

BANGLADESH WATER DEVELOPMENT BOARD



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

Name of the Project: Protection Work from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District (1st Revised).

PROJECT PERIOD: JULY 2018 TO JUNE 2022

DIVISION : Bhola O&M Division-II, BWDB, Charfession, Bhola
CIRCLE : Bhola O&M Circle, BWDB, Bhola
ZONE : Southern Zone, BWDB, Barishal

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

PROJECT COMPLETION REPORT: IMED 04/2003 (REVISED)

A. PROJECT DESCRIPTION:

01. Name of Project : Protection work from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola 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: Charfession, District: Bhola.

05. Objectives of the Project :

The main objective of the project:

- Flood Protection & Reduction of Riverbank Erosion by Bank Revetment Work & Protection of Embankment Slope;
- To Increase Conveyance Capacity of the River, Ensuring Optimum Navigation Capacity, Development of Hilsha Sanctuary by River Dredging;
- To save Charfession Upazila including all immovable public and private properties approximate value of which Tk. 309,825.00 Lakh by implementation of river-bank-protection-work.

06. Estimated Cost:

(In Lakh Taka)

	Original	Latest Revised (1 st)
a) Total	52336.15	48574.48
b) Taka	52336.15	48574.48
c) Foreign Currency	-	-
d) Project Aid	-	-
e) RPA	-	-

07. Date of Approval:

PCP	PP
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a) Original : - 20/03/2018

b) Inter item cost adjustment: - 07/02/2021

c) Latest Revised (1st) : - 12/06/2022

08. Implementation period :

	Date of Commencement	Date of Completion
a) Original	July, 2018	June, 2022
b) Latest Revised (1 st)	July, 2018	June, 2022
c) Actual	July, 2018	June, 2022

09. Financial Agreement (source wise):**9.1 Status of Loan / Grant:****a) Foreign Financing:**

Source(s)	Currency as per Agreement	Amount in US\$ (Million)	Nature (Loan/Grant Supplier's credit)	Date of Agreement	Date of Effectiveness	Date of Closing	
						7	8
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
48574.48	-	48574.48	-

9.2 Utilization of Project Aid: (Source wise)

(In Million)

	Total Amount		Actual Expenditure		Unutilized Amount	
	In US \$	In Local Currency	IN US \$	In Local Currency	In US \$	In Local Currency
1	2	3	4	5	6	7

..... N/A.

9.3 Reimbursable Project Aid (RPA)

(In Lakh Taka)

RPA Amount		Amount Spent	Amount claimed	Amount Reimbursed	Remarks.
As Per DPP	As per Agreement				
1	2	3	4	5	6

..... N/A.

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

Implementation Period as per DPP		Actual Implementation Period	Time Over Run (% of Original Implementation Period)	Remarks
Original	Latest Revised			
1	2	3	4	5
July/2018 to June/2022	July/2018 to June/2022	July/2018 to June/2022	-	-

02. Cost of the Project:

(In Lakh Taka)

Description	Estimated Cost		Actual Expenditure	Cost Over-run (% of original cost)	Remarks
	Original	Latest Revised			
1	2	3	4	5	6
Total	52336.15	48574.48	48258.50	(- 7.79%)	As per recommendation of Consultant team Institute of Water Modelling (IWM), volume & extent of Dredging work has been finalized & accordingly cost was decreased. Hence the cost of the project has been decreased.
Taka	52336.15	48574.48	48258.50		
PA	-	-	-		

03. Project Personnel: Project work has been implemented by existing manpower of Bhola O&M Division-II, BWDB, Charfession, Bhola. There is no provision of project personnel recruitment on this project.

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 manpower of the implementing agency were deployed during execution of the project.					
Staff (s)						
Total						

..... Nil

04. Training of project Personnel (Foreign/Local): No provision of any sort of training in this project.

Field of Training /Study tour/work shop/ 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 Nil

b) Local Nil

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

(In Lakh Taka)

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
Revenue Component:						
Travel Allowance	item	10.00	100%	10.00	100.00%	
Petrol and Lubricant	item	10.00	100%	9.99	99.90%	
Printing & Binding	item	1.00	100%	0.88	88.00%	
Office Stationery	item	1.50	100%	1.50	100.00%	
Seal and Stamps	item	1.50	100%	1.50	100.00%	
Exposure Visit	item	1.00	0.00%	0.00	0.00%	Due to Covid-19 Situation, Exposure visit has been cancelled.
Casual Labor Wages	item	10.00	100%	10.00	100.00%	
Consultant (Model Study)	item	200.00	100%	199.00	99.50%	
Honorarium/Fee/Remuneration	item	10.00	100%	10.00	100.00%	
Mid-Term Evaluation	item	10.00	100%	10.00	100.00%	
Survey	item	8.00	100%	7.00	87.50%	
Repair & Maintenance Motor vehicle	item	5.00	100%	5.00	100.00%	
Sub-Total (A) :		268.00		264.87	98.83%	
Capital Component:						
Acquisition of Assests						
Motorcycle	Nos	3.50	3	3.50	3	
Engineering Equipment						
Eco-Sounder	Nos	20.00	1	20.00	1	
Construction of works:						
Slope protection of embankment (Polder no-56/57 from km. 150.000 to km 153.000 = 3000 m)	m	6885.56	3000	6808.98	3000	

