

BANGLADESH WATER DEVELOPMENT BOARD



IMED-04/2003 (REVISED)

PROJECT COMPLETION REPORT

NAME OF PROJECT : Rajbari Town Protection (Phase-II) (1st Revised)

PROJECT PERIOD: JULY 2017 TO JUNE 2022.

DIVISION : RAJBARI O&M DIVISION, BWDB, RAJBARI.
NAME OF CIRCLE : FARIDPUR O&M CIRCLE, BWDB, FARIDPUR.
NAME OF ZONE : WESTERN ZONE, BWDB, FARIDPUR.

September/2022.

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 : Rajbari Town Protection (Phase-II) (1st Revised)
02. Administrative Ministry/Division : Ministry of Water Resources (MoWR).
03. Executing Agency : Bangladesh Water Development Board (BWDB).
04. Location of the Project : Division District Upazila
Dhaka Rajbari Rajbari Sadar
05. Objectives of the Project :
- The main objective of the project is to protect Rajbari Town and Faridpur-Barisal FCD Project (Rajbari Unit) from severe erosion of Padma River by the construction of 4.50 km. River Bank Protective work and Re-construction/repair of 2.500 km protective work on the most vulnerable bank line by CC block & dumping of geo-bag.
 - To protect the catchment area of Faridpur-Barisal FCD Project (Rajbari Unit) of 18,000 hectares.
 - To save the property valued Tk.173495.00 lakh approximately.

06. Estimated Cost:

(In lakh-Taka)

	Original	Latest Revised (1st)
(a) Total	34198.66	37628.12
(b) Taka	34198.66	37628.12
(c) Foreign Currency	-	-
(d) Project Aid	-	-
(e) RPA	-	-

07.	Date of Approval	:	PCP	PP
(a)	Original	:	-	24 August, 2017
(b)	1st Revised	:	-	12 June, 2019
(c)	No Cost Time Extension	:	-	28 June, 2021
(d)	Inter Item Cost Adjustment	:	-	22 June, 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) Actual	July, 2017	June, 2022

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 Effectiveness	Date of Closing	
						Original	Revised
1	2	3	4	5	6	7	8
.....Not Applicable.....							

b) GOB:**(In lakh Taka)**

Total amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
37628.12	-	37628.12	-

9.2 Utilization of Project Aid: (Source wise)**(In million)**

Source (s)	Total Amount		Actual Expenditure		Unutilized Amount	
	In US \$	In Local Currency	In US \$	In Local Currency	In US \$	In Local Currency
1	2	3	4	5	6	7
.....Not Applicable.....						

9.3 Re-imbursible Project Aid (RPA):**(In lakh Taka)**

RPA Amount		Amount Spent	Amount Claimed	Amount Re-imbursed	Remarks
As per PP	As per Agreement				
1	2	3	4	5	6
.....Not Applicable.....					



B. IMPLEMENTATION POSITION

01. Implementation Period:

Implementation Period as per 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, 2022	July,2017 to June,2022	66.67%	Due to increased scope of work in the 1 st RDPP and due to restrictions of activities during the COVID-19 situation, the project duration was extended.

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	34198.66	37628.12	37561.42	(+) 09.83%	Due to severe flood in the fiscal year of 2017-2018 and 2018-2019, the 2.500 km protective work, which was constructed during 2008-2012, was damaged. Therefore Repair/Reconstruction work of damaged protective area was included in the first revision of this project. As a result, total cost of the project increased.
TAKA	34198.66	37628.12	37561.42		
PA	-	-	-		

03. Project Personnel: Project work has been completed by the existing manpower of Rajbari O&M Division, BWDB, Rajbari.

Sanctioned strength as per PP	Manpower employed during execution	Status of the existing Manpower			Manpower Employed	
		Manpower requirement for O&M as per PP	existing Manpower for O&M	Others	Male	Female
1	2	3	4	5	6	7
Officer(s)	Existing Man-power of the Implementing Agency were deployed during execution of the project.					
Staff(s)						
Total						

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

Field of Training /Study tour/workshop/S eminer etc.	Provision as per PP		Actual		Remarks
	Number of persons	Man - months	Number of persons	Man - months	
1	2	3	4	5	6

a) Foreign Nil

b) Local Nil

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

Items of work (As per PP)	Unit	Target (as per PP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
(A) Revenue Component:						
Supplies and Services:						
4827 Printing and publication	1 item	2.00	1 item	2.00	1 item	
4828 Stationery, seal and stamps	1 item	8.00	1 item	7.99	1 item	
4883 Remuneration of the members of Steering Committee, Tender Opening Committee & Tender Evaluation Committee, Intermediate evaluation and progress monitoring	1 item	10.00	1 item	7.53	1 item	
4886 Survey & Investigation, 1 Item	1 item	20.00	1 item	19.72	1 item	
Repair, maintenance & rehabilitation						
4901 Repair & maintenance of existing vehicles.	1 item	10.00	1 item	9.99	1 item	
Sub-total Revenue Component (A):		50.00		47.23		
(B) Capital Component:						
6815 Desktop Computer (Brand) with Laser Printer & accessories (4 nos.) & Fax machine (1 nos)	nos	3.20	5	3.00	4	
Construction of works:						
7081 Bank Revetment Work (Chainage from km. 53.300 to km. 54.800= 1.500 km. at Mijanpur and from 57.200km. to km. 60.200 = 3.00km at Lalgola area Total Length = 4.500km. and Re- construction/repair of protective work (Chainage from km. 54.700 to km. 57.200= 2.500 km.), Rehabilitation Work =1.613 km	km	30098.92	7.000	30035.19	7.000	

