

BANGLADESH WATER DEVELOPMENT BOARD



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

Name of the Project: Bank protective work of Rahmatkhali Khal at Sadar Upazilla and Dakatia River at Raipur Upazila in Lakshmipur District (1st Revised).

PROJECT PERIOD: JULY 2018 TO JUNE 2022.

DIVISION : LAKSHMIPUR O&M DIVISION, BWDB, LAKSHMIPUR.
CIRCLE : FENI O&M CIRCLE, BWDB, FENI.
ZONE : EASTERN ZONE, BWDB, CUMILLA.

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** : Bank protective work of Rahmatkhali Khal at Sadar Upazilla and Dakatia River at Raipur Upazila in Lakshmipur 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-Lakshmipur Sadar & Raipur, District- Lakshmipur.
- 05. Object of the Project** :

The overall objective of the project for are:

- ❖ The main objective of the project is to protect the bank from erosion and continuing shifting of the bank line of the Rahmatkhali Khal and safe guard the project area spreaded over the two upazilla of Lakshmipur Sadar & Raipur under Lakshmipur district, which includes agricultural land, homestead, market, school as well as different Govt. and Non-Govt. infrastructure and road communication etc.
- ❖ Development of flood control & drainage facilities in the project area and enhancement of navigation facilities through canal re-excavation.
- ❖ The long-term objective of the project is to sustain socio-economic uplift and provide safety of the population and natural resources as well as create environmental enhancement to 5,000.00 hectares area in the upazila Lakshmipur sadar.
- ❖ To save the immovable and movable properties with approximate financial value of Tk.17695.00 lakh. 1.50 lakh people will be benefited directly or indirectly.

06. Estimated Cost:

(In Lakh Taka)

	Original	Latest Revised (1 st)
a) Total	3836.81	4027.71
b) Taka	3836.81	4027.71
c) Foreign Currency	-	-
d) Project Aid	-	-
e) RPA	-	-

07. Date of Approval :

PCP	PP
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- a) Original : 26-09-2018
- b) No Cost Time Extension : 28-06-2021
- c) Latest Revised (1st) : 22-12-2021



08. Implementation period :

	Date of Commencement	Date of Completion
a) Original	July, 2018	June, 2021
b) No cost time extension	July, 2018	June, 2022
c) Latest Revised (1 st)	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	
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
4027.71	-	4027.71	-

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/2021	July/2018 to June/2022	July/2018 to June/2022	33.33%	As per decision of the steering committee meeting, the contract of two packages of the project has been cancelled due to slow pro rata progress. Subsequently, the contractor filed a writ petition in the High Court (Writ Petition No. 9335/2020 and 9336/2020). As a result, new tendering process for remaining works couldn't be done. That's why project period needed to be extended to implement remaining works of those two packages.

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	3836.81	4027.71	3778.26	(-) 1.53%	Didn't over-run.
Taka	3836.81	4027.71	3778.26		
PA	-	-	-	-	