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
Bank Protective work (Polder no-56/57 from km. 150.000 to km. 153.200 = 3200 m)	m	16340.38	3200	16374.68	3200	
Tentulia River Dredging (Polder no-56/57 from km. 146.500 to km. 152.00 & km. 153.000 to km. 158.600 = 11.100 km.)	Km./Cum	19632.34	11.100 km./104.28 Lakh Cum	19440.19	11.100 km/103.13 Lakh Cum	As per recommendation of Consultant team Institute of Water Modelling (IWM), volume & extent of Dredging work has been finalized & accordingly cost was decreased. Hence the cost of the project has been decreased.
Construction of Drainage Structure (6 Nos: 2 nos 2-V, 4 nos 1-V Drainage Cum Flushing Regulator & 1 Surface Drainage Outlet Cum Boat Pass; Total 7 Nos)	Nos	5125.81	7	5123.28	7	
Construction of Irrigation Inlet	Nos	223.89	6	223.00	6	
Sub-Total (B) :		48231.48		47993.63		
(C) Physical Contingency	L.S.	25.00	L.S.	0.00	-	
(D) Price Contingency	L.S.	50.00	L.S.	0.00	-	
Total (A+B+C+D):		48574.48	100%	48258.50	100%	

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. Kaisar Alam Executive Engineer 43,000-69,850 (Grade-5th)	-	Yes	Yes	29/05/2018	11/09/2019	-
Hasan Mahmud Executive Engineer 43,000-69,850 (Grade-5th)	-	Yes	Yes	11/09/2020	till to date	-

07. Procurement of Transport (in nos.):

Type of Transport	Number as per DPP	Procured with date	Transferred to Transport Pool with date	Transferred to O&M with date	Condemned/ damaged with date	Remarks.
1	2	3	4	5	6	7
Motor Cycle	3	30/06/2019	-	Bhola O&M Division-II, BWDB, Charfession, Bhola. 01/07/2022	-	Are being Used by Sectional Officers for Monitoring & Supervision of the Project works. (Bhola-ha-12-1468, Bhola-ha-12-1760, Bhola-ha-12-1787).

08. Procurement of Goods, Works and Consultancy Service.

08.1. Goods & Works of the Project Costing above Tk. 200.00 lakh and Consulting above 100.00 lakh.

Description of procurement (goods/work/consultancy) as per Bid document	Tender/Bid/Proposal Cost (in Lakh Taka)		Tender/Bid/Proposal		Date of completion of works /services and supply of goods.	
	As per DPP	Contract value	Invitation date	Contract signing/LC opening date	As per contract	Actual
1	2	3	4	5	6	7
Mathematical Model Study for Integrated Development and Sustainable Management of Tentulia River (Package No. BS-I).	Original: 200.00 Revised: 200.00	199.00	09/01/19	04/03/2019	30/06/2020	30/06/2020
Slope Protection of Embankment and River Bank Protective Work from Km 150.000 to Km 150.300 = 300 m of Polder 56/57 in c/w "Protection from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District" during the year 2018-2019. (Package No. BBP-01/2018-2019).	Original: 2243.02 Revised: 2215.06	2215.06	1 st : 11-07-18 2 nd : 12-11-18	11-01-19	30-06-2020	20-06-2021
Slope Protection of Embankment and River Bank Protective Work from Km 150.300 to Km 150.600 = 300 m of Polder 56/57 in c/w "Protection from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District" during the year 2018-2019. (Package No. BBP-02/2018-2019).	Original: 2243.02 Revised: 2233.20	2233.20	1 st : 11-07-18 2 nd : 30-09-18	12-11-18	30-06-2020	12-12-2021
Slope Protection of Embankment and River Bank Protective Work from Km 150.600 to Km 150.900 = 300 m of Polder 56/57 in c/w "Protection from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District" during the year 2018-2019. (Package No. BBP-03/2018-2019).	Original: 2243.02 Revised: 2230.88	2230.88	1 st : 11-07-18 2 nd : 30-09-18	16-11-18	30-06-2020	25-06-2021
Slope Protection of Embankment and River Bank Protective Work from Km 150.900 to Km 151.200 = 300 m of Polder 56/57 in c/w "Protection from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District" during the year 2018-2019. (Package No. BBP-04/2018-2019).	Original: 2243.02 Revised: 2220.18	2220.18	1 st : 11-07-18 2 nd : 30-09-18	08-11-18	30-06-2020	15-12-2021

Description of procurement (goods/work/consultancy) as per Bid document	Tender/Bid/Proposal Cost (in Lakh Taka)		Tender/Bid/Proposal		Date of completion of works /services and supply of goods.	
	As per DPP	Contract value	Invitation date	Contract signing/LC opening date	As per contract	Actual
1	2	3	4	5	6	7
Slope Protection of Embankment and River Bank Protective Work from Km 151.200 to Km 151.500 = 300 m of Polder 56/57 in c/w "Protection from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District" during the year 2018-2019. (Package No. BBP-05/2018-2019).	Original: 2243.02 Revised: 2227.34	2227.34	1 st : 11-07-18 2 nd : 30-09-18	08-11-18	30-06-2020	21-12-2021
Slope Protection of Embankment and River Bank Protective Work from Km 151.500 to Km 151.800 = 300 m of Polder 56/57 in c/w "Protection from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District" during the year 2018-2019. (Package No. BBP-06/2018-2019).	Original: 2243.02 Revised: 2220.66	2220.66	1 st : 11-07-18 2 nd : 30-09-18	14-11-18	30-06-2020	25-06-2021
Slope Protection of Embankment and River Bank Protective Work from Km 151.800 to Km 152.100 = 300 m of Polder 56/57 in c/w "Protection from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District" during the year 2018-2019. (Package No. BBP-07/2018-2019).	Original: 2243.02 Revised: 2234.23	2234.23	1 st : 11-07-18 2 nd : 30-09-18	08-11-18	30-06-2020	10-12-2021
Slope Protection of Embankment and River Bank Protective Work from Km 152.100 to Km 152.400 = 300 m of Polder 56/57 in c/w "Protection from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District" during the year 2018-2019. (Package No. BBP-08/2018-2019).	Original: 2243.02 Revised: 2237.74	2237.74	1 st : 11-07-18 2 nd : 30-09-18	08-11-18	30-06-2020	20-12-2021
Slope Protection of Embankment and River Bank Protective Work from Km 152.400 to Km 152.700 = 300 m of Polder 56/57 in c/w "Protection from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District" during the year 2018-2019. (Package No. BBP-09/2018-2019).	Original: 2243.02 Revised: 2168.41	2168.41	1 st : 11-07-18 2 nd : 30-09-18	08-11-18	30-06-2020	25-06-2021