Items of work (As per PP)	Unit	Target (as per PP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
7081 Dredging of submersible char of Padma River (Chainage from km. 51.900 to km. 60.200= 8.300 meter)	Km/ lakh cum	7476.00	8.300 km/ 49.68 lakh cum	7476.00	8.300 km/ 49.68 lakh cum	
Sub-total Capital Component (B):		37578.12		37514.19		
Total (A+B):		37628.12	100.00%	37561.42	99.83%	

(In lakh Taka)

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
AKM Wahed Uddin Choudhury Chief Engineer, Western Zone, BWDB, Faridpur Scale: 2nd Grade (66,000- 76,490)	Full time	-	Yes	28-12-2017	27-10-2020	
Syed Shahidul Alam Superintending Engineer, Faridpur O&M Circle, BWDB, Faridpur Scale: 4th Grade (50000- 71200)	Full time	-	Yes	07-01-2021	Till date	

07. Procurement of Transport (in Nos.): There was no provision of transportation procurement in this project.

Type of transport	Number as per P.P.	Procured with date	Transferred to Transport Pool with date	Transferred to O & M with date	Condemned/d amanged with date	Remarks
1	2	3	4	5	6	7

..... Nil

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/Proposa l Cost (in crore Taka)		Tender/Bid/Pro posal		Date of completion of works/services and supply of goods	
	As per DPP Original / Revised/ IICA	Contract ed value	Invitat ion date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Protective work along the right bank of Padma River from km 53.200 to km 54.700 = 1.500 Km and km 57.200 to km 60.200 = 3.000 Km at Mizjanpur, Borat Union, Upazilla- Rajbari Sadar, District- Rajbari in c/w "Rajbari Town Protection Project (Phase-2)" under Rajbari O&M Division, BWDB, Rajbari during the year 2018-2019 and 2019-2020. Dredging of Submersible char for Padma Right from km 51.900 to km 60.200 = 8.300 Km (Package No. DPM(RTPP-II)-01/2017-18)	Original: 328.97 1 st Riv: 302.12 IICA: 217.40	217.40	08.02.2 018	07.06.2 018	31.05.2020	31.05.2022
Repair/Reconstruction of Protective work along the right bank of Padma River from km 54.700 to km 55.300 = 0.600 km at Mijanpur, Borat Union, Upazilla- Rajbari Sadar, District- Rajbari in c/w "Rajbari Town Protection Project (Phase-II)" (1 st Revised) under Rajbari O&M Division, BWDB, Rajbari during the year 2018-2019 and 2019-2020. (Package No. W-RAJ.-01)	Original: - 1 st Riv: 18.60 IICA: 18.99	Original: 18.60 Rivised: 18.99	23.04.2 019	05.07.2 019	31.05.2021	31.05.2022
Repair/Reconstruction of Protective work along the right bank of Padma River from km 55.300 to km 55.735 = 0.435 Km at Mijanpur, Borat Union, Upazilla- Rajbari Sadar, District- Rajbari in c/w "Rajbari Town Protection Project (Phase-I)" under Rajbari O&M Division, BWDB, Rajbari during the year 2019-2020. (Package No. W-RAJ.-02)	Original: - 1 st Riv: 13.49 IICA: 12.08	Original: 13.48 Rivised: 12.08	21.04.2 019	02.07.2 019	31.05.2021	31.05.2022
Repair/Reconstruction of Protective work along the right bank of Padma River from km 55.735 to km 56.187 = 0.452 Km at Mijanpur, Borat Union, Upazilla- Rajbari Sadar, District- Rajbari in c/w "Rajbari Town Protection Project (Phase-I)" under Rajbari O&M Division, BWDB, Rajbari during the year 2019-2020. (Package No. W-RAJ.-03)	Original: - 1 st Riv: 14.55 IICA: 14.34	Original: 14.54 Rivised: 14.34	21.04.2 019	03.07.2 019	31.05.2021	31.05.2022
Repair/Reconstruction of Protective work along the right bank of Padma river from km 56.187 to km 56.800	Original: - 1 st Riv:	15.39	07.05.2 019	30.06.2 019	31.05.2021	31.05.2022

