

BANGLADESH WATER DEVELOPMENT BOARD



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

Name of the Project: RIVER BANK PROTECTION WORK TO PROTECT CHARBARIA AREA FROM THE EROSION OF KIRTONKHOLA RIVER AT BARISAL SADAR UPAZILA IN BARISAL DISTRICT (1ST REVISED) (INTER ITEM COST ADJUSTMENT).

PROJECT PERIOD: JULY 2017 TO JUNE 2023.

DIVISION : BARISHAL O&M DIVISION, BWDB, BARISHAL.
CIRCLE : BARISHAL O&M CIRCLE, BWDB, BARISHAL.
ZONE : SOUTHERN ZONE, BWDB, BARISHAL.

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 : RIVER BANK PROTECTION WORK TO PROTECT CHARBARIA AREA FROM THE EROSION OF KIRTONKHOLA RIVER AT BARISAL SADAR UPAZILA IN BARISAL DISTRICT (1ST REVISED).
02. Administrative Ministry/Division : Ministry of Water Resources (MoWR).
03. Executing Agency : Bangladesh water Development Board (BWDB).
04. Location of the Project : Upazila – Barishal Sadar, District: Barishal.
05. Objective of the Project :
- To arrest erosion of the project area and will ensure safety of public and private properties.
 - To protect Barishal city Water treatment plant, 230KV PGCB Line, Beltala ferry ghat, Ship Yard, markets, primary/secondary school, homestead, cultivable land, road, and other private & public properties in the area from the Erosion of Kirtonkhola River.
 - The approximate value of the properties to be saved is Tk.106815.11 lakh.

06. Estimated Cost :

(In lakh Taka)

	Original	Latest Revised (1 st)
(a) Total	33123.99	37098.62
(b) Taka	33123.99	37098.62
(c) Foreign Currency	-	-
(d) Project Aid	-	-
(e) RPA	-	-

07. Date of Approval :

PCP	PP
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- (a) Original : 02/11/2017
- (b) Latest Revised (1st) : 07/08/2019
- (c) No Cost Time Extension : 07/06/2021
- (d) Inter-item Cost Adjustment : 09/06/2022
- (e) No Cost Time Extension : 26/07/2022



08. Implementation Period :

	Date of Commencement	Date of Completion
(a) Original	July 2017	June, 2020
(b) Latest Revised (1 st)	July 2017	June, 2021
(c) No Cost Time Extension	July 2017	June, 2022
(d) Inter-item Cost Adjustment	July 2017	June, 2022
(e) No Cost Time Extension	July 2017	June, 2023
(d) Actual	July 2017	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

N/A

b) GOB :

(In lakh Taka)

Total amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
37098.62	-	37098.62	-

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

N/A

9.3 Re-imbursible Project Aid (RPA):

(In lakh Taka)

R P A Amount		Amount Spent	Amount Claimed	Amount Re-imbursed	Remarks
As per PP	As per Agreement				
1	2	3	4	5	6

N/A

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B. IMPLEMENTATION POSITION

01. Implementation Period :

Implementation Period as per PP		Actual Implementation period	Time Over-run (% of original implementation period)	Remarks
Original	Latest Revised			
1	2	3	4	5
July/2017 to June/2020	July/2017 to June/2023	July/2017 to June/2023	100%	Due to Covid-19 outbreak & associated financial constraints.

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	33123.99	37098.62	35024.38	(+) 5.74%	Since, additional length of protective works was included in RDPP, cost of project was increased.
TAKA	33123.99	37098.62	35024.38	(+) 5.74%	
PA	-	-	-	-	-

03. Project Personnel:

Sanctioned strength as per PP	Manpower employed during execution	Status of the existing manpower			Manpower Employed	
		Manpower requirement for O&M as per pp	Existing manpower for O & M	Others		
1	2	3	4	5	Male	Female
Officer (s)	The project was executed by the existing manpower of the implementing agency (Barishal O&M Division, BWDB, Barishal).					
Staff(s)						
Total :						

04. Training of Project Personnel (Foreign/Local):

Field of Training /Study tour/workshop/ Seminar etc.	Provision as per PP		Actual		Remarks
	Number of person	Man - months	Number of person	Man - months	
1	2	3	4	5	6
a. Foreign	N/A				
b. Local	N/A				

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

(In lakh Taka)