Description of procurement (goods/work/consultancy) as per Bid document	Tender/Bid/Proposal Cost (in Lakh Taka)		Tender/Bid/Proposal		Date of completion of works /services and supply of goods.	
	As per DPP	Contract value	Invitation date	Contract signing/LC opening date	As per contract	Actual
1	2	3	4	5	6	7
Slope Protection of Embankment and River Bank Protective Work from Km 152.700 to Km 153.000 = 300 m of Polder 56/57 in c/w "Protection from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District" during the year 2018-2019. (Package No. BBP-10/2018-2019).	Original: 2243.02 Revised: 2130.54	2130.54	1 st : 11-07-18 2 nd : 30-09-18	08-11-18	30-06-2020	15-11-2021
River Bank Protective Work from Km 153.000 to Km 153.200 = 200 m of Polder 56/57 in c/w "Protection from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District" during the year 2018-2019 (Package No. BBP-11/2018-2019).	Original: 1031.65 Revised: 1107.70	1107.70	12-07-18	08-11-18	30-06-2020	30-06-2020
Construction of Kacharir Khal Drainage Cum Flushing Regulator (2V-1.5mX1.8m) and Surface Darianage Outlet with Boat Pass at Dyer Khal at Ch. Km=151.000 of polder no- 56/57 and Ch. Km=12.700 at Char Kukri-Mukri Union respectively of Charfession Upazila in Bhola District (Package No. WCS-01-L1/2020-2022)	*Revised: 2485.85	2485.85	30-10-2020	22-02-21	30-04-2022	30-06-2022
Construction of Bebajia Khal Drainage Cum Flushing Regulator (2V-1.50 m X 1.80 m) & Porir Khal Drainage Cum Flushing Regulator (1V-1.50 m X 1.80 m) at Km. = 7.114 and Km.=9.700 respectively at Char Kukri-Mukri Union of Charfession Upazila in Bhola District (Package No. WCS-01-L2/2020-2022)	*Revised: 1190.17	1190.17	30-10-2020	22-02-21	30-04-2022	20-06-2022
Construction of Dakatiar Khal Drainage Cum Flushing Regulator (1V-1.50M X 1.80M), Rabbir Khal Drainage Cum Flushing Regulator (1V-1.50M X 1.80M) & Bangalir Khal Drainage Cum Flushing Regulator (1V-1.50mX1.80m) at Ch. Km=3.560, Km=4.220 & Km=12.150 respectively at Char Kukri-Mukri Union of Charfession Upazila in Bhola District (Package No. WCS-01-L3/2020-2022)	*Revised: 1449.79	1449.79	30-10-2020	22-02-21	30-04-2022	20-06-2022
Construction of 6 Nos Irrigation Inlet at Char Kukri-Mukri Union of Charfession Upazila in Bhola District (Package No. WCS-01-L4/2020-2022)	*Revised: 223.89	223.89	30-10-2020	22-02-21	30-04-2022	15-06-2022

Description of procurement (goods/work/consultancy) as per Bid document	Tender/Bid/Proposal Cost (in Lakh Taka)		Tender/Bid/Proposal		Date of completion of works /services and supply of goods.	
	As per DPP	Contract value	Invitation date	Contract signing/LC opening date	As per contract	Actual
1	2	3	4	5	6	7
Dredging of Tentulia River from ch.km. 146.500 to km. 151.100 = 4.600 km. in c/w "Protection from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District" during the year 2020-2021 (Package No.DTR-01-L1/2020-2021).	**Revised: 9999.62	9999.62	16-11-2020	08-03-21	30-04-2022	26-06-2022
Dredging of Tentulia River from ch.km. 151.100 to km. 152.000 & km. 153.000 to km. 158.600 total length 6.500 km. in c/w "Protection from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District" during the year 2020-2021 (Package No.DTR-02-L1/2020-2021).	**Revised: 9632.72	9632.72	16-11-2020	09-03-21	30-04-2022	26-06-2022

*There was a provision for the construction of drainage and irrigation structures under one package (Value: 2388.82 Lakh) in the original DPP. It was decided in PSC meeting to implement the work in 4 lots for speedy implementation within stipulated time.

**Dredging work was Divided into 6 packages (Value: 5269.76, 7191.57, 3742.21, 3066.32, 4536.69 & 2128.45 Lakh respectively) as per original DPP. It was decided in PSC meeting to implement the work in 2 packages for speedy implementation by more capable contractors. Accordingly, the DPP was revised.