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Propo sal Cost (in crore Taka)		Tender/Bid/Pro posal		Date of completion of works/services and supply of goods	
	As per DPP Original / Revised/ IICA	Contract ed value	Invitat ion date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
0.613 km at Mijanpur Borat Union Upazilla- Rajbari Sadar District- Rajbari in c/w Rajbari Town Protection Project Phase- II 1st Revised under Rajbari O&M Division BWDB Rajbari during the year 2018-2019 and 2019-2020(Package No. W-RAJ.-04)	15.72 IICA: 15.39					
Repair/Reconstruction of Protective work along the right bank of Padma River from km 56.800 to km 57.200 = 0.400 Km at Mijanpur, Borat Union, Upazilla- Rajbari Sadar, District- Rajbari in c/w "Rajbari Town Protection Project (Phase-I)" under Rajbari O&M Division, BWDB, Rajbari during the year 2019-2020. (Package No. W-RAJ.-05)	Original: - 1 st Riv: 9.80 IICA: 9.22	9.22	21.04.2 019	03.07.2 019	31.05.2021	31.05.2022
Rehabilitation of Protective Work along the R/B of Padma River from KM 53.560 to KM 53.651 = 91m, KM 53.688 to KM 53.712 = 24m & KM 53.770 to KM 53.890 = 120m Total 235m in c/w "Rajbari Town Protection (Phase-II) (1st Revised)" at Location: Selimpur, Union: Mijanpur, Upazilla: Rajbari Sadar, Dist. Rajbari under Rajbari O&M Division, BWDB, Rajbari during the FY 2021-22. (Package No. RW-RAJ-01)	Original: - 1 st Riv: - IICA: 12.04	12.04	05.01.2 022	04.03.2 022	30.06.2022	30.06.2022
Rehabilitation of protective work along the R/B of Padma River from km. 53.890 to km 54.102 = 212 m in c/w "Rajbari Town Protection (Phase-II) (1st Revised)" at Location: Selimpur, Union: Mijanpur, Upazilla: Rajbari Sadar, Dist. Rajbari under Rajbari O&M Division, BWDB, Rajbari during the FY2021-22. (Package No. RW-RAJ-02)	Original: - 1 st Riv: - IICA: 11.85	11.85	05.01.2 022	16.03.2 022	30.06.2022	30.06.2022
Rehabilitation of protective work along the R/B of padma river From KM 54.419 to KM 54.600 = 181.00m in c/w "Rajbari Town Protection (Phase-II) (1st Revised)" at Location: GodarBazar, Union: Mijanpur, Upazilla: Rajbari Sadar, Dist. Rajbari under Rajbari O&M Division, BWDB, Rajbari during the FY 2021-22.	Original: - 1 st Riv: - IICA: 9.41	9.41	05.01.2 022	01.03.2 022	30.06.2022	30.06.2022
Rehabilitation of protective work along the R/B of padma river from km. 54.600 to km 54.747 = 147m in c/w "Rajbari Town Protection (Phase-II) (1st Revised)" at Location:	Original: - 1 st Riv: - IICA:	11.24	05.01.2 022	01.03.2 022	30.06.2022	30.06.2022

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Propo sal Cost (in crore Taka)		Tender/Bid/Pro posal		Date of completion of works/services and supply of goods	
	As per DPP Original / Revised/ IICA	Contract ed value	Invitat ion date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Godarbazar, Union: Mijanpur, Upazilla: Rajbari Sadar, Dist. Rajbari under Rajbari O&M Division, BWDB, Rajbari during the FY 2021-22.	11.24					
Rehabilitation of protective work along the R/B of padma river from km. 54.600 to km 54.747 = 147m in c/w "Rajbari Town Protection (Phase-II) (1st Revised)" at Location: Godarbazar, Union: Mijanpur, Upazilla: Rajbari Sadar, Dist. Rajbari under Rajbari O&M Division, BWDB, Rajbari during the FY 2021-22. (Package No. RW-RAJ-05)	Original: - 1 st Riv: - IICA: 9.84	9.84	05.01.2 022	08.03.2 022	30.06.2022	30.06.2022
Rehabilitation of protective work along the R/B of padma river From KM 54.820 to KM 54.906=86 m, KM 54.952 to KM 55.016=64 m; Total=150m in c/w "Rajbari Town Protection (Phase-II) (1st Revised)" at Location: Godarbazar, Union: Mijanpur, Upazilla: Rajbari Sadar, Dist. Rajbari under Rajbari O&M Division, BWDB, Rajbari during the FY 2021-22. (Package No. RW-RAJ- 06)	Original: - 1 st Riv: - IICA: 9.34	9.34	05.01.2 022	01.03.2 022	30.06.2022	30.06.2022
Rehabilitation of protective work along the R/B of padma river from km 55.016 to km 55.169=153 m in c/w "Rajbari Town Protection (Phase-II) (1st Revised)" at Location: Godarbazar, Union: Mijanpur, Upazilla: Rajbari Sadar, Dist. Rajbari under Rajbari O&M Division, BWDB, Rajbari during the FY 2021-22. (Package No. RW-RAJ-07)	Original: - 1 st Riv: - IICA: 9.48	9.48	05.01.2 022	10.03.2 022	30.06.2022	30.06.2022
Rehabilitation of protective work along the R/B of padma river from km 55.674 to 55.852=178 m in c/w "Rajbari Town Protection (Phase-II) (1st Revised)" at Location: Sonakandar, Union: Mijanpur, Upazilla: Rajbari Sadar, Dist. Rajbari under Rajbari O&M Division, BWDB, Rajbari during the FY 2021-22. (Package No. RW-RAJ-08)	Original: - 1 st Riv: - IICA: 6.49	6.49	05.01.2 022	03.03.2 022	30.06.2022	30.06.2022
Rehabilitation of protective work along the R/B of padma river from km 55.300 to km 55.400=100 m, km 55.414 to km 55.451=37 m, km 55.577 to km 55.640=63m; Total=200 m in c/w "Rajbari Town Protection (Phase- II) (1st Revised)" at Location:	Original: - 1 st Riv: - IICA: 8.59	8.59	05.01.2 022	31.03.2 022	30.06.2022	30.06.2022