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

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						

04. Training of project Personnel (Foreign/Local): No Provision 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
(A) Revenue Component:						
Honorarium Allowance-1 item	1 Item	8.00	1 item	7.24	1 item	
Honorarium Allowance (Mid Term Evaluation Committee)	1 Item	10.00	1 item	9.98	1 item	
Seminar, Conference	1 Item	1.00	1 item	0.00	1 item	
Petrol & Lubricant	1 Item	2.00	1 item	1.97	1 item	
Gas & Fuel	1 Item	2.00	1 item	2.00	1 item	
Printing & Packaging	1 Item	2.00	1 item	2.00	1 item	
Stationery, Seal & Stamps	1 Item	2.00	1 item	2.00	1 item	
Survey (Pre-work & Post work monitoring)	1 Item	3.00	1 item	3.00	1 item	
Motor vehicles	1 Item	2.00	1 item	1.90	1 item	
Sub-total Revenue Component (A) :		32.00		30.09		
(B) Capital Component:						
Computer & Acossires-1 sets.	Nos	0.80	1	0.80	1	
Afforestation (Tree, crop and plant resources yielding repeat products)	1 Item	4.48	L.S	4.48	L.S	
Bank protective work of Rahkamatkhali khal (Ch. km 4.60to km 5.100) = 500 meter.	Meter	587.09	500 m	587.09	500 m	
Bank protective work of Rahkamatkhali khal (Ch. km 7.00to km 8.200) = 1200 meter.	Meter	1664.71	1200 m	1546.65	1200 m	
Bank protective work of Rahkamatkhali khal (Ch. km 9.500 to km 10.300) = 800 meter.	Meter	1084.66	800 m	1019.38	800 m	
Construction of Permeable Spar-25 Nos.	Nos	192.36	25	192.36	25	
Re-excavation of Billal Bapari Khali from km 0.000 to 1.500 km =1500 meter.	Meter/ Cum	40.38	1500m/ 0.35 lakh cum	40.38	1500m/ 0.35 lakh cum	
Dredging of Rahkhalikhali khal Regulator at upstream-700 meter.	Meter/ Cum	421.23	700m/ 2.506 lakh cum	357.03	700m/ 2.070 lakh cum	
Sub-total Capital Component (B) :		3995.71		3748.17		
Total (A+B) :		4027.71	100.00%	3778.26	100.00%	

06. Information Regarding Project Director(s):

Name & Designation with pay scale.	Full time	Part time	Responsible for more than one Project	Date of		Remarks
				Joining	Transfer	
1	2	3	4	5	6	7
Md. Rafiq Ullah, Superintending Engineer, Feni O&M Circle, BWDB, Feni. (50,000-71,200/-)	Full	-	Yes	11/12/2018	31/01/2019	
Md. Safi Uddin, Superintending Engineer, Feni O&M Circle, BWDB, Feni. (50,000-71,200/-)	Full	-	Yes	11/03/2019	04/05/2019	
Md. Shahjahan Siraj, Superintending Engineer, Feni O&M Circle, BWDB, Feni. (50,000-71,200/-)	Full	-	Yes	05/05/2019	09/03/2020	
Md. Nasir Uddin, Superintending Engineer, Feni O&M Circle, BWDB, Feni. (50,000-71,200/-)	Full	-	Yes	12/10/2020	29/12/2021	
Gourpada Sutradhar, Superintending Engineer, Feni O&M Circle, BWDB, Feni. (50,000-71,200/-)	Full	-	Yes	22/02/2022	Till 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
No provision of transport procurement in this project						

08. Procurement of Goods, Works and Consultancy Service.

08.1. Goods & Works of the Project costing above Tk. 200.00 lakh and Consultancy above Tk. 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
Bank protective work at the left bank of Rahmatkhali khal Adjacent to Kalir char from km. 4.600 to km. 5.100 = 500 m at Tomchar union in sadar Upazilla District Lakshmipur under Lakshmipur O & M Division BWDB Lakshmipur during the year 2018-2019. (Package No.: Lax-W-01/2017-2018)	Original 450.04 1 st Revised 587.09	595.62	08/07/2019	07/11/2019	30/04/2021	30/06/2021
Bank protective work at the left bank of Rahmatkhali khal Adjacent to Kalir char from km. 9.500 to km. 10.300 = 0.800 K.M at Tomchar union in sadar upazilla district Lakshmipur under Lakshmipur O & M Division BWDB Lakshmipur during the year 2018-2019. (Package No.: Lax-W-03/2017-2018)	Original 1054.34	933.59	04/04/2019	24/06/2019	Original 24/06/2020 Revised 22/06/2021	Work order cancelled on 15-11-2020
Bank protective work at the left bank of Rahmatkhali khal Adjacent to Kalir char from km. 7.00 to km. 8.200 = 1.200 K.M at Tomchar union in sadar upazilla district Lakshmipur under Lakshmipur O & M Division BWDB Lakshmipur during the year 2018-2019. (Package No.: Lax-W-02/2017-2018)	Original 1615.26	1420.13	04/04/2019	24/06/2019	Original 24/06/2020 Revised 22/06/2021	Work order cancelled on 15-11-2020
Construction of 25 Nos Permeable Spur on the left bank of Dakatia River from km. 2.660 to km. 3.740 = 1.080 km. at Mollahat in Upazila Raipur for Flood Control and Drainage System Development from Hajimara to Char Ramani Mohon Polder 59/2 (Tie embankment) in c/w "Bank protective work of Rahmatkhali khal at Sadar Upazilla and Dakatia River at Raipur Upazila in Lakshmipur District" under Lakshmipur O&M Division, BWDB, Lakshmipur during the year 2019-2020 (Package No.-W-4/17-18).	Original 291.64 1 st Revised 192.36	193.42	27/11/2019	13/02/2020	30/06/2020	30/06/2020