Items of work (as per PP)	Unit	Target (as per PP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical	Financial	Physical	
1	2	3	4	5	6	7
a. Revenue Component						
Supplies and Services						
Petrol, oil and lubricants	L.S	18.00	100%	16.183	89.91%	
Printing & Publication	L.S	4.00	100%	3.994	99.85%	
Stamps and seals	L.S	6.00	100%	5.774	96.23%	
Honorarium allowance	L.S	10.00	100%	7.340	73.40%	
Honorarium for Mid Term Evaluation	L.S	10.00	100%	9.095	90.95%	
Survey	L.S	13.00	100%	12.962	99.71%	
Repairs Maintenance: Motor Vehicles	L.S	15.00	100%	14.499	96.66%	
Office Building & Residential Building Repair	L.S	200.00	100%	199.293	99.65%	
Sub Total (a) :		276.00	100%	269.145	97.52%	
b. Capital Component						
Acquisition of Assets						
Motor vehicle Jeep(2500CC), 01(One) No	Nos	56.57	1	56.56	1 No.	
Motor vehicle Motor Cycle, 02(Two) Nos	Nos	3.00	2	3.00	2 Nos.	
Levelling Machine, 01(One) No	Nos	1.25	1	1.25	1 No.	
Eco-Sounder, 01(One) No	Nos	24.60	1	24.60	1 No.	
Computer (Priter, Scanner), 02(Two) Sets	Sets	1.60	2	1.60	2 Sets	
Office equipment Photocopier, 01(One) No	Nos	1.50	1	1.50	1 No.	
Sub Total (b1) :		88.52		88.51		
Construction Works						
River Bank Protection Work. Total Length= 5.687 Km	Km	30719.76	5.687 Km (100%)	30168.92	5.687 Km (99%)	Stock Pile blocks has not been manufactured.
End termination. Total Length=219.30m	m	1571.99	219.30 m (100%)	1198.92	219.30 m (100%)	
River Dredging Work.	Km	4362.35	5.600 Km (100%)	3298.88	5.600 Km (80%)	

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Items of work (as per PP)	Unit	Target (as per PP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical	Financial	Physical	
1	2	3	4	5	6	7
Total length=5.600 Km (24.24 Lac Cum)						
Sub Total (b2) :		36654.10		34666.72		
Sub Total b (b1+b2) :		36742.62		34755.23		
c. Physical Contingency		50.00		-	-	
d. Price Contingency		30.00		-	-	
Total (a+b+c+d)		37098.62	100%	35024.38	99.00%	

06. Information regarding Project Director (s) :

Name & Designation with pay Scale.	Full time	Part time	Responsible for more than one project	Date of		Remarks
				Joining	Transfer	
1	2	3	4	5	6	7
Md.Romjan Ali Pramanik Superintending Engineer, Barishal O&M Circle, BWDB, Barishal Grade-4 (50000 to 71200).	Full time	-	No	05.12.2017	10.03.2019	
Md. Shafi Uddin Superintending Engineer, Barishal O&M Circle, BWDB, Barishal Grade-4 (50000 to 71200).	Full time	-	Yes	10.03.2019	17.06.2021	
Majibur Rahman Superintending Engineer (A.C.) , Barishal O&M Circle, BWDB, Barishal Grade-4 (50000 to 71200).		Part time	Yes	17.06.2021	12.07.2021	
Md. Sabibur Rahman Superintending Engineer, Barishal O&M Circle, BWDB, Barishal Grade-4 (50000 to 71200).	Full time	-	Yes	13.07.2021	22.01.2023	
Mohammad Nasir Uddin Superintending Engineer, Barishal O&M Circle, BWDB, Barishal Grade-4 (50000 to 71200).	Full time	-	No	22.01.2023	Till Date	

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07. Procurement of Transport (in Nos.):

Type of transport	Number as per P.P.	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
Jeep	01 No.	30/06/2018	-	-	-	The vehicle Jeep Barishal Metro Gh-11-0010 was procured under this project, which is interchanged with Jeep Dhaka-Metro-Gha-13-9791 and transferred to Directorate of Public Relation, BWDB, Dhaka vide Directorate of Estate & Transport, BWDB, Dhaka Memo No-42.01.0000.025.26.08 8.14-919, Dated: 05-05-2022. Actually, the Jeep Barishal Metro Gh-11-0010 is now being used by Directorate of Public Relation, BWDB, Dhaka and Jeep Dhaka-Metro-Gha-13-9791 is being used by Superintending Engineer, Barishal O&M Circle, BWDB, Barishal.
Motor Cycle	02 Nos.	11/06/2018	-	Barishal O&M Division, BWDB, Barishal. 01/07/2022	-	Being used by Barishal O&M Division for future inspection & maintenance of the Project. (Barishal Metro Ha-12-4139 & Barishal Metro Ha-12-4140)