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Propo 1 Cost (in crore Taka)		Tender/Bid/Pro posal		Date of completion of works/services and supply of goods	
	As per DPP Original / Revised/ ICA	Contract ed value	Invitat ion date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Sonakandar, Union: Mijanpur, Upazilla: Rajbari Sadar, Dist. Rajbari under Rajbari O&M Division, BWDB, Rajbari during the FY 2021-22. (Package No. RW-RAJ-09)						

8.2 Use of Project Consultant (s) (Foreign/Local): There was no provision of consultant deployment 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 : Not Applicable

b) Local : Not Applicable

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
Desktop Computer	4	30/06/2020	-	-	-	Used For Official Purpose

C. FINANCIAL AND PHYSICAL PROGRAMME:

01. (a) Original and revised schedule as per DPP:

(In lakh Taka)

Financial Year	Financial provision & physical target as per original DPP				Financial provision & physical target as per latest revised DPP			
	Total	Taka	P.A.	Physical %	Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9
2017-18	5812.95	5812.95	-	17.00%	125.00	125.00	-	0.33%
2018-19	15005.20	15005.20	-	43.88%	7500.00	7500.00	-	19.93%
2019-20	13380.51	13380.51	-	39.12%	7500.00	7500.00	-	19.93%
2020-21	-	-	-	-	8800.00	8800.00	-	23.39%
2021-22	-	-	-	-	13703.12	13703.12	-	36.42%
Total:	34198.66	34198.66	-	100.00%	37628.12	37628.12	-	100.00%

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	125.00	125.00	-	0.33%	125.00	125.00	125.00	-	0.33%
2018-19	7500.00	7500.00	-	19.93%	7500.00	7497.60	7497.60	-	19.93%
2019-20	12500.00	12500.00	-	19.93%	7500.00	7500.00	7500.00	-	19.93%
2020-21	8800.00	8800.00	-	52.81%	8800.00	8799.41	8799.41	-	52.81%
2021-22	13700.00	13700.00	-	7.00%	13699.75	13639.41	13639.41	-	6.83%
Total	42625.00	42625.00	-	100.00%	37624.75	37561.42	37561.42	-	99.83%

- ON FY 2019-20, FUNDS WERE NOT RELEASED AS PER ALLOCATION.

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Objectives as per DPP	Actual achievement	Reasons for shortfall, if any
a) The main objective of the project is to protect Rajbari Town and Faridpur-Barisal FCD Project (Rajbari Unit) from severe erosion of Padma River by the construction of 4.50 km. Permanent Protective work and Re-construction/repair of 2.500 km protective work on the most vulnerable bank line by CC block & dumping of geo-bag.	Due to implementation of the project through the intervention of bank protective work and dredging activity of padma River, Rajbari Town and Faridpur Barisal FCD project (Rajbari Unit) with adjacent area have been protected from the erosion of padma river. But, 1.63 km rehabilitation work was not completed.	The project area suffered excessive rainfall from April, 2022. So, the water level went up near the working site and it surpassed the lowest water level required for continuing placing work of CC blocks. Therefore, it was not possible to complete the placing work of ongoing 1.613 km repair work.
b) To protect the catchment area of Faridpur- Barisal FCD Project (Rajbari Unit) of 18,000 hectares.	The Catchment area (18,000 Hectare) of Faridpur –Barisal FCD Project (Rajbari Unit) is protected to a desired level.	
c) To save the property valued Tk.173495.00 lakh approximately.	Due to the implementation of project, large amount of property (more than valued TK 173495.00 lakh) have been saved from the tremendous erosion of Padma River. As a result, sufferings of people as well as property damage have been reduced to an expected level.	