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
Dredging of Rahmatkhali khal from km 0.300 to 1.000 = 0.700 km in Upazila-Lakshmipur Sadar, District- Lakshmipur in c/w Flood Control and Drainage System Development from Hajimara to Char Ramani Mohon Polder No-59/2 (Tie embankment) in c/w "Bank protective work of Rahmatkhali khal at Sadar Upazill and Dakatia river at Raipur Upazila in Lakshmipur District" under Lakshmipur O&M Division, BWDB, Lakshmipur during the year 2020-2021 (Lax/W-07/2018-19).	Original 331.02 1 st Revised 421.23	421.23	08/09/2020	03/01/2021	30/06/2021	30/06/2021
Bank protective work at the left bank of Rahmatkhali khal Adjacent to Kalir char from km. 7.00 to km. 7.600 = 0.600 Km. at Tomchar Union in Sadar Upazilla, District Lakshmipur in c/w "Bank protective work of Rahmatkhali Khal at Sadar Upazill and Dakatia River at Raipur Upazila in Lakshmipur District" under Lakshmipur O&M Division, BWDB, Lakshmipur during the year 2020-21 (Package No.-Lax-W-02/2017-18).	1 st Revised 730.03	730.03	08/07/2021	13/09/2021	30/06/2022	30/06/2022
Bank protective work at the left bank of Rahmatkhali khal Adjacent to Kalir char from km. 9.500 to km. 9.900 = 0.400 K.M at Tomchar union in sadar upazilla, district Lakshmipur in c/w "Bank protective work of Rahmatkhali Khal at Sadar Upazill and Dakatia River at Raipur Upazila in Lakshmipur District" under Lakshmipur O&M Division, BWDB, Lakshmipur during the year 2020-21 (Package No.-Lax-W-03/2017-18).	1 st Revised 551.98	551.98	08/07/2021	05/09/2021	30/06/2022	30/06/2022

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
Bank protective work at the left bank of Rahmatkhali khal Adjacent to Kalir char from km. 7.600 to km. 8.200 = 0.600 K.M at Tomchar union in sadar upazilla, District Lakshmipur in c/w "Bank protective work of Rahmatkhali Khal at Sadar Upazill and Dakatia River at Raipur Upazila in Lakshmipur District" under Lakshmipur O & M Division, BWDB, Lakshmipur during the year 2020-21. (Package No-Lax-W-09/2020-21)	1 st Revised 766.66	766.66	08/07/2021	05/09/2021	30/06/2022	30/06/2022
Bank protective work at the left bank of Rahmatkhali khal Adjacent to Kalir char from km. 9.900 to km. 10.300 = 0.400 K.M at Tomchar union in sadar upazilla, district Lakshmipur in c/w "Bank protective work of Rahmatkhali Khal at Sadar Upazill and Dakatia River at Raipur Upazila in Lakshmipur District" under Lakshmipur O&M Division, BWDB, Lakshmipur during the year 2020-21. (Package No-Lax-W-10/2020-21)	1 st Revised 467.03	467.03	08/07/2021	05/09/2021	30/06/2022	30/06/2022

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

Name of the field	Approved man month		Actual man month utilized	Remarks
	As per PP	As per contract.		
1	2	3	4	5

a) Foreign Nil

b) Local 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

N/A.....