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/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
River Bank Protection Work from km 0.00 to km 3.666 = 3366.00m, End Termination Work (D/S) = 94.53m & Dredging of Kirtonkhola River from km 0.00 to km 5.600 = 5.600km to protect Charbaria Area from the Erosion of Kirtonkhola River at Barisal Sadar Upazila in Barisal District Under Barisal O&M Division, BWDB, Barisal during the year 2018-19 & 2019-20 (Package No. BSL-CB-DPM-01)	DPP - RDPP 209.63 IICA 193.92	190.96	03/09/2018	14/01/2019	25/06/2023	25/06/2023
River Bank Protection Work to protect Charbaria Area from the Erosion of Kirtonkhola River at Barisal Sadar Upazila in Barisal District from km 3.366 to km 3.750 = 384.00m Under Barisal O&M Division, BWDB, Barisal during the year 2018-19 & 2019-20. (Package No. BSL/2018-19/CB/WD-02)	DPP - RDPP 16.19 IICA 16.34	16.34	22/04/2019	26/08/2019	25/06/2022	25/06/2022
River Bank Protection Work to protect Charbaria Area from the Erosion of Kirtonkhola River at Barisal Sadar Upazila in Barisal District from km 3.840 to km 4.290 = 450.00m Under Barisal O&M Division, BWDB, Barisal during the year 2018-19 & 2019-20. (Package No. BSL/2018-19/CB/WD-03)	DPP - RDPP 20.65 IICA 20.73	20.73	22/04/2019	26/08/2019	25/06/2022	25/06/2022

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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/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
River Bank Protection Work to protect Charbaria Area from the Erosion of Kirtonkhola River at Barisal Sadar Upazila in Barisal District from km 4.290 to km 4.600 = 310.00m & End Termination Work (U/S) = 124.77m Under Barisal O&M Division, BWDB, Barisal during the year 2018-19 & 2019-20. (Package No. BSL/2018-19/CB/WD-04)	DPP - RDPP 23.11 IICA 23.47	23.47	22/04/2019	26/08/2019	25/06/2022	25/06/2022
River Bank Protection from km 0.00 to km 0.300=300m from erosion of the Kirtonkhola River for Charkawa Fazil Madrasha, Union Parishad, Bus stand, Bazar and adjacent area in Barishal Sadar Upazila under Barishal District under Barishal O&M Division, BWDB, Barishal during the year 2019-2020 & 2020-21 (Package No. BSL/2019-20/CC/WD-05)	DPP - RDPP 25.06 IICA 25.50	24.37	08/09/2019	17/12/2019	25/06/2022	25/06/2022
River Bank Protection from km 0.300 to km 0.600=300m from erosion of the Kirtonkhola River for Charkawa Fazil Madrasha, Union Parishad, Bus stand, Bazar and adjacent area in Barishal Sadar Upazila under Barishal District under Barishal O&M Division, BWDB, Barishal during the year 2019-2020 & 2020-21 (Package No. BSL/2019-20/CC/WD-06)	DPP - RDPP 25.06 IICA 26.12	25.22	12/11/2019	23/01/2020	25/06/2022	25/06/2022
River Bank Protection from km 0.600 to km 0.900=300m from erosion of the Kirtonkhola River for Charkawa Fazil Madrasha, Union Parishad, Bus stand, Bazar and adjacent area in Barishal	DPP - RDPP 25.06 IICA 26.27	25.07	12/11/2019	23/01/2020	25/06/2022	25/06/2022

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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/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Sadar Upazila under Barishal District under Barishal O&M Division, BWDB, Barishal during the year 2019-2020 & 2020-21. (Package No. BSL/2019-20/CC/WD-07)						
River Bank Protection from km 0.900 to km 1.177=277m from erosion of the Kirtonkhola River for Charkawa Fazil Madrasha, Union Parishad, Bus stand, Bazar and adjacent area in Barishal Sadar Upazila under Barishal District under Barishal O&M Division, BWDB, Barishal during the year 2019-2020 & 2020-21. (Package No. BSL/2019-20/CC/WD-08)	DPP - RDPP 23.14 IICA 23.57	22.37	08/09/2019	17/12/2019	25/06/2022	25/06/2022
Slope Protection of Peripheral Dyke & Relevant Work to Protect Dumping Yard of Dredged Material in connection with "River Bank Protection Work To Protect Charbaria Area From The Erosion Of Kirtonkhola River" At Barisal Sadar Upazila in Barisal District (1st Revised). (Package No. BSL/2021-22/CB/WD-11)	DPP - RDPP - IICA 10.62	9.85	06/09/2022	21/11/2022	30/06/2023	30/06/2023

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

Name of the Field	Approved man month		Actual man month utilised	Remarks
	As per PP	As per contract		
1	2	3	4	5

a) Foreign :

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b) Local :

09. Construction/Erection/Installation Tools & Equipment :

Description of items	Quantity (as per PP)	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
1 Nos Level Machine	01	24/05/2018	Barishal O&M Division, BWDB, Barishal. 01/07/2023	-	-	Being used by Barishal O&M Division for future survey, inspection & maintenance of the Project.
1 Nos eco sounder	01	30/06/2021	Barishal O&M Division, BWDB, Barishal. 01/07/2023	-	-	Being used by Barishal O&M Division for future survey, inspection & maintenance of the Project.
2 set Computer (with printer & scanner)	02	24/05/2018	Barishal O&M Division, BWDB, Barishal. 01/07/2023	-	-	Being used by Barishal O&M Division for future survey, inspection & maintenance of the Project.
1 Nos Photocopier	01	24/05/2018	Barishal O&M Division, BWDB, Barishal. 01/07/2023	-	-	Being used by Barishal O&M Division for future survey, inspection & maintenance of the Project.