08.2. Use of Project Consultant (s) (Foreign / Local): Institute of Water Modelling (IWM)

Name of the field	Approved man month		Actual man month utilized	Remarks
	As per PP	As per contract.		
1	2	3	4	5
a) Local:				
Team Leader/Senior Coastal Morphologist	4	4	4	
Coastal Morphologist/ Morphological Modeller	7	7	7	
Hydrodynamic Modeller	3	3	3	
Planning and Design Specialist	4	4	4	
Sociologist	4	4	4	
Survey Specialist	4	4	4	
GIS Specialist	3	3	3	
Data Analyst	6	6	6	

b) Foreign Nil

09. Construction / Erection / Installation Tools & Equipment:

Description of items	Quantity (As per DPP)	Quantity procured with date	Transferred to O&M with date	Deposed off as per rule with date	Balance	Remarks
1	2	3	4	5	6	7
Eco-sounder	1	30/06/2019	Bhola O&M Division-II, BWDB, Charfession, Bhola. 01/07/2022	-	1	Is being used for bathymetry survey for the monitoring of implemented work

C. FINANCIAL AND PHYSICAL PROGRAMME:

11. (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	PA	Physical %	Total	Taka	PA.	Physical %
1	2	3	4	5	6	7	8	9
2018-19	7757.25	7757.25	-	14.82%	7097.00	7097.00	-	14.61%
2019-20	12065.75	12065.75	-	23.06%	7292.00	7292.00	-	15.01%
2020-21	18066.25	18066.25	-	34.52%	11000.00	11000.00	-	22.65%
2021-22	14446.90	14446.90	-	27.60%	23185.48	23185.48	-	47.73%
Total	52336.15	52336.15	-	100.00%	48574.48	48574.48	-	100.00%

11. (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
2018-19	7100.00	7100.00	-	14.61%	7100.00	7095.99	7095.99	-	12.00%
2019-20	12800.00	12800.00	-	23.74%	7295.00	7291.86	7291.86	-	30.00%
2020-21	15000.00	15000.00	-	22.65%	11000.00	11000.0	11000.0	-	19.00%
2021-22	22900.00	22900.00	-	39.00%	22900.00	22870.65	22870.65	-	39.00%
Total	57800.00	57800.00	-	100.00%	48295.00	48258.50	48258.50	-	100.00%

*During FY 2019-2020 & 2020-2021 funds weren't released as allocated.

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Objective as per DPP	Actual achievement	Reasons for shortfall, if any.
(a) Flood Protection & Reduction of Riverbank Erosion by Bank Revetment Work & Protection of Embankment Slope;	Permanent Embankment with CC block ensured protection against flood; Bank has been stabilized through revetment work; accordingly, erosion has been stopped.	No shortfall
(b) To Increase Conveyance Capacity of the River, Ensuring Optimum Navigation Capacity, Development of Hilsha Sanctuary by River Dredging;	Dredging work of submerged char adjacent to mainland has increased the conveyance capacity as well as navigation capacity of the channel and also, helped in development of Hilsha sanctuary.	
(c) To save Charfession Upazila including all immovable public and private properties approximate value of which Tk. 309,825.00 Lakh by implementation of riverbank protection work.	Sustainable embankment, well designed bank revetment work & dredging of submerged chars ensured protection of Bokshi Launchghat to Baburhat Launchghat area of Charfession upazila from engulfing into Tentulia.	



E. BENEEFIT ANALYSIS :

01. Annual Out-put:

Items of out-put	Unit	Estimated quantity expected at full capacity	Actual quantity of out-puts during the 1 st year of operation at full capacity (or during real production for newly completed project)
1	2	3	4
Ensured safeguard from river bank erosion:			
Water Control Structure	nos.	5	5
Flood Control Embankment	km.	10	10
Kacha/Semi pucca/pucca house	nos.	950	950
Garden	nos.	7	7
Agricultural Lands	hac.	3000	3000
Ponds/Fisheries	nos.	450	450
Semi Pacca Road	nos.	87	87
Pourashava Bhaban	nos.	1	1
Ice Factory	nos.	15	15
Culvert Box	nos.	35	35
Upazila Health Complex	nos.	1	1
Police Station	nos.	1	1
Upazila Complex	nos.	1	1
Madrasha/High School	nos.	32	32
Govt. & Non Govt. Primary School	nos.	32	32
College	nos.	16	16
Village Market	nos.	15	15
Government & Private offices	nos.	4	4
Post Office	nos.	1	1
Crop Saved	m.ton	1500	1500
Cyclone Shelter	nos.	10	10
R&H, LGED, Pourasava Road	km.	60	60

02. Cost / Benefit:

Item	Estimated	Actual
(1) Benefit cost of the project		It will be evaluated later by concern directorate of BWDB & IMED.
(i) Financial	-	
(ii) Economic	2.95:1.00	
(2) Internal rate of return		
(i) Financial	-	
(ii) Economic	35.44%	

(3) Please give reason for shortfall, if any, between the estimated and actual benefit: No Shortfall.