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	PA	Physical %	Total	Taka	PA.	Physical %
1	2	3	4	5	6	7	8	9
2018-19	1596.65	1596.65	-	41.61%	1.55	1.55	-	0.04%
2019-20	1639.52	1639.52	-	42.73%	351.69	351.69	-	13.85%
2020-21	600.64	600.64	-	15.66%	952.97	952.97	-	26.37%
2021-22	-	-	-	-	2721.50	2721.50	-	59.74%
Total	3836.81	3836.81	-	100.00%	4027.71	4027.71	-	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
2018-19	5.00	5.00	-	0.13%	3.30	1.55	1.55	-	0.04%
2019-20	500.00	500.00	-	15.26%	500.00	351.69	351.69	-	13.85%
2020-21	1500.00	1500.00	-	24.87%	954.31	952.97	952.97	-	26.37%
2021-22	2529.00	2529.00	-	59.74%	2484.32	2472.05	2472.05	-	59.74%
Total	4534.00	4534.00	-	100.00%	3941.93	3778.26	3778.26	-	100.00%

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Objective as per DPP	Actual achievement	Reasons for shortfall, if any.
(a) To protect the bank from continuing shifting of the bank line of Rahmatkhali Khal due to erosion.	Bankline shifting of the Rahmatkhali Khal has been arrested.	No shortfall
(b) To protect agriculture land, homestead, Market, School, College as well as different Govt. and Non-Govt. infrastructure and road Communication from devastating erosion.	Objective has been achieved by the implementation of the project.	
(c) To maintain Rahmatkhali khal alignment in a sustainable thalweg for sustainable Canal management.	Implemented protective works has ensured fixed and sustainable alignment of Rahmatkhali khal.	
(d) To increase socio-economic development by enhancement natural security against river erosion.	Socio-economic development has been ensured.	
(e) To mitigate environmental impact and ecological imbalance by protection of bank line.	Negative environmental impact has been mitigated and ecological balance has been ensured.	



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 to bank erosion of the following items:			
Agriculture Land	Ha.	1500	1500
Hat, Bazar	Nos	15	15
Primary School cum Cyclone Shelter (Two Storied)	Nos	17	17
Upazila Complex/Union Parishad Complex	Nos	3	3
High School	Nos	5	5
Pucca House	Nos	100	100
Tin Shade House	Nos	3000	2970
Union Health Complex	Nos	2	2

02. Cost / Benefit:

Item	Estimated	Actual
(1) Benefit cost of the project		It will be evaluated later by concern directorate of BWDB & IMED.
	1.52:1.00	
(i) Financial	1.75:1.00	
(ii) Economic		
(2) Internal rate of return		
	20.86%	
(i) Financial	24.47%	
(ii) Economic		

03. 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
(a) Ministry / Agency:			
i) Md. Motahar Hossain Chief Engineer Design, BWDB, Dhaka.	17/09/2019	Not found	Physical works should be completed within stipulated time & quality must be maintained.
ii) Zahir Uddin Ahmed Chief Engineer Eastern Zone, BWDB, Cumilla.			
iii) Md. Shahajahan Siraj PD & Superintending Engineer Feni O&M Circle, BWDB, Feni.			
i) Shamim Ara Khatun Join-Secretary MoWR, Dhaka.	16/11/2019	Not found	Physical works should be completed within stipulated time & quality must be maintained.
ii) Md. Shahajahan Siraj PD & Superintending Engineer Feni O&M Circle, BWDB, Feni.			
Mohammad Musa Join-Secretary MoWR, Dhaka.	30/12/2020 31/03/2021 31/08/2021	Not found	1. Quality of materials should be ensured according to Standard Schedule of Rates Manual, Volume-I (Item Description and Specification of Materials) of BWDB 2. Physical work must be done according to appropriate design provided by Design Office of BWDB.
Md. Nasir Uddin PD & Superintending Engineer Feni O&M Circle, BWDB, Feni.	Several times	Not found	1. Quality of materials should be ensured according to Standard Schedule of Rates Manual, Volume-I (Item Description and Specification of Materials) of BWDB 2. Physical work must be done according to appropriate design provided by Design Office of BWDB.
i) Syeda Salma Jafreen Join-Secretary MoWR, Dhaka.	05/01/2022	Not found	Physical works should be completed within stipulated time & quality must be maintained.
ii) Md. Zakir Hossain Superintending Engineer Feni O&M Circle, BWDB, Feni.			
Mid-term Evaluation Committee	29/01/2022	1. In some locations, excavated earth was found on the banks of	1. Post-work measurement should be taken before finalizing the bill for canal



