Contract Price & Date	Actual Payme nt	Date of Completion	
												As per Contract	Actual
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Sompod- 02/2020- 21	Engineering Equipment Leveling Instrument with accessories -2 sets.	2.00	RFQ	PD	06/06/2021	-	09/06/20 21	17/06/2021	20/06/20 21	2.00 23/06/202 1	2.00	30/06/2021	30/06/2021
		2.00		EE	06/06/2021								
		0.00		0									
Sompod- 04	Furniture and fixtures: Office furniture.	1.00	RFQ	PD	06/06/2021	-	09/06/20 21	17/06/2021	20/06/20 21	1.00 23/06/202 1	1.00	30/06/2021	30/06/2021
		1.00		EE	01/05/2021								
		0.00		0									
Sompod- 01/2020- 21	Procurement of Motor Cycle(125 cc)-2 nos.	3.00	RFQ	PD	06/06/2021	-	18/06/20 22	24/06/2022	26/06/20 22	3.00 28/06/202 2	3.00	30/06/2022	30/06/2022
		3.00		SE	13/06/2022								
		0.00		372									
Sompod- 03/2020- 21	Office Equipment: (Photocopy, Multimedial)	2.50	RFQ	SE	06/06/2021	-	19/06/20 22	22/06/2022	23/06/20 22	2.50 26/06/202 2	2.49	30/06/2022	30/06/2022
		2.49		SE	16/06/2022								
		0.01		375									
Sompod- 04/2020- 21	Furniture and fixtures: Office furniture.	5.00	RFQ	CE	06/06/2021	-	15/06/20 22	21/06/2022	22/06/20 22	4.99 23/06/202 2	4.99	29/06/2022	29/06/2022
		5.00		CE	12/06/2022								
		0.00		371									

* Please mention Dates for plan and actual

* Deviation in days (difference between plan and actual)

* Plan as per procurement plan described in project document

Annexure-1(b)

Information Related to Procurement of Works:

As per Project Document Package No	Description of Package	Estimate Cost (Taka in Lac)	Procurement Method	Approving Authority	Date of Tender Invitation	Name of Newspaper	Date of Opening	Date of Approval	Date of NOA	Contract Price & Date	Actual Payment	Date of Completion	
												As per Contract	Actual
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Karnajani-01/2021-2022	Bank protection work from Km. 52.300 to Km.52.450 = 150.00m	933.76	OTM	SE	27/10/2020	Amader Somoy, Dhaka Tribune, Danik Ghaghat.	26/11/2020	26/12/2020	27/12/2020	933.76	930.99	26/05/2022	31/12/2023
		52.300 to 0.00		SE	27/10/2020		0.00	13/01/2021					
Karnajani-02/2021-2022	Bank protection work from Km. 52.450 to Km.52.650 =200.00m	1162.3	OTM	CE	27/10/2020	Somoy, Dhaka Tribune, Danik Ghaghat.	26/11/2020	26/12/2020	27/12/2020	1162.38	1133.48	26/05/2022	15/05/2024
		52.450 to 0.00		CE	27/10/2020		0.00	03/01/2021					
Karnajani-03/2020-2021	Bank protection work from Km. 52.650 to Km.53.050 =400.00m	2318.7	OTM	DG	27/10/2020	Somoy, Dhaka Tribune, Danik Ghaghat.	26/11/2020	21/12/2020	21/12/2020	2318.76	2317.45	20/05/2022	12/11/2023
		52.650 to 0.00		DG	27/10/2020		0.00	03/01/2021					
Karnajani-04/2020-2021	Bank protection work from Km. 53.050 to Km.53.450 =400.00m	2328.8	OTM	DG	27/10/2020	Somoy, Dhaka Tribune, Danik Ghaghat.	26/11/2020	21/12/2020	21/12/2020	2328.89	2323.23	24/05/2022	30/06/2023
		53.050 to 0.00		DG	27/10/2020		0.00	10/01/2021					
Karnajani-05/2020-2021	Bank protection work from Km. 53.450 to Km.53.926 =476.00m	2693.9	OTM	DG	27/10/2020	Somoy, Dhaka Tribune, Danik Ghaghat.	26/11/2020	21/12/2020	21/12/2020	2693.90	2681.41	26/06/2022	30/06/2023
		53.450 to 0.00		DG	27/10/2020		0.00	28/12/2020					
Karnajani-06/2020-2021	Bank protection work from Km. 53.926 to Km.54.170 =244.00m	1444.3	OTM	CE	27/10/2020	Somoy, Dhaka Tribune, Danik Ghaghat.	26/11/2020	20/12/2020	21/12/2020	1444.38	1442.67	26/06/2022	25/02/2024
		53.926 to 0.00		CE	27/10/2020		0.00	29/12/2020					
Karnajani-07/2020-2021	Bank protection work from Km. 54.170 to Km.54.610 =440.00m	2580.6	OTM	DG	27/10/2020	Somoy, Dhaka Tribune, Danik Ghaghat.	26/11/2020	21/12/2020	21/12/2020	2580.66	2579.15	26/06/2022	28/12/2023
		54.170 to 0.00		DG	27/10/2020		0.00	03/01/2021					
Karnajani-08/2020-2021	Bank protection work from Km. 54.610 to Km.54.830 =220.00m	1286.0	OTM	CE	27/10/2020	Somoy, Dhaka Tribune, Danik Ghaghat.	26/11/2020	26/12/2020	27/12/2020	1286.05	1285.34	24/05/2022	30/06/2023
		54.610 to 0.00		CE	27/10/2020		0.00	13/01/2021					
Karnajani-09/2020-	Bank protection work from Km.	1296.3	OTM	CE	27/10/2020	Somoy, Dhaka Tribune, Danik	26/11/2020	26/12/2020	27/12/2020	1296.331	1293.08	24/05/2022	28/06/2023

Information Related to Procurement of Services:

As per Project Document Package No	Description of Package	Estimated Cost. (Taka in Lac)	Procurement Method	Approving Authority	Date of Tender Invitation	Name of Newspaper	Date of Opening	Date of Approval	Date of NOA	Contract Price & Date	Actual Payment	Date of Completion	
												As per Contract	Actual
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Jorip-01/2020-21	Survey and Investigation	3.00 3.00 0.00	RFQ	EE EE	06/06/2021 06/06/2021 0	-	09/06/2021	17/06/2021	20/06/2021	3.00 23/06/2021	3.00	30/06/2021	30/06/2021
Jorip-02/2021-22	Survey and Investigation	2.00 2.00 0.00	RFQ	EE EE	06/06/2021 06/06/2021 0	-	09/06/2021	17/06/2021	20/06/2021	2.00 23/06/2021	2.00	30/06/2021	30/06/2021
Jorip-03/2022-23	Survey and Investigation	2.00 1.99 0.01	RFQ	EE EE	06/03/2023 01/05/2024 422	-	08/05/2024	08/05/2024	08/05/2024	1.99 08/05/2024	1.99	31/05/2024	31/05/2024
Jorip-04/2022-23	Survey and Investigation	2.00 1.99 0.01	RFQ	EE EE	06/03/2023 01/05/2024 422	-	08/05/2024	13/05/2024	21/05/2024	1.99 26/05/2024	1.99	10/06/2024	10/06/2024

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* Deviation in days (difference between plan and actual)

* Plan as per procurement plan described in project document