F. MONITORING AND AUDITING.

01. Monitoring:

Name & Designation of the inspecting official	Date of inspection	Identified Problems	Recommendations
1	2	3	4
Ministry/Agency :			
Zaheed Farooque, MP Honorable State Minister, MoWR	04/09/2020	No major problems identified	Instructed to follow approved designs for construction works & to complete within the stipulated time.
Kabir Bin Anwar Senior Secretary, MoWR.	17/03/2021	No major problems identified.	Project must be completed within stipulated time. Dredged earth must be managed in planned way to reclaim land.
Alam Ara Begum Additional Secretary (Admin), MoWR	28/03/2021	No major problems identified.	Project must be completed within stipulated time.
Mahmudul Islam Additional Secretary, MoWR	24/10/2020	No major problems identified.	Project Progress was satisfactory
Mantu Kumar Biswas Additional Secretary (Planning), MoWR	24/10/2020	No major problems identified.	Project Progress was satisfactory
S M Rejaul Mostofa Kamal Joint Secretary, MoWR.	24/10/2020	No major problems identified.	Project Progress was satisfactory
MD Toufiqul Islam Deputy Chief, MoWR.	24/10/2020	No major problems identified.	Project Progress was satisfactory
Abul Kalam Azad Deputy Chief, Planning Commission	24/10/2020	No major problems identified.	Project Progress was satisfactory
MD. Mahmud Hasan Deputy Secretary, MoWR.	04/12/2020	No major problems identified.	Project must be completed within stipulated time.
BWDB:			
Md.Sajidur Rahman Sardar Chief Engineer, Southern Zone, BWDB, Barisal.	Several times	No major problems identified.	Instructed to follow approved designs for construction works.
Zulfiqur Ali Hawlader Chief Engineer, Southern Zone, BWDB, Barisal.	Several times	No major problems identified.	Instructed to follow approved designs for construction works.
Md. Harun-Ar-Rashid Chief Engineer, Southern Zone, BWDB, Barisal.	Several times	No major problems identified.	Instructed to follow approved designs for construction works & to complete within the stipulated time.
Md. Nurul Islam Sarker Chief Engineer, Southern Zone, BWDB, Barisal.	Several times	No major problems identified.	Instructed to follow approved designs for construction works & to complete within the stipulated time.
Zahir Uddin Ahmed Superintending Engineer, Bhola O&M Circle, BWDB, Bhola.	Several times	No major problems identified.	Approved design must be followed.
Md. Abdul Hannan Superintending Engineer, Bhola O&M Circle,	Several times	No major problems identified.	Approved design must be followed.

Name & Designation of the inspecting official	Date of inspection	Identified Problems	Recommendations
1	2	3	4
BWDB, Bhola.			
Md. Babul Akhter Superintending Engineer, Bhola O&M Circle, BWDB, Bhola.	Several times	No major problems identified.	Instructed to follow approved designs for construction works & to complete within the stipulated time.
IMED :			
Muhammad Shahadat Hossain Director, IMED	17/12/2021	No major problems identified.	Project must be completed in time
Md. Afzal Hosen Director, IMED.	24/10/2020	No major problems identified.	Project must be completed in time
Md. Mahmudul Hasan, PhD Deputy Director, IMED	17/12/19	No major problems identified.	Project must be completed in time
Lasmi Chakma Assistant Director, IMED.	20/03/19	No major problems identified.	Project must be completed in time
Others:			
Abdullah Al Islam Jakob. Member of Parliament, Bhola-4.	Several times	No major problems identified.	Project Progress was satisfactory

2.0 Auditing during and after Implementation:

2.1. Internal Audit:

Period of Audit	Date of submission of Audit Report.	Major findings/ objections	Whether objection resolved or not.
1	2	3	4
No internal Audit			

2.2. External Audit:

Audit Period	Date of submission of Audit Report.	Major findings/objections	Whether objection resolved or not.
1	2	3	4
2018-19	29/01/2020	No objection arisen	N/A
2019-20	31/01/2021	No objection arisen	N/A
2020-21	30/09/2021	Insurance Premium related Objection.	Answer is submitted through Competent Authority and mitigation of the objection is under process.
		Honorarium of Midterm Evaluation	Answer is submitted through Competent Authority and mitigation of the objection is under process.
2021-22	Yet to be conducted		

G. DESCRIPTIVE REPORT

General Observations/Remarks of the Project on:

1.1 Background

Bhola is the largest coastal island of Bangladesh. The island was formed approximately in 1235 AD by the alluvium of River Meghna and Ganges and wastes carried through those rivers. Bhola is the place of more than 2 million inhabitants with an area of 3403.48 sq. km. North of this island is Barishal district, Patuakhali district on the west side and Noakhali district on the east. It consists of 7 Upazilas, 66 Unions, 381 Mauzas and 473 villages. Polder No. 56/57, which is the main protection embankment of Bhola, includes 6 of the 7

Upazilas namely Bhola Sadar, Daulatkhan, Borhanuddin, Charfasson, Lalmohan and Tazumuddin. This zone in southern Bangladesh adjoining the Bay of Bengal is characterized by a delicately balanced natural morphology of an evolving flat delta subject to very high tides and frequent cyclones coming in from the Bay of Bengal encountering very large sediment inflows from upstream. This part of coastal zone, in its natural state, used to be subject to inundation by high tides, salinity intrusion, cyclonic storms and associated tidal surges. However, Bhola is blessed with vast natural resources like fisheries and abundant agricultural crops and natural gas.

During 1963, the island was protected with 250 km sea-dyke along with 23 regulators under Coastal Embankment Project to convert this area into permanent agricultural lands. The polder in this area is enclosed on all sides by dykes or embankments, separating the land from the main river system and offering protection against tidal floods, salinity intrusion and sedimentation. The polders were designed to keep the land safe from daily tide to allow agriculture activities. Without embankments the coastal communities would be exposed to diurnal tidal fluctuations. As a result of polderization and developed irrigation facilities in the area by excavation of irrigation canal the crop production was increased and the yielding of paddy increased from 1.26 MT/Ha to 5.00 MT/Ha. Development of polderization has benefitted the area with very rapid increase in agricultural products, provided security against cyclonic deluge and socio-economic improvement. The pace of infrastructural development rose very sharply based on protection from the devastating natural calamities of flood and cyclone. People become very happy producing more crops and the area has been saved from flood/tidal surge and saline water intrusion.