Name & Designation of the inspecting official	Date of inspection	Identified Problems	Recommendations
		the canals which might have fallen on the canals. 2. CC Block casting platform was not prepared.	re-excavation work. 2. Afforestation should be done on the banks of the canal. 3. Some RCC ghats and benches can be constructed along the implemented protective works.
i) Md. Mahbur Rahman ADG (East Region) BWDB, Dhaka. ii) Md. Moniruzzaman Chief Engineer, Eastern Zone, BWDB, Cumilla. iii) Gourapada Sutradhar PD & Superintending Engineer Feni O&M Circle, BWDB, Feni.	25/02/2022	Not found	1. Quality of materials should be ensured according to Standard Schedule of Rates Manual, Volume-I (Item Description and Specification of Materials) of BWDB 2. Physical work must be done according to appropriate design provided by Design Office of BWDB.
Gourapada Sutradhar PD & Superintending Engineer Feni O&M Circle, BWDB, Feni.	Several times	Not found	1. Quality of materials should be ensured according to Standard Schedule of Rates Manual, Volume-I (Item Description and Specification of Materials) of BWDB 2. Physical work must be done according to appropriate design provided by Design Office of BWDB.
i) Abdullah Al Arif Deputy Secretary Dev-1, MoWR, Dhaka. ii) Dr. Jiban Kumar Sarkar Superintending Engineer Design Circle-4 BWDB, Dhaka. iii) S. M Sarwar Kamal Deputy Secretary Planning-6, MoWR, Dhaka. iv) Polash Kumar Banergy Executive Engineer Chief Monitoring Office, BWDB, Dhaka.	11/06/2022	Not found	Physical works should be completed within stipulated time & quality must be maintained.
(b) IMED:			
i) Khalil Ahmed Director IMED, Ministry of Planning, Dhaka. ii) Md. Nasir Uddin PD & Superintending Engineer Feni O&M Circle, BWDB, Feni.	17/10/2021	Not found	1) Progress of 2.50 km bank protection work & overall progress in taking legal action for Writ Petition No. 9335/2020 and 9336/2020 to be ensured and inform to IMED. 2) All of the Work under the

Name & Designation of the inspecting official	Date of inspection	Identified Problems	Recommendations
			project must be completed by maintaining quality. 3) Audit activities related to financial management of the project should be completed and inform to IMED.
(c) Others (Please specify):			

02. Auditing during and after Implementation:

2.1. Internal Audit: Not Conducted.

Period of Audit	Date of submission of Audit Report.	Major findings/ objections	Whether objection resolved or not.
1	2	3	4
		N/A	

2.2. External Audit:

Audit Period	Date of submission of Audit Report.	Major findings/objections	Whether objection resolved or not.
1	2	3	4
2019-20 & 2020-21	02/11/2021	Financial Loss 50,500/- Taka due to repair & maintenance of vehicles which is not included in TO&E.	Answer is submitted through Competent Authority and solvation of the objection is on process.
2021-2022	Yet to be conducted		

G. DESCRIPTIVE REPORT

1. General Observations/Remarks of the Project on:

1.1 Background

Bangladesh is a riverine country and the rivers carry huge discharge during monsoon. Bank line erosion by sifting the thaw leg of the river bed or widening the flow passage is a common and the recurrent phenomenon especially for the lower Meghna: Rahmatkhali Khal or Rahmatkhali river, is a canal that flows water through Lakshmipur Sadar Upazila in Chittagong Division, Bangladesh. The canal flows through Lakshmipur District and empties into the Meghna River.