E. BENEFIT ANALYSIS

01. Annual Out-put:

Items of out-put	Unit	Estimated quantity expected at full capacity	Actual quantity of out-puts during the 1st year of operation at full capacity (or during real production for newly completed project)
1	2	3	4
Ensured Safeguard from River Bank Erosion of Following Items/Establishments:			
Cultivable land	ha	5500	5300
Regultor	Nos	7	7
Mosque	Nos	45	45
DC office	Nos	1	1
Flood Control Embankment	Km	45	45
House/Home	Nos	750	740
Commercial Area	Ha	35	35
Market	Nos	10	10
Railway Station	Nos	1	1
Pourasava	Nos	10	10
Industry	Nos	10	10
Upzila Heath Complex	Nos	1	1
Police Station	Nos	1	1
Upzila Complex	Nos	1	1
High School/Madrassa/College	Nos	35	35
Pavement Road	km	20	20

02. Cost / Benefit:

Item	Estimated	Actual
(1) Benefit cost ratio of the project		
(i) Financial	1.80: 1.00	Will be evaluated later by concern directorate of BWDB and IMED.
(ii) Economic	2.14: 1.00	
(2) Internal Rate of Return		
(i) Financial	25.04 %	
(ii) Economic	26.27 %	

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
(a) MoWR:			
Mr. Zaheed Farooque, MP Hon'ble State Minister, MoWR.	23.04.2019 06.10.2021	No major problems identified.	Project Progress was satisfactory
Mr. A.K.M. Enamul Haque Shameem, MP Hon'ble Deputy Minister, MoWR.	09.08.2021 22.01.2019	No major problems identified.	Project Progress was satisfactory
Mr. Kabir Bin Anwar, Senior Secretary, MoWR	21.03.2019	No major problems identified.	Instructed to follow approved designs for construction works.
Mst. Alam Ara Begum Addl. Secretary (Dev), MoWR	21.11.2020	No major problems identified.	Project Progress was satisfactory
Mr. S.M. Rezaul Mustafa Kamal Joint Secretary (Planning), MoWR	22.01.2021 13.11.2021	Due to severe flood in the year of 2021 and diversion of the main flow of the padma river towards the on-going project/construction area the completed work from km 53.200 to km 57.200=4.00 km got severely affected in 11 spots and devastating river bed erosion caused sliding of pitching work and launching apron of a total length of 1.613 km among the mentioned 4.00 km area	a) Repair/ Rehabilitation work of the damaged areas has to be done as per approved design of BWDB Design Circle -5. b) Proper measures have to be taken to prevent illegal Sand Mining near the Protective Work area. c) Necessary steps have to be taken to complete the project within June, 2022.
Mr. Fazlur Rashid, DG, BWDB.	06.10.2021 09.08.2021	No major problems identified.	Instructed to follow approved designs for construction works.
Mr. Md Mazfuzur Rahman, DG, BWDB.	22.01.2019 23.04.2019	No major problems identified.	Instructed to follow approved designs for construction works & to complete within the stipulated time.
Mr. A.K.M Shamsul Alam, ADG, Western Zone, BWDB.	02.08.2021	No major problems identified.	Project Progress was satisfactory
Mr. Kazi Tofael Hossain, ADG, Eastern Zone, BWDB.	02.10.2020	No major problems identified.	Project Progress was satisfactory
(b) IMED:			

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
Mr. Afzal Hossain Director, IMED.	24.12.2018	a) To ensure geo-bag dumping as per approved design some area of River bank is needed to be cut. b) The progress of River Dredging work is needed to be increased and therefore, the number of dredgers present at the site is needed to be increased.	a) As some area of the river bank is needed to be cut for Geo bag dumping, proper measures should be taken to increase the number of Geo-bag dumping. b) To prevent erosion and bank shifting, Geo-bag dumping work has to be done during dry season. c) It has to be ensured that two dredgers present at the site has to be working for 8-10 hours. d) The construction work has been done as per design and specification.
(a) Others:			

0.2. Auditing during and after Implementation:

2.1. Internal Audit: No internal Audit was conducted

Audit period	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	24-12-2019	Financial loss of Tk 32026740.00/= by paying bill of Taskforce rejected 68142 no Geo Bag. (Copy attached in Annexure-C)	Spot reply was submitted 31-12-2019 and broad sheet reply was submitted on 13-04-2021 which was not resolved yet.
2019-20	18-01-2021	Excess expense of Tk. 32,89,63,637.00/= by illegally making DPM contract of the work which could be done by OTM.	Objection Resolved.
2020-21	Not Conducted Yet	-	-
2021-22	Not Conducted Yet	-	-

G. DESCRIPTIVE REPORT

1. General Observations/Remarks of the Project on:

1. Background:

Rajbari Town is situated at district head quarter beside the mighty river padma. It is an old city and also important commercial/business growth centre, as it is easily approachable by rail, road and water bound transport. Recently the town has been reformed by construction of modern architectural

buildings/structures under government and private sectors. But now the town is under threat by severe erosion of padma River.

The Faridpur, barisal FCD project (Rajbari Unit) was constructed during 1975-1992. The main objective of the project was to prevent the intrusion of flood water to an area of 18,000 hectares and improve the drainage facility. But due to continuous river erosion, the flood embankment comes to danger. If the flood embankment is eroded in to river, whole of the area of Rajbari District will be affected by flood.