Bhola is surrounded by major branches of the Lower Meghna, which carries the combined flow of the Ganges, Brahmaputra and Meghna Rivers. The combined flow of these three rivers passes beside Bhola district and falls into Bay of Bengal. During the tectonic uplift of Madhupur plate at 1764, course of Bhrammaputtra River was changed and the river started to flow through new course named Jamuna. Jamuna fell into the River Padma adjacent to Aricha of Manikganj district. In course of time Jamuna became wider and whole discharge of Brahmaputra River started to flow through this newly born channel. As a result, River Padma got huge discharge of the river Jamuna and also changed its course. Middle part of River Padma then connected to river Meghna adjacent to Chandpur district through a connecting channel and started to flow through it. Therefore, discharge of Padma through Arialkhan to Tentulia reduced in course of time and lower Meghna got the combined flow of river Jamuna, Ganga/Padma and Meghna itself. As a result, west Shahbazpur channel of Meghna River become wider day by day and east bank of Bhola district started to erode severely. The physical setting of the Bhola Island has been changed remarkably over last 200 years. Yearly average erosion rate along the unprotected west bank of Bhola district is about 60-100 meters. The western coast of Bhola Island has been suffering from devastating erosion.

During monsoon joint actions like the upland pressure, tidal current, cyclone, wave action, etc. cause such massive erosion endangering the fertile agricultural lands, social overhead capital like schools, colleges, Govt. and private installations, communication infrastructures, hospital, etc. of the locality. The impact of land erosion in the Bhola Island is severe and devastating from economic, environmental, social and cultural perspectives. The Island is directly exposed to Bay of Bengal and prone to cyclonic storm surge. Over the years, the area has been suffering from number of severe cyclones. Tropical Cyclone during 1970, which is ranked as Category-4 cyclone hit the Bhola Island. Recent cyclones brought substantial damage to the embankments and threatened the integrity of the coastal polders. Embankment breaching due to cyclones have caused the coastal polders to suffer from salinity intrusion which have led to large scale environmental, social and economic degradation.

Due to continuous river erosion, retired embankments are often built under Non-Development Revenue budget. Most of the retired embankments are collapsed again during the monsoon season due to wave action, which needs to be repaired on urgent basis every year. As a result, government has to spend huge money

every year. On the other hand, the families affected by the erosion do not permanently build houses as they are on the brink of breakdown. As a result, the temporary construction of raw buildings on the banks of the river does not give them proper civic benefits. Living in unhealthy, messy environment including their children, all suffer from various malnutrition disorders. Due to the breakdown, they often have financial problems due to relocation of the premises. That is why they borrowed from various NGOs and gradually became debt-ridden. In this way the vicious cycle of poverty revolves around the lives of the people in the project area. As a result, thousands of people become homeless and refugees, losing their homes, land and livelihoods and face high vulnerabilities in terms of access to food, employment, income, water and health service.

Within the time span of 2010 to 2016 severe erosion has been observed at Bokshi Launchghat of Char Kalmi & Baburhat Launchghat of Narzul Nagar union of Charfession Upazila. Submerged Char adjacent to bank line expedited the erosion process to larger extent.

Char Kukri-Mukri, an island under Charfession upazila is located at the most southern part of Bhola District. It is bounded by the Meghna to the east, the Bay of Bengal to the south, the Tentulia to the west and the Buragauranga river to the north. It is the place of more than 15 thousand inhabitants with an area of 1119 ha. Due to the location of the estuary of the Meghna, the entire area submerged in saline water at high tide. As a result, there was no end to the misery of the people of that area. On 11-November'2010, during inaugural programme of 'Digital Union Information and Service Center' through video conferencing, Hon'ble Prime Minister committed to the construction Flood Control Embankment at Kukri-Mukri Island. In that context, 14.100 km flood Control Embankment has been constructed in FY 2014-2015 funded by 'Climate Change Trust Fund' to protect Char Kukri-Mukri Island from floods, tidal waves, cyclones & improvement of drainage system and irrigation facilities. Although there was a proposal for construction of drainage and irrigation infrastructure to DPP in initial stage, these were later dropped from the DPP due to financial constraints.

In this backdrop, BWDB has taken up the project titled 'Protection from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District' comprising required bank protection work, embankment slope protection work and dredging of the Tentulia River & Construction of drainage and irrigation structure at Char Kukri-Mukri Island on priority basis.

1.2 Justification/Adequacy:

Since the beginning of the emergence of Bhola district, natural disasters like floods, cyclones, tides, river erosion have been coming to the fore. Every year on the western side of the island, about 3-5 sq km of fertile land has been engulfed into the river due to erosion of Tentulia River. Different sections of the embankment constructed under polder 56/57 were affected and engulfed by the river due to continued bank erosion of the area. As a result, thousands of people become homeless and refugees, losing their homes, land and livelihoods and face high vulnerabilities in terms of access to food, employment, income, water and health service. It is anticipated from various research that, due to global warming sea level will rise from minimum 0.60 m to maximum 3.00 m by 2100. Two-thirds of Bangladesh is less than five meters above sea level where Bhola is only 2.40 meter above. By 2050, with a projected 50 cm rise in sea level, Bangladesh may lose approximately 11% of its land, affecting an estimated 15 million people living in its low-lying coastal region. The process of salinization has been exacerbated by rising sea levels. It is obvious based on the available data that, Bhola will be on front-line in the hot list.

The said project area of Charfession upazila had been facing severe river erosion along with presence of vulnerable embankment prone to complete collapse. It is obvious that, without prompt measures, a major

portion of the project area would have been completely engulfed into Tentulia. 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 permanent embankment & dredging of submerged char, safety of vast tract of agricultural lands and other immovable properties total worth of Tk. 309,825.00 lakh has been ensured against river erosion. Hence rationality of the project can be granted as justified.