The project is situated at the south-eastern region of Bangladesh within the Sadar & Raipur Upazila under the district of Lakshmipur and spreaded along the left bank of Rahmatkhali khal, which is comprises the Tumchar, Kalir Char etc.

Due to heavy tidal flow from upstream, vast area along with a lot of houses have disappeared from km. 4.000 to km. 5.100 = 1.100 km., from km. 7.000 to km. 8.200=1.200 km. and from km. 9.500 to km. 10.30=0.800 km. (total= 3.100 km.) along the left bank of Rahmatkhali khal of 21 no. Tumchar Union under Sadar Upazila

of Lakshmipur District. Besides, houses and roads in various locations are at risk because of this heavy tidal flow.

On the other hand, the project area is spread in 8 no. south charbongshi union under Raipur Upazila of Lakshmipur District which is outside of CIP polder and polder no 59/2 (tie embankment) and is affected by flood caused by lower Meghna River. The project area is 2500 hector. Due to increase of water in Meghna River, frequent high tide – low tide and rise of water level after discharging from Hazimara regulator to Meghna branch river (Dakatia river) in CIP area, this area gets extensively damaged. As a result, houses, crops and other properties of local people are damaged. Besides, many lands and houses of people living near Meghna River have already been washed out. As a result, this development project has formulated to protect local peoples' land, resources and get rid of frequent flooding by developing flood control and drainage convenience. Protective work and re-excavation, dredging and tree plantation have included in DPP to facilitate flood control and drainage

As per public demand, Honorable MP Mohammad Noman from constituency Lakshmipur-02 requested through a DO letter to Honorable Minister, Ministry of Water Resources to take action by implementing bank protective work for saving the area from the erosion of Rahmatkhali Khal.

River/Canal Bank erosion is common scenario for Bangladesh. Due to bank erosion, huge amount property & assets had been lost. Tremendous whirl action due to tidal effects and whirl action due to drainage flow during monsoon, wave action, tidal surge of the lower Meghna causes breaching of the major parts of the embankments of the polders 59/2. Consequently important Govt. and Non-Govt infrastructure and other viz. School, Madrasa, Union Parisad bhaban, Cyclone shelter, movable and immovable public properties are about to engulf into the mighty river Meghna falling the distress people into a vulnerable situation.

To overcome the present situation and relief the local people of the said Sadar Upazila from the grievances and create a congenial situation against panic to the erosion it is necessary to take intensive plan as preventive measure for TumChar union. The entire left bank of Rahmatkhali khal of Kalir char & Mollar hat is under active erosion. Accordingly, it has been considered to implement the bank protection. Hard point is constructed for protecting certain infrastructure or important place.

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. Due to heavy rain water pressure in rainy season, it is observed that bank erosion occurred in concave parts of Rahmatkhali khal.

The overall objective of the project is to reduce environmental degradations and human hazards due to khal erosion with ensuring safety of lives and properties around the area. Throughout the erection of proposed bank revetment works, safety of vast tract of agricultural lands and other immovable and movable properties with approximate economic value of 17695.00 lakh and lead to additional annual crop production of approximately 5849.78 M. Tons within the polder 59/2 (Tie) area.

1.3. Objectives:

Objectives of Project:

- ❖ The main objective of the project is to protect the bank from erosion and continuing shifting of the bank line of the Rahmatkhali Khal and safeguard the project area spreading over the two Upazila Lakshmipur Sadar & Raipur under Lakshmipur District which includes agricultural land, homestead, market, school as well as different Govt. and Non-Govt. infrastructure and road communication etc. from devastating erosion.
- ❖ Development of flood control & drainage facilities in the project area and increase navigation facilities through canal re-excavation.
- ❖ The long-term objective of the project is to sustain socio-economic uplift and provide safety of the population and natural resources as well as create environmental enhancement to 5,000.00 hectares area in the Upazila Lakshmipur Sadar.
- ❖ It is anticipated that implementation of project will save the immovable and movable properties with approximate financial value of Tk.17695.00 lakh & 1.50 lakh people will be benefited directly or indirectly.