It is mentioned that 2.900km (2.50km at Rajbari Sadar and 0.40 km at Goalondo Upazila) bank protection work has been completed under Rajbari town protection project with the cost of tk.4775.90 lakh. As a result, the river erosion of the respective areas in Rajbari town is under control. But the erosion of adjacent area of existing protective work of Rajbari Town protection project was badly affected by severe erosion. Now river bank is very close to flood embankment and set-bank distance from embankment to river was gradually reducing. If the flood embankment collapses, vast area of Rajbari District including Rajbari Town area will be affected by flood seriously. To safeguard the flood embankment as well as to safeguard the existing protective work of Rajbari Town protection project, the eroding bank had to be protected immediately.

An inter-ministerial committee was formed for rationalization of cost of Rajbari Town protection project as per decision of PEC Meeting held on 17.12.2008 in the Planning Commission recommended for implementation of 2.900km bank protective work (2.50km at Rajbari sadar Upazila and 0.400km at Goalondo Upazila) near Rajbari town area immediately. They also recommended for further intervention for remaining vulnerable area should be taken based on morphological study of Ganges River.

Morphological study for planning Erosion Mitigation Measures for protection of Rajbari Town against bank erosion of Ganges River had already been completed by IWM on June /2011. As per recommendation of the study, 9.500 km long bank protective work (including existing 2.40 km protective work) was needed to control the erosion at Rajbari Town Area. In the case of partial implementation, 1.5 km River Bank Protection (RBP) work at the upstream and 3.000 km River Bank Protection work at the down stream of existing 2.500 km protective work had to be implemented immediately.

1.2 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, huts and bazars as well as agricultural land. 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 retired embankment, safety of vast tract of agricultural lands and other immovable properties total worth of Tk 173495.00 lakh will be ensured against river erosion.

1.3 Objectives:

The specific and major benefits of the present project are:

- * The main objective of the project is to protect Rajbari Town and Faridpur-Barisal FCD Project (Rajbari Unit) from severe erosion of Padma River by construction of 4.50 km. Permanent Protective work and Re-construction/repair of 2.500 km protective work on the most vulnerable bank line by CC block & dumping of geo-bag.
- * To protect the catchment area of Faridpur- Barisal FCD Project (Rajbari Unit) of 18,000 hectares.
- * To save the property valued Tk. 173495.00 lakh approximately.

1.4 Project revision with reasons:

1ST REVISION:

Due to severe flood in the fiscal year of 2017-2018 and 2018-2019, the 2.500 km protective work which was constructed during 2008-2012 was damaged. Severe erosion of river bed level caused sliding of pitching work and launching apron at 7 to 8 spots of the 2.5 km previously completed protective work. So, to save the previously constructed protective work and on-going 4.5 km project area a technical committee was formed vide BDWB memo: BWDB(Secretary)/plan-1/Mis-3/2018(1st part)/152, Dated: 11-12-2018 to provide definite instruction regarding the situation. The technical committee visited the project area and damaged portions of the previous protective work and instructed/recommended to repair the 2.5 km protective work area to protect the Rajbari Town running project area, adjacent land and establishments. Again, the technical committee recommended that, from km 51.900 to km 55.500= 3.600 km Padma River dredging work has to be included with the on-going river dredging work to get better result from the dredging work of Padma River and to divert the main flow of the river from the right side of padma river bank area. The recommendations of the technical

report was approved on 31.03.2019 by the BWDB. According to that technical report, the 1st Revision of the project was approved on 12-06-2019 by MoWR. Total cost of the project increased in this process.

Inter Item Cost Adjustment:

The Dredging work of km 51.900 to km 60.200 = 8.300km in padma river under the project was completed during the fiscal year of 2020-2021 and after the post work of the dredging work was taken by TASKFORCE, BWDB. The amount of bill 73.76 crore was paid to the contractor according to the TASK FORCE pre-work and post-work report. Therefore, about TK 59.72 crore taka was saved from the dredging work.

Due to severe flood in the year of 2021 and diversion of the main flow of the padma river towards the on-going project/construction area the completed work from km 53.200 to km 57.200=4.00 km got severely affected in 11 spots. As a result, devastating river bed erosion caused sliding of pitching work and launching apron of a total length of 1.613 km within the mentioned 4.00 km area.