1.3. Objectives:

The main objectives of this project are-

- Flood Protection & Reduction of Riverbank Erosion by Bank Revetment Work & Protection of Embankment Slope;
- To Increase Conveyance Capacity of the River, Ensuring Optimum Navigation Capacity, Development of Hilsha Sanctuary by River Dredging;
- To save Charfession Upazila including all immovable public and private properties approximate value of which Tk. 309,825.00 Lakh by implementation of river bank protection work.

1.4. Project revision with reasons:

The project named '**Protection from Bokshi Launchghat to Baburhat Launchghat area from the Erosion of Tentulia River including Dredging Work and Flood Protection in Kukri-Mukri Island at Charfession Upazila under Bhola District**' has been approved in ECNEC meeting held on 20-03-2018. The estimated cost of the original approved DPP was Tk.52336.15 lakh.

Construction of 7 numbers drainage structures and 6 numbers irrigation structures were included in approved DPP. DPP's provision for this financial head was Tk. 2388.82 Lakh. In light of 'Bangladesh Delta Plan-2100' considering 100 years return period and climate changes, width of existing embankment at Kukri-Mukri is fixed up 6.00 m instead of 4.30 m and crest level raised to (+) 8.00 m-PWD instead of (+) 6.00 m-PWD. In view of this, design of drainage structure has been reviewed by the concerned design circle of BWDB accordingly. Again, due to increase in material cost of construction, the standard schedule of rate was updated. Therefore, cost required for construction of structure becomes Tk. 5349.62 lakh which was Tk. 2960.80 lakh more than provisions in this sub-head under approved DPP.

In the approved DPP, there was a provision of dredging in Tentulia river of length 10.400 km. and costing was Tk. 25935.00 Lakh. Institute of Water Modeling (IWM) was appointed by BWDB as consultant under DPP to finalize the alignment and extent of dredging works through mathematical model study and subsequently to change/adjust the extent of dredging with the change of hydro-morphological condition of the River. A mathematical model study was conducted and finalized for dredging of length 11.100 km. IWM was engaged in overall monitoring of the field level implementation process and observing the behavior of the dredging alignment compatible with the dynamic characteristics of Tentulia. Revised Contract amount of dredging packages upon successful implementation was Tk. 19632.34 Lakh fulfilling it's goals and objectives. Accordingly savings in this sub-head was Tk. 6302.66 lakh as per original approved DPP.

Therefore additional Tk. 2960.80 lakh required for construction of drainage and irrigation structures were adjusted from dredging through Inter Item Cost Adjustment and Revision of DPP. Upon fulfilment of

projects goal and objectives remaining Tk. 3761.67 lakh from different sub-head has been deducted in the 1st revision of DPP in order to achieve financial progress in coordination with physical progress of the project.

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

The Bank revetment work's design includes a material dumping trench (50% Geotextile Bag+ 50% CC Block) with a width of 28.00 meters. The theme of the design allows gradual launching of the trench over time adjusting to the river nature & gradually there will be a defined protected riverbank slope. It should be noted that 90% of revetment work has been completed within June'2020. It has been observed that an average of 6 to 8 meters out of 28.00 meters trench has been launched to date and the river has started showing stable nature as expected. No abrupt collapse of the trench has been found which is the major unexpected drawback of training dynamic rivers like Tentulia. As the initial shock of the river created due to imposed changes is being nicely counterbalanced by the revetment work, it can be said that the design concept is very much responsive to the hydro-morphological condition of the project area. Embankment slope protection was done by pitching CC Blocks on the riverside slope which is performing well like previously implemented projects. On the other hand, dredging has been performed as per the recommendation and monitoring of consultant team IWM.

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 Tentulia river. 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 the 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 by BWDB to submit a technical report concerning social, economic & environmental impact, the safety of properties & infrastructure, and also sustainability in the project area. The project was prepared based on the technical report submitted by the concerned committee.

◆ Appraisal:

PEC meeting was held on 03-12-2017 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 20-03-2018.

◆ 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 20-03-2018 and 1st Revised DPP was approved by ECNEC on 12-06-2022.

♦ Others (if any): Nil.

4. Analysis of the Post-Implementation situation and result of the project:

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

Yes.

4.2 Programme for use of created-facilities of the project

The stakeholders are taking advantages of the created facilities of the project in passive way. It ensured protection of their homesteads, agricultural lands, business centers. Price of land inside the embankment is hiking in geometric rate which was close to null before implementation of the project.

4.3 O & M Programme of the project.

After complementation 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 Polder no.-56/57. Vast arable lands and other public and private properties valued approximate Tk. 309,825.00 lakh under at Boksi Launchghat of Char Kalmi & Baburhat Launchghat of Narzul Nagar union of Charfession Upazila in the District of Bhola.
- Ensuring flood safeguard to Charfession upazilla in the District of Bhola from the devastation flood of Tentulia River by execution of 3.000 km Retired/Re-Sectioning of Embankment along the vulnerable river bank.
- Protection of surrounding community from inundation during monsoon period.
- Ensuring prevention of saline water ingress & improvement of drainage system and irrigation facilities by execution of 7 nos Drainage Structure and 6 nos irrigation outlet.
- Around 99 hectares of land has been reclaimed from Tentulia riverbed through well planned dredged earth management.

4.4.2. Indirect

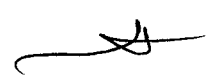
- Safety of human livelihood and properties.
- Improvement of socio-economic condition.

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. . Once the area to be engulfed in the mighty Tentulia river is converting into business center.



People are setting up ice factories, fish bazar and many more. Thus, this project is bringing up positive impact in employment

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

This project on Tentulia river is performing well and good and as per expectation and can be declared as sustainable. Like any other development projects especially as a hydrological project of more numbers of uncertainties, it will require periodic maintenance of the physical structures which is also prescribed in the DPP. Upon ensuring periodic maintenance as per requirement, the life of the project can be extended upto greater extent.