1.4. Project revision with reasons:

The project has been undertaken with a view to protect the bank erosion and continuing shifting of the bank line of Rahmatkhali khal, Dakatia river and safe guard the project area spread over the Sadar & Raipur Upazila under Lakshmipur District. Original DPP with a total estimated cost of Tk. 3836.81 lac was approved by the Honorable Minister, Ministry of Planning on 07/10/2018. Later on, 1st Revised DPP costing Tk. 4027.71 lac was approved by Honorable State Minister, Ministry of Water Resources and administrative approval was given by the Ministry of Water Resources (MoWR) on 22/12/2021.

Dolly Construction Ltd. was awarded 2 (Two) contracts on 08/04/19 to implement 2.00 Km. protective work under this project. After some delay, Dolly Construction Ltd. started work. Their work progress was too slow



& unsatisfactory. In this situation according to the decision of Project Steering Committee (PSC), the contracts of Dolly Construction Ltd. had been terminated and re-tendered to complete the work.

Due to cancellation of two packages, for quick implementation they were divided into 04 lots and according to updated schedule of rates 1st revision of the project was proposed. Original DPP was prepared according to rate schedule of FY 2017-18. But later, estimate had to be prepared according to rate schedule of FY 2018-2019. That's why, packages cost has increased. Besides, volume of CC block increased than previous working design. A new approved design has been provided to strengthen the ongoing work. Cost due to repair and strengthen of the protective work is incorporated in the 1st RDPP. Moreover, actual field condition, morphological change, unforeseen situation, few items of emergency work needed to include for sustainable implementation and completion of the project.

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

Bangladesh is a densely populated country and subjected to natural disaster. The major problems responsible for poverty include high level of non-ownership of land, unemployment, illiteracy and malnutrition. The population area of the project is very dense (about 1155 per square km.) and landless population is about 30%. Socio-economic development of the people through agricultural development and providing safety of the natural resources is the main objective to alleviate poverty of the area. The proposed intervention has very little impacts or no negative impacts in and around the area. The project will create new employment opportunity and mitigate the erosion of the land and thus will provide favorable condition towards environmental enhancement of the area.

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

♦ Project Identification:

The project is situated at the south-eastern region of Bangladesh within the Lakshmipur Sadar & Raipur Upazila under Lakshmipur District and spreaded along the left bank of Rahmatkhali khal, which is comprises the Char Bangshi, Tum Char & Kalir Char. This DPP has been prepared as per D.O Letter sent from Honorable MP Mohammad Noman, Lakshmipur-02 to Honorable Minister, MoWR.

♦ Project Preparation:

The proposed project costing to Tk. 3836.81 lakh has been formulated as per approved study. The design was approved by SE Design circle IV of BWDB.

♦ Appraisal/ PEC Meeting in Planning Commission:

The PEC meeting was held on 15/03/2018 at Planning Commission. As per decision of PEC meeting the DPP was re-casted and sent to the Honorable Minister, Ministry of Planning for approval.

♦ **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 Honorable Minister, Ministry of Planning on 26/09/2018 and 1st Revised DPP was approved by Honorable Minister of state, Ministry of Water Resources on 22/12/2021.

◆ **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 stock holders are directly taking advantages of the created facilities 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

- To protect School, Mosque, Bazar, Union Complex, Health Complex, Government and Semi Government Infrastructure, Agricultural Land, Homestead, Road etc. from erosion of the left bank of Rahmatkhali khal & Dakatia river.

- Proposed project will save the immovable and movable properties with approximate economic value of Tk.17695.00 lakh & 1.50 lakh people will be benefited.

4.4.2. Indirect

- Rahmatkhali Khal & Dakatia river alignment has been maintained in a sustainable thalweg for sustainable river management.

- Socio-economic condition has improved in the project area.