C. FINANCIAL AND PHYSICAL PROGRAMME :**01. (a) Original and revised schedule as per PP :**

(In lakh Taka)

Financial Year	Financial provision & physical target as per original PP				Financial provision & physical target as per latest revised PP (HICA)			
	Total	Taka	P.A.	Physical %	Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9
2017-18	11784.95	11784.95	-	35.58%	65.28	65.28	-	0.176%
2018-19	10820.80	10820.80	-	32.67%	1498.08	1498.08	-	4.038%
2019-20	10518.24	10518.24	-	31.75%	3374.94	3374.94	-	9.097%
2020-21	-	-	-	-	13948.02	13948.02	-	37.60%
2021-22	-	-	-	-	18212.30	18212.30	-	49.09%
Total	33123.99	33123.99		100%	37098.62	37098.62		100%

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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
2017-18	150.00	150.00	-	0.40%	150.00	65.37	65.37	-	0.18%
2018-19	3000.00	3000.00	-	8.07%	1500.00	1498.05	1498.05	-	4.28%
2019-20	3375.00	3375.00	-	9.08%	3375.00	3374.94	3374.94	-	8.65%
2020-21	13950.00	13950.00	-	37.53%	13950.00	13948.02	13948.02	-	39.82%
2021-22	9700.00	9700.00	-	26.09%	9700.00	9699.77	9699.77	-	27.69%
2022-23	7000.00	7000.00	-	18.83%	6448.00	6438.23	6438.23	-	18.38%
Total	37175.00	37175.00	-	100.00%	35123.00	35024.38	35024.38	-	99.00%

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT :

Objectives as per PP	Actual achievement	Reasons for shortfall, if any
(a) To arrest erosion of the project area and will ensure safety of public and private properties.	(a) Charbaria Project Area area under Barishal Sadar Upazila has been protected by the implementation of the project.	No Shortfall
(b) To protect Barishal city Water treatment plant, 230KV PGCB Line, Beltala ferry ghat, Ship Yard, markets, primary/secondary school, homestead, cultivable land, road, and other private & public properties in the area from the Erosion of Kirtankhola River.	(b) Barishal city Water treatment plant, 230KV PGCB Line, Beltala ferry ghat, Ship Yard, markets, primary/secondary school, homestead, cultivable land, road, and other private & public properties have been protected from erosion of Kirtankhola river. Economic activities have been promoted at that area.	
(c) The approximate value of the properties to be saved is Tk. 106815.11 lakh.	(c) Properties have been saved by the protection of that area is around Tk. 106815.11 lakh.	

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E. BENEFIT ANALYSIS

01. Annual Out-put:

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).
Ensured safeguard from river bank erosion of following items :			
Charbaria Portion:			
Aman Crop	Hac	100	100
Boro Crop	Hac	20	20
Rabi Crop	Hac	40	40
Water Treatment Plant (25 acres)	Nos	1	1
Ice Factory	Nos	1	1
Saw Mill	Nos	4	4
Dock Yard (30 acres land)	Nos	3	3
Beltala Ferryghat	Nos	1	1
Homestead	Acre	4000	4000
Cultivable Land	Acre	5000	5000
Govt Primary School & High School	Nos	6	6
Mosque	Nos	9	9
Mandir	Nos	6	6
Madrasha	Nos	2	2
Unionparishad Complex	Nos	1	1
Automatic Rice Meal	Nos	1	1
Pacca Road	K.M	32.00	32.00
Commercial Bank	Nos	4	4
RCC Bridge	Nos	1	1
Market	Nos	2	2
Houses	Nos	3500	3500
Charkawa Portion:			
Ferryghat	Nos	1	1
Village Market (Shops)	Nos	200	195
Agricultural Land with Garden	Acre	70	70
Fazil Madrasha (Including Land)	Nos	1	1
College (Including Land)	Nos	1	1

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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).
Road	K.M	1.2	1.2
Houses	Nos	300	285
Govt Primary School (Including Land)	Nos	2	2

02. Cost / Benefit :

Item	Estimated	Actual
(1) Benefit cost ratio of the project		
(i) Financial	-	
(ii) Economic	1.56:1.00	Will be evaluated later by concern directorate of BWDB & IMED.
(2) Internal Rate of Return		
(i) Financial	-	
(ii) Economic	22.79%	