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.

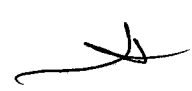
Project Director : N/A.

Land Acquisition : N/A.

Procurement : N/A.

Consultancy : N/A.

Contractor : N/A.



Manpower	: N/A.
Law & Order	: N/A.
Natural calamity	: Project area is located at turbulent coastal area. During implementation period it faced cyclones like Foni, Ampan and Yaas. Due to increased sea level resulting from worldwide global warming issue, high tide occurred with greater frequency more than ever. Moreover, worldwide COVID-19 pandemic squeezed up eligible working time. Still with close monitoring and careful supervision, the project was completed without time over-run.
Project financing, allocation and release	: During FY 2019-20 & 2020-21 funds weren't released as allocated.
Design formulation/approval	: N/A.
Project aid disbursement and re-imbursement	: N/A.
Mission of the development partners.	: N/A.
Time & Cost Over-run	: Was completed within due time with remarkable amount of cost saving upon well completion of project.
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:

The main objective of the project is to protect existing Flood Control Embankment of Polder no.-56/57, vast arable lands and other public and private properties valued approximate Tk. 309,825.00 lakh of Charfession Upazila in the District of Bhola from the erosion of left bank of Tentulia River by execution of 3.200 km. revetment works along the vulnerable riverbank and flood protection of Char Kukri-Mukri Island by constructing of Drainage structure. Due to implementation of the project, physical safety and sense of security among the stakeholders 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 which will cause enhanced opportunity of employment and poverty alleviation.

Objective of this project have direct relevance with the natural objective of attaining self-reliance, generation of rural employment, Poverty alleviation especially for rural poor section, creation of social & environmental balance & building of economic infrastructures for the future generation to sustain due to river erosion mitigation. The commencement and completion of the project is scheduled to be accomplished from July'2018 to June'2022 as per approved DPP and accordingly the project is completed.

The Project is specifically linked with SDGs (Goal-1: End Poverty in all its form End 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 Reduction Strategy. So, Water Sector has a vision for development and management of Water Resources over medium and long term. The vision for water resources sector has been indicated in the declaration of the National Water Policy document of GOB (1999). Vision, incorporated in the document is as follows:

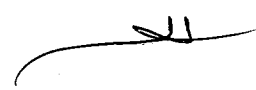
"Ensuring continued progress towards fulfilling the national and MDG goals of development through acquisition of water resources, optimizing its various use, managing resources for poverty reduction and sustainable development for securing their lives and properties from water related disasters".

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

During the implementation of this project, members of different committees & monitoring authorities visited project site and gave their opinions which has helped the implementation of the project within project period. Project was implemented properly following respective design, drawing and specification. The quantity and quality of of the physical works were ensured by Task force committee of BWDB and concerned officials of BWDB.

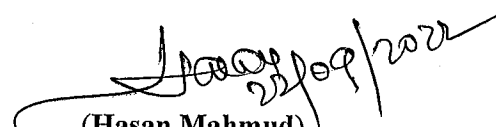
After successful implementation of this project, Charfession upazila and adjacent area has been protected from severe erosion of the Tentulia River. Flood protection & improvement of drainage and irrigation systems has been ensured at Char kukri-Mukri Island. The socio-economic condition of the people of these areas has been improved. Scope of new jobs & works has been created. The safety of human livelihood and properties have also been improved.

It should be mentioned that Project area is located at turbulent coastal area. During implementation period it faced cyclones like Foni, Ampan and Yaas. Due to increased sea level resulting from worldwide global warming issue, high tide occurred with greater frequency more than ever. Moreover, worldwide COVID-19 pandemic squeezed up eligible working time. Still with close monitoring and careful supervision, the project was completed without time over-run as well as cost saving upon well completion of the project with 99 hectares of reclaimed land through well planned dredged earth management policy. It's a remarkable achievement which will be helpful in solving acute land scarcity problem of the Bangladesh. Ministry of Water Resources has been awarded the prestigious **Bangabandhu Public Administration Award'2022** for playing significant role in land reclamation sector.



Recommendation: This project is performing well and good and as per expectation and can be declared as sustainable. Like any other development projects especially as a hydrological project of more numbers of uncertainties, it will require periodic maintenance of the physical structures which is also prescribed in the DPP. Upon ensuring periodic maintenance as per requirement, the life of the project can be extended up to greater extent.

Date


(Hasan Mahmud)
Project Director
&
Executive Engineer,
Bhola O&M Division-II,
BWDB, Charfession, Bhola.

07. Remarks/ Comments of Agency Head.

This project has ensured safeguarding against river erosion to the existing flood control embankment of Polder 56/57. Vast arable lands, and immovable public and private establishments worth 30,983 million taka in Charfession Upazila of Bhola are protected from the erosion of the mighty Tentulia River. Around 99 hectares of land were reclaimed through well-planned management of dredged materials. Thus, this project can be regarded as a beneficial project.

Date.....


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 Polder Number 56/57 by executing 3.200 km revetment works along the vulnerable riverbank of Bokshi to Baburhat lauchghat in Charfession Upazila of Bhola District. It has saved public and private properties worth of Tk. 309825.00 lakh of Charfession Upazila of Bhola District. The project reclaimed 90 hectares of land through well planned dredged earth management policy. The project faced several natural calamity such as Foni, Ampaan and Yass and also affected by Covid-19 pandemic, but with close monitoring and careful supervision, the project was completed without time over-run. The project is performing well and good as per expectation and can be declared as sustainable. Proper maintenance and monitoring should be ensured so that the outcome of the project sustains effectively.

Date.....

Signature and Seal.