S. No.	Chainage	Affected/Damaged Length	Comments
01	Km 53.560 To Km 53.651	91.00 m	From Km 53.560 to KM 55.852=2.292 Km of the completed protective work of the project 1.613 km length got affected/damaged .
02	Km 53.688 To Km 53.712	24.00 m	
03	Km 53.770 To Km 54.152	382.00 m	
04	Km 54.284 To Km 54.391	107.00 m	
05	Km 54.419 To Km 54.747	328.00 m	
06	Km 54.820 To Km 54.904	86.00 m	
07	Km 54.952 To Km 55.169	217.00 m	
08	Km 55.300 To Km 55.400	100.00 m	
09	Km 55.414 To Km 55.451	37.00 m	
10	Km 55.577 To Km 55.640	63.00 m	
11	Km 55.674 To Km 55.852	178.00 m	
Total Chainage/Length of On-Going Protective Work - 2.292 KM		1.613 km	

So, to save the on-going 2.5km repair/re-constructed work and completed 4.5 km new protective work, a technical committee was formed vide ADG, Planning office of BWDB memo: 42.01.0000.032.06.005.21-175, Dated: 05-12-2021. The technical committee visited the project area and damaged portions of the protective work and instructed/recommanded to rehabilitate the 4.00 km affected protective work to protect the rajbari town, adjacent land and other establishments. The 9th Steering Committe meeting was held on 19-12-2021. In that meeting a combined decision was taken to rehabilitate the damaged protective work with the saved money from the dredging work through,

inter item cost adjustment. As per the decision taken in the 10th steering committee meeting held on 07/04/2022, the Inter Item Cost Adjustment of DPP was approved on 22-06-2022 by MoWR.

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

It comes out from the study of IWM 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 field data.

Detailed Cost-Estimate for physical interventions of the project for implementation of the proposed 4.500 km bank protective work and 4.600 km Padma river Dredging as recommended by the Technical Committee Report and included under this approved Development Project Proposal (DPP) has been prepared on the basis of approved design and later on reviewed during implementation of physical work on the basis of latest river morphology and current Schedule of Rates of Faridpur O&M Circle, BWDB, Faridpur. Later due to severe flood in the fiscal year of 2017-2018 and 2018-2019, the 2.500 km protective work constructed during Rajbari Town protection project (Phase I) (2008-2012) was damaged during that time. So, to save the previously constructed protective work and on-going 4.5 km project area a technical committee was formed vide BDWB memo: BWDB(Secretary)/planning-1/other-3/2018(1st part)/152, Dated: 11-12-2018 to provide definite instruction regarding the situation. The technical committee visited the project area and damaged portions of the previous protective work and instructed to repair the 2.5 km protective work area to protect the rajbari town, running project area and adjacent land and establishments. Again, the technical committee recommended that, from km 51.900 to km 55.500= 3.600 km padma river dredging work has to be included with the on-going river dredging work from km 55.500 to km 60.200=4.600km to get better result from the dredging work of Padma River and to divert the main flow of the river from the right side of padma river bank area. Including the stated recommendations the technical report was approved on 31.03.2019 by the Board. According to that technical report the 1st Revision of the Rajbari Town Protection (Phase II) project was prepared and was approved on 12-06-2019 by MoWR.

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. Those Stakeholders earnestly requested the Honorable Member of Parliament to addressing the problem of river erosion from river Padma. 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: BWDB(Secret)/Plan-1/Mis-3/2002(8th part)/170; dated:25-09-2016 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. On the basis of technical report submitted by committee, the project was prepared

♦ **Appraisal:**

PEC meeting was held on 25-11-2015 in Planning Commission. As per decision of PEC meeting the DPP was corrected & sent to the ECNEC for approval the above project and finally the project was approved by the ECNEC on 24-08-2017.

- ♦ **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 24/08/2017 and 1st Revised DPP was approved by MoWR on 12/06/2019, No Cost Time Extension was approved on 28/06/2021 and Inter Item Cost Adjustment was approved by MoWR on 22/06/2022.

- ♦ **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 implementation 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.

- Ensuring the safeguard from river bank erosion to existing Flood Control Embankment of Faridpur-Barisal FCD project(Rajbari Unit) , vast argiculturable lands and other

public and private properties valued approximate Tk. 173495.00 lakh under rajbari Sadar Upazila in the District of Rajbari are protected from the erosion of right bank of Padma River.

- Ensuring flood safeguard to Rajbari Town, Rajbari Sadar Upazilla in the District of Rajbari from the devastation flood and river erosion of Padma River by execution of 4.500km new protective work, 2.500 km repair/reconstruction work, 1.613 km rehabilitation work and 8.300 km Padma River deredging work along the vulnerable river bank.
- Protection of surrounding community from inundation during monsoon period.

4.4.2. Indirect

- Safety of human livelihood and properties.
- 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)

Project Management	: N/A.
Project Director	: N/A.
Land Acquisition	: N/A.
Procurement	: N/A.
Consultancy	: N/A.
Contractor	: N/A.
Manpower	: N/A.
Law & Order	: N/A.
Natural calamity	: Severe change in River Morphology and River-bed level of Padma River along the project area causing devastating damages to on-going work during the implementation of the project which Resulted in inclusion of emergency work items during RDPP and Inter-Item Cost Adjustment.
Project financing, allocation and release	: Affected during the FY 2019-2020, due to COVID-19 situation.
Design formulation/approval	: Change in design concept during implementation period.
Project aid disbursement and re-imbursement	: N/A.
Mission of the development partners.	: N/A.
Time & Cost Over-run	: Time & Cost over-run due to increased scope of work in 1 st RDPP and Inter Item Cost Adjustment and due to financial constraints during the COVID-19 situation.
Project Supervision/Inspection	: N/A.
Delay in Decision	: N/A.
Transport	: N/A.
Training	: N/A.
Approval	: N/A.
Others	: N/A.