03. Please give reasons for shortfall, if any, between the estimated and actual benefit: No Shortfall.

F. MONITORING AND AUDITING

0.1 Monitoring:

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
Ministry / Agency:			
Zaheed Farooque MP Hon. State Minister, MoWR	Several Times	No major problems identified	Instructed to follow approved designs for construction work & to complete within the stipulated time.
Kabir Bin Anwar Senior Secretary, MoWR	Several Times	No major problems identified	Suggested to complete the project timely.
Nazmul Ahsan Secretary, MoWR	11/08/2023	No major problems identified	Suggested to monitor the project area regularly & to do maintenance work if necessary.
Mahmudul Islam Additional Secretary, MoWR	13/08/2020 & 14/08/2020	No major problems identified	Suggested to complete the project timely.
Mizanur Rahman Additional Secretary, MoWR	18/07/2022	No major problems identified	Suggested to increase monitoring & complete the project timely.
Md. Robiul Alam Joint Secretary, MoWR	19/06/2023	No major problems identified	Suggested to complete the project timely.
Md. Mahmud Hasan & Najmul Islam Bhuiyan Deputy Secretary, MoWR	05/11/2021 & 06/11/2021	No major problems identified	Suggested to increase the progress of the project immediately.
Planning Commission			

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
Sharifa Khan Member (Secretary) Planning Commission. Moha: Enamul Haque Joint Chief (Joint-Secretary) Planning Commission. Md. Sarwar Hossain, Senior Assistant Chief (Senior Assistant Secretary) Planning Commission. & Md. Alamgir Hossain Personal Secretary to Member (Secretary) Planning Commission.	01/07/2022 to 03/07/2022	No major problems identified	Suggested to complete the project within the extended time following design & specification.
IMED :			
Md. Saiful Islam Director General, IMED	10/06/2022	No major problems identified	Suggested to complete the project duly.
Muhammad Shahdat Hossain Director, IMED	05/10/2021	No major problems identified	Suggested to increase monitoring and complete the project timely.
Md. Afzol Hossain Director, IMED	08/04/2019	No major problems identified	Suggested to increase monitoring and complete the project timely.
BWDB			
Fajlur Rashid DG, BWDB. & A.K.M Shamsul Alam ADG (West Region) BWDB.	03/09/2021	No major problems identified	Suggested to increase monitoring and give letter to contractor where needed.
Md. Romjan Ali Pramanik DG, BWDB.	09/07/2023	No major problems identified	Suggested to monitor the project area regularly.
Zulfiqur Ali Hawlader Chief Engineer Southern Zone, BWDB, Barishal.	Several times	No major problems identified	Instructed to increase monitoring and follow approved designs for construction work
Md. Harun-Ar-Rashid Chief Engineer, Southern Zone, BWDB, Barishal.	Several times	No major problems identified	Approved design & specification must be followed.
Md. Nurul Islam Sarker Chief Engineer, Southern Zone, BWDB, Barishal.	Several times	No major problems identified	Instructed to increase monitoring and follow approved designs for construction work
Majibur Rahman Chief Engineer, Southern Zone, BWDB, Barishal.	Several times	No major problems identified	Instructed to increase monitoring and follow approved designs for construction work

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Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
Md. Rafiqul Islam Chaube Chief Engineer, Monitoring, BWDB, Dhaka.	20/11/2021	No major problems identified	Instructed to complete the project duly.
Md. Aminul Islam Superintending Engineer, Design Circle-2, BWDB, Dhaka.	Several times	No major problems identified	Approved design & specification must be followed.

0.2. Auditing during and after Implementation:

2.1. Internal Audit: No internal audit conducted.

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

2.2. External Audit:

Audit period	Date of submission of Audit Report	Major findings/ objections	Whether objections Resolved or not.
1	2	3	4
2018-19	05-02-2020	Additional payment of 24,04,607 taka without budget allocation.	Reply has been submitted through competent authority and resolution of the objection is on process.
2019-20 & 2020-21	07-10-2021	Financial losses of 1,83,97,130 taka due to the payment of CC Block bill without acceptance of Taskforce's CC Block Report.	Reply has been submitted through competent authority and resolution of the objection is on process.
		Contractors did not perform insurance on various risk. That's why govt losses money as VAT.	
		Without the permission of Finance ministry, honarium of Mid-term evaluation was given to the committee members.	
2021-22	02.10.2022	Supplying, filling and dumping bill of CC Block was given to the contractor without test report and taskforce report.	Reply has been submitted through competent authority and resolution of the objection is on process.
	29.09.2022	Contractors did not perform insurance on various risk. That's why govt losses money as VAT.	

✓

G. DESCRIPTIVE REPORT

General Observations/Remarks of the Project on:

1.1 Background

Barishal district is located at the bank of Kirtonkhola river. Being situated in the active delta system, bank erosion is also very common along the Kirtonkhola river which is one of the most complex river in the Barishal Division. The kirtonkhola river is one of the largest river in Bangladesh. Huge amount of flow is discharged through the river to Bay of Bengal. Charbaria union of Barishal sadar upazilla is situated at right bank of kirtonkhola river. Charkawa union of Barishal sadar upazilla is situated at left bank of kirtonkhola river. River bank erosion at Charbaria and charkawa union was severe from 2010 to 2016. The project area is located at Charbaria & Charkawa Union under Sadar Upazila of Barisal District. The area is only 5.00 Km away from Barishal Headquarter. It is on the north part of the Sadar Upazila. Charbaria & Charkawa suffers from severe river erosion of the Kirtankhola River. River bank erosion occurs at Lamchari, Charbaria, charkawa, Maharaj, Charabdani and Beltola Ferryghat area of Charbaria & Charakawa Union. Various Government and non-government infrastructure of the area are threatened from the river erosion. Barisal city Water treatment plant, Beltala ferry ghat, Ice factory, Ship Yard, Shops, residence, schools, agriculture land and other infrastructures suffered from the erosion problem.