- Environmental impact has been mitigated and ecological balance has been established.

- Safety of human livelihood and properties

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 centers 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 Rahmatkhali khal & Dakatia 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 programs and Comments on overlapping with any NGO activities.

Not Applicable.

5. 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

Dolly Construction Ltd. was assigned with implementation of 2 (two) packages of bank protective works. Due to poor mobilization effort from them, the start of the works was delayed. Due to slow pro rata progress & unsatisfactory performance, their contracts were terminated. The remaining works were implemented by deploying new contractors through fresh tendering process

in total 4 (four) lots. Dolly Construction Ltd. Filed a writ petition in high court about terminated contracts, So, the tendering process was delayed as well.

Manpower	N/A.
Law & Order	N/A.
Natural calamity	N/A.
Project financing, allocation and release	N/A.
Design formulation /approval	Change in design concept during implantation period.
Project aid disbursement and re-imburement	N/A.
Mission of the development partners.	N/A.
Time & Cost Over-run	Time over-run due to reason for DPP revision & Covid-19 situation as mentioned in B-01.
Project Supervision /Inspection	N/A.
Delay in Decision	N/A.
Transport	N/A.
Training	N/A.
Approval	N/A.
Others	N/A.

6. Remarks & Recommendations of the Superintending Engineer/Project Director:

The main objective of the project is to protect the bank from continuing shifting of the bank line of Rahmatkhali khal & Dakatia river and to safeguard the project area which is spreaded over the Sadar & Raipur Upazila including its agriculture land, homestead, Market, School, College as well as different Govt. and Non-Govt. infrastructure and road Communication from devastating erosion under Lakshmipur District. 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. Development works have also caused positive impacts on agriculture and fish resources production and land prices. All of these have enhanced employment opportunities and aided poverty alleviation.

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




The commencement and completion of the project is schedule to be accomplished in 2018-2019 to 2021-2022 as per approved DPP (1st Revised) and accordingly implementation completion has been achieved.

During the implementation of this project members of different committees & monitoring authorities visited project site and gave their opinions which has helped to implement the project within project period. Project was implemented properly following respective design, drawing and specification. The quantity and quality of C.C block, Sand filled geo-bag etc. were ensured by Task force committee of BWDB and concerned officials of BWDB.

After successful implementation of this project, the Lakshmipur Sadar & Raipur Upazila and adjacent area has been protected from severe erosion of the Rahmatkhali khal & Dakatia river. The socio-economic condition of the people has been improved. The safety of human livelihood and properties have also been improved.

Recommendation: Proper Monitoring and regular maintenance of the implemented revetment works are required for more sustainability of the project.

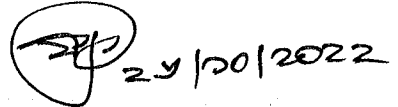
Date:


(Gourapada Sutradhar)
Superintending Engineer
Feni O&M Circle,
BWDB, Feni.
&
Project Director

07. Remarks/ Comments of Agency Head.

This project was formulated to protect the bank from continuing shifting of the bank line of the Rahmatkhali Khal & Dakatia Rivers. The physical work included 2500 meters of bank protection work of Rahmatkhali, Khal, re-excavation of 1500 meters of Khal, and 25 Permeable spars. After the successful implementation of this project, the Lakshmipur Sadar & Raipur Upazila and adjacent areas have been protected from severe erosion of the Rahmatkhali Khal & Dakatia Rivers. The socio-economic condition and livelihood of the people have been improved. Thus, this project is serving its intended purpose.

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 bank from erosion and continuing shifting of the bank line of the Rahmatkhali Khal and safe guard the project area which spreads over the two upazilla Lakshmipur Sadar & Raipur under Lakshmipur District from devastation erosion. Under this project 2500 meters bank protection work of Rahmatkhali, Khal, re-excavation of 1500 meters khal and 25 Permeable spar have been constructed. With close monitoring and careful supervision, the project was completed achieving cent percent physical progress. Regular maintenance should be ensured for the sustainability of the project.

Date:

Signature and Seal