06. Remarks & Recommendations of the Project Director:

Before the implementation of this project, valuable public and private owned properties including agricultural land of Char Selimpur, Goder Bazar, Sonakandar, Lalgola and Urakanda area of Mizanpur and

Barat Union, Upazilla: Rajbari Sadar, Dist: Rajbari were at risk of threatening river erosion. As a result, people living in that community would become homeless and jobless. In this context the accomplished project become justified to save the living community from the severe river erosion.

The main objective of the project was to protect the existing Flood Control Embankment of Faridpur-Barisal FCD project(Rajbari Unit), vast agricultural lands and other public and private properties valued approximate Tk.173495.00 lakh under Rajbari Sadar Upazila in the District of Rajbari from the erosion of right bank of Padma River by execution of 4.500 km new protective work, 2.500 km repair/reconstruction work , 1.613km rehabilitation work and 8.300 km river deredging work under this project. Due to implementation of the project, physical safety and sense of security among the project people have been developed, resulting in enhanced investment in housing and commercial buildings, enhanced investment in business and development work and have also caused positive impacts on agriculture and fish resources production and land prices. These all did shall cause enhanced opportunity of employment and poverty alleviation.

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

The adverse effect of climate change is mitigated through the conservation of sustainable terrestrial ecosystem. With the help of char and river dredging work, the Padma River has regained its wider shape and increased conveyance capacity and this will install a safeguard against the extinction of biodiversity.

The commencement and completion of the project is schedule to be accomplished in 2017-2018 to 2021-2022 as per approved revised Revised DPP (Inter Item Cost Adjustment) and accordingly implementation has been achieved.

Thus, the implementation of the project endorses a strong positive impact on socio economic life by fulfilling the SDGs (Goal – 1. End Poverty in all its form and hunger, Goal-2. Achieve food security and improved nutrition and promote sustainable agriculture, Goal-11. Make cities and human settlements inclusive, safe, resilient and sustainable, Goal-13. Take urgent action to combat climate change and its impact. 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 Redaction 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 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 to 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.

During the implementation of this project members of different committees & monitoring authorities visited project site and gave their opinions which has helped implementation of the project.

After successful implementation of this project, adjacent area has been protected from severe erosion of the river Padma. Socio-economic condition of the people has been improved and will help to reduce the poverty. Scope of new jobs & works has been created. The safety of human livelihood and properties has also been improved.

Recommendations:

- Bathymetric Survey has to be conducted during monsoon & after monsoon to investigate river bed level Condition of dumping materials and Launching Apron.
- Regular/Periodic maintenance of the implemented 7.00 km revetment work is required for more sustainability of the project from O&M Budget.
- Administrative steps should be taken on regular basis to address unplanned and illegal Sand-Mining from the river bed.
- According to the present River-Morphology and River bed condition of Padma River along the project area, Km 53.200 to Km 57.200 = 4.00 km area is subjected to future river bed erosion threats according to survey reports of IWM. Therefore, proper measures should be taken to strengthen that area to keep it risk free from any subsequent severe river erosion of the critical Padma River.

Date: 22/09/2020

Signature and seal of the Project Director/Manager

Syed Shahidul Alam
Superintending Engineer
Faridpur O & M Circle
BWDB, Faridpur
&
Project Director.

07. Remarks/ Comments of Agency Head.

The implementation of the project helps to protect the existing flood control embankment of the Faridpur-Barsial FCD project (Rajbari Unit). Vast agricultural land and other public and private property worth approximately 17,350 million taka from right bank erosion of the mighty Padma River. As the risk of river bank erosion is mitigated, people are investing in housing, commercial building, and business in the project area. During the implementation phase, IMED, MoWR & BWDB officials as well as representatives from stakeholder agencies visited the project area from time to time. That has ensured greater quality & transparency in implemented projects.

Date.....

 28/09/2022
Signature and Seal
(FAZLUR RASHID)
Director General
BWDB, Dhaka.

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

The main objective of the project is to protect the existing Flood Control Embankment of Faridpur-Barisal FCD project (Rajbari Unit), vast agricultural lands and other public and private properties valued approximately Tk. 173495.00 lakh under Rajbari sadar Upazila in the District of Rajbari from the erosion of right bank Padma River by execution of 4.500 km new protective work, 2.500 km repair/reconstruction work, 1.613 km rehabilitation work and 8.300 km river dredging work under this project. The commencement and completion of the project was done within stipulated time frame according to the revised DPP. Due to severe flood in 2017-18 and 2018-19, the 2.500 km existing protective work was damaged which required repair and reconstruction so the project was revised and that's the reason of cost over run. Proper maintenance and monitoring should be ensured so that the outcome of the project sustains effectively.

Date.....

Signature and Seal.