0.090 km river bank protection work was implemented by Climate Change Trust Fund in 2015-16 & 2016-17 fiscal years to protect Charbaria Vangar Paar of Kirtankhola river. For this reason, river erosion was significantly reduced in that area. But severe river erosion was continued beyond up-stream and down-stream side of the completed bank protection work. Due to severe river erosion, up-stream and down-stream area side of bank protection work was damaged and engulfed into the river.

To solve the erosion problem, local people demanded necessary action. Honorable Member of Parliament of Barisal, sadar- 05, & Upazila Chairman, Barisal sadar are requested the Honorable Minister, Ministry of Water Resources through DO letter to take necessary measures to solve the erosion problem of that area. After that a technical committee was formed by BWDB to prepare a technical report. Committee submitted a technical report on June '2017. According to the recommendation of the report, DPP was formed and approved by ECNEC on 02/11/2017.

1.2 Justification/Adequacy:

The described area was an area affected by the erosion of Kirtonkhola river. Up to 2005, the incidence of river erosion was low and from 2007, the incidence of river erosion was gradually increasing. Over the past few years the river erosion had intensified and the river had entered about 2.00 km from its former location and most of the Charbaria & Charkawa Union had been lost to Kirtonkhola. New Char rising on the left bank of Kirtonkhola increased erosion on the right bank. At that time, the set back distance was gradually decreasing due to the continued erosion of the river. Barisal city Water treatment plant, Beltala ferry ghat, Ice factory, Ship Yard, Shops, residence, schools, agriculture land and other infrastructures including government-owned properties was located in the mentioned area.

2

The described property was likely to disappear in the near future. To protect these structures at Charbaria and Charkawa union, this project was taken and implented.

1.3. Objectives:

The main objectives of this project are-

- To arrest erosion of the project area and will ensure safety of public and private properties.
- To protect Barishal city Water treatment plant, 230KV PGCB Line, Beltala ferry ghat, Ship Yard, markets, primary/secondary school, homestead, cultivable land, road, and other private & public properties in the area from the Erosion of Kirtankhola River.
- The approximate value of the properties to be saved is Tk.106815.11 lakh.

1.4. Project revision with reasons:

In the original DPP of the project, Tk 15034.83 lakhs against 4510 m river bank protection works, Tk 1010.23 lakhs against 2 end termination works and Tk 16830.08 lakhs (113.72 Lac cubic meters) against 5600 m river dredging work was allocated.

Suddenly, about 3.00 km downstream of the project area, severe river erosion has occurred at Charkawa area on the left bank of Kirtankhola river. Last few years the river erosion has increased and the river had entered approx. 200m towards countryside. Due to continuous river bank erosion, the set back distance from Charkawa Ferryghat, Charkawa Fazil Madrasha, Union Parishad, Bus stand, Charkawa Bazar, primary school, secondary school, health clinic, mosques, gardens and other structures including government-owned property and other structures located in the mentioned area was gradually decreasing as the river erosion continued. On 30/03/2019 Mr. Zaheed Farooque MP (Hon. Minister of State, Ministry of Water Resources) visited important places, erosion prone area in Charbaria & Charkawa area. During the visit, detailed discussion and observation were made regarding the cause of erosion in charkawa area, the rate of erosion in the past days. He also gave directions for taking measures in vernarable areas that not included in the ongoing project. On that ground, it was required to add 1.177 km bank protection work in the 1st revised DPP. These area were km 0.000 to km 1.177 in Charkawa area.

Later, a technical committee was formed vide Bangladesh Water Development Board's Memo No. BWDB(Sachi)/Par-1/Miscellaneous-3/2019(1st Vol.)/70; dated 07-04-2019 to check viability of revise DPP. The Committee's report was submitted to the Board in June 2019. In view of the reality and the recommendations of the report, the DPP was revised by extending the implementation period from June 2020 to June 2021 by one year with inclusion of new protection works in the DPP.

From December'2019, the outbreak of COVID-19 occurred in the world and it spread all over the world. Due to the outbreak of the COVID-19 in Bangladesh as well, the government declared a general holiday from 26.03.2020 and also cut off inter-district and inter-upazila communication. On the other hand, the government has instructed everyone to maintain social distancing. Due to the COVID-19 situation and fear among the labour, the presence of workers in the field was also

reduced to maintain social distance. On the other hand, uninterrupted supply of necessary construction materials at the field level was not possible due to the lack of inter-district communication. In that arisen situation that arose, the development work at the Charbaria site was slow. Due to which the duration of the project is extended upto June'2022 without increasing the cost of the project.

As per approved original design, CC Blocks under the project was instructed for dumping through engine boats. Later, according to field level reality, instructions for dumping of CC blocks through barge were given in revised design and the implementation of the dumping work was started accordingly. For this reason, the contract price of river bank protection works increased. On the other hand, there was a provision for 5600 meters of river dredging (113.72 lakh cubic meters) included in the main DPP. Due to the morphological changes of the river, the existing bed level of the river in some places were found lower than the design bed level. As the river was deeper, the quantity of dredging work is reduced to 41 lakh cubic meter & cost of the work decreased accordingly. In that case, Inter Item Cost Adjustment of the project was required.

The 3rd meeting of the steering committee of the project was held at the Ministry of Water Resources on 27-09-2021. According to the revised design, it was decided to quickly send the Inter Item Cost Adjustment proposal to the Ministry.

According to the decision taken in the 3rd meeting of the steering committee on 27/09/2021 , the Inter Item Cost Adjustment proposal of the project was submitted to the Ministry of Water Resources on 26/01/2022 and the Appraisal meeting was held on 16/02/2022. On that meeting, it was decided to rearrange Inter Item Cost Adjustment proposal ensuring provision for dredged earth management with construction of peripheral dyke along with riverside slope protection of the dyke with geobags as well as planting trees and planting grass on the slope of the dyke's country side and send it to the ministry immediately.

The reformed Inter Item Cost Adjustment proposal was submitted to the Ministry of Water Resources on 03/04/2022 and the DPEC meeting was held on 10/05/2022. On that meeting, Inter Item Cost Adjustment proposal was approved.

Furthermore, With the recommendation of IMED & Planning commission the duration of the project was extended upto June'2023 on 26-07-2022 without increasing the cost of the project & with obligation of no further time extension.

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

It comes out from the study that revetment type of protection measure with provision for post construction monitoring may be taken up. An adaptive approach of bank protection could be followed in this regard. It involves the identification of priority bank protection and its implementation. The need for the subsequent work would be determined based on the river

responses to the already constructed work. The study covers prediction of consequences of such partial measures that could be further fine-tuned by inclusion of updated filed data.

Detailed Cost-Estimate for physical interventions of the project for implementation of 5.687 km bank protection work, 5.600 km dredging work and 219.30 m end termination work as recommended by the Technical Committee Report and included under this approved Revised Development Project Proposal (RDPP) has been prepared on the basis of approved design and later on reviewed during implementation of physical work on the basis of latest river morphology and current Schedule of Rates of Barishal O&M Circle, BWDB, Barishal.

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

- ◆ **Project Identification:** The Project was initially identified by local politicians, local elites, public representatives, honorable local member of parliament, local administrative etc. The Stakeholders of that area earnestly requested the Honorable Member of Parliament to address the problem of river erosion from river Kirtonkhola. Accordingly Honorable Member of Parliament sent DO letter to Honorable Minister, Ministry of Water Resources to take up the project.

- ◆ **Project Preparation:**

According to the instruction of Honorable Minister, Ministry of Water Resources & the Secretary, Ministry of Water Resources & the Director General, BWDB, the project was prepared. A Technical Committee was formed vide memo no: T-3/Chief Planning/3109 dated: 27-02-2014 by BWDB to submit a Technical Report in respect of social, economical & environmental impact, safety of properties & infrastructure and also sustainability in the project area. Technical committee submitted a report and based on that report the project was prepared.

- ◆ **Appraisal:**

As per decision of PEC meeting the DPP was reformed & sent to the ECNEC for approval of the above project and finally the project was approved by the ECNEC on 17/10/2017. Administrative approval was obtained on 08/11/2017.

- ◆ **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 by ECNEC on 17/10/2017, 1st Revised DPP was approved by Ministry of Water Resources on 07/08/2019 and Inter item cost adjustment DPP was approved by Ministry of Water Resources on 09/06/2022.

♦ **Others (if any):** Nill.

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 stack holders are directly taking advantages of the created facilities of the project.

4.3 O & M programme of the project.

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

4.4 Impact of the project -

4.4.1 Direct.

- a. Protection of Charbaria & Charkawa union under Barishal sadar Upazila from erosion of the kirtonkhola River in Barisal District.
- b. Providing safety for human lives, properties and improve economic activities by construction of protective works at the vulnerable locations along the Kirtonkhola River.
- c. Properties have been saved by the protection of that area is around 106815.11 lakh.

4.4.2. Indirect

- a. Safety of human livelihood and properties.
- b. Improvement of socio-economic condition.

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 workers were employed during construction period.

4.7 Possibility of Self employment

There are possibilities of self employment as existing commercial, industrial and business centre are protected from river bank erosion and the environmental degradation.

4.8 Possibility of women-employment opportunity

Yes, there are possibilities of women-employment through the project benefited area enhanced.

4.9 Women's participation in development

Yes.

4.10 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.

4.11 Impact on environment

Environmental enhancement is achieved through the implementation of the project.

4.12 Sustainability of the project

The project is sustained but requires periodic maintenance.

4.13 Contribution to poverty alleviation/reduction

The project has direct contribution and impact on poverty alleviation/reduction.

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

05. 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	: Cyclone like Fhoni, Bulbul and Yaash had created



some problem at working site.


- 5.10 Project financing, allocation and release** : N/A.
- 5.11 Design formulation/approval** : Change in design due to increasing depth of river during implementation period.
- 5.12 Project aid disbursement and reimbursement** : N/A.
- 5.13 Mission of the development partners.** : N/A.
- 5.14 Time & Cost Over-run** : 100% time over-run. Implementation period was extended due to insufficient budget allocation and Covid-19 pandemic.
- 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** : Some packages had to be tendered after RDPP approved.
- 5.20 Others** : N/A.


6. Remarks & Recommendations of the Project Director: The Kirtonkhola River is one of the largest river in Bangladesh. Huge amount of flow is discharged through the mentioned river to Bay of Bengal. Charbaria & Charkawa suffers from severe river erosion of the Kirtankhola River from 2010 to 2016. River bank erosion occurs at Lamchari, Charbaria, charkawa, Maharaj, Charabdani and Beltola Ferryghat area of Charbaria & Charakawa Union. Various Government and non-government installations of the area are threatened from the mentioned river erosion. Barisal city Water treatment plant, Beltala ferry ghat, Ice factory, Ship Yard, Shops, residence, schools, agriculture land and other infrastructures suffer from the kirtonkhola river erosion problem. In that context, BWDB took this project. The project area is located at the charbaria & charkawa union of Barishal sadar upazilla. The project has been implemented in compliance with approved design & specifications. Close monitoring during the execution of the work has been ensured by staying concern Sub-Assistant Engineer in the project area. Quality control has been ensured by BWDB's concern field officer (Sub-Divisional Engineer, Executive Engineer, Superintending Engineer/ Project Director & Chief Engineer) and Taskforce member to ensure highest quality. Along with BWDB field officer high official from BWDB headquarter, Ministry of Water Resources, Planning Commission & IMED visited the project area. Moreover, Honorable State Minister, Ministry of Water Resources, Local Honorable Member of Parliament and Local Allieds visited the project time to time. Important opinion from high officials were implemented to complete the project successfully.



River erosion at project area has been stopped after implementation of the project. Now the project is providing safety for human lives, valuable properties and improving economic activities. People in the project area got rid of severe river erosion. Target of the project has been achieved and the goal is obtained.

A minimum yearly maintenance budget is required for the sustainability of the project. During every rainy season bathymethic survey of the project area will have to be done in order to monitoring the morphological change of Kirtonkhola River along the project area. If any change occur necessary measures will have to taken by consulting with concern design office.

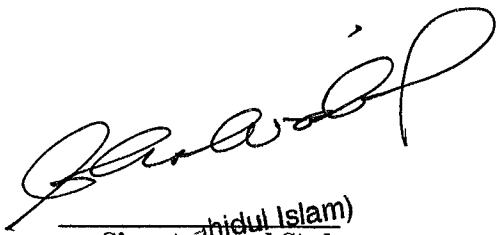

22/05/20
(Md. Khalid Bin Ollid)
ID No: 810202003
Executive Engineer
Barishal O&M Division
BWDB, Barishal.


22/05/20
(Mohammad Nasir Uddin)
Superintending Engineer
Barishal O&M Circle,
BWDB, Barishal
&
Project Director.

7. Remarks/Comments of Agency Head

The main objective of this project was to protect charbaria & charkawa union of Barishal sadar upazilla from river bank erosion of Kritonkhola river. This objective has been achieved by implementation of 5.67 river bank protection work as well as 5.60 km of river dredging work. The implementation of aforementioned work has mitigated river bank erosion at the same time provides sense of safety to the people living near the river bank. This sense of safety against river bank erosion has promoted economic activities which results in improved livelihood. This project can be regarded as a successful endeavor for achieving its intended goals.

Date: 03/12/2013


Signature and Seal
(S.M. Shahidul Islam)
ID NO: 650301001
Director General
BWDB, Dhaka.

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

This project is implemented in charbaria & charkawa union of Barishal sadar upazilla to reduce river bank erosion of the Kritonkhola river. A total of 5.67 km of river bank protection work as well as 5.60 km of river dredging work were done under this project. As a result, river erosion at project area has been stopped. Now the project is providing safety for human lives, valuable properties and improving economic activities. Target of the project is achieved and the goal is obtained.

Date :

Signature and Seal

