

BANGLADESH WATER DEVELOPMENT BOARD



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

Name of the Project: PROTECTION OF PROPOSED ECONOMIC ZONE AND
DEVELOPMENT OF RECLAIMED LAND FROM JAMUNA
RIVER IN SIRAJGANJ DISTRICT (1ST REVISED)

PROJECT PERIOD: JANUARY 2018 TO JUNE 2023.

DIVISION : SIRAJGANJ O&M DIVISION, BWDB, SIRAJGANJ.
CIRCLE : BOGURA O&M CIRCLE, BWDB, BOGURA.
ZONE : NORTH-WESTERN ZONE, BWDB, RAJSHAHI.

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

PROJECT COMPLETION REPORT:IMED 04/2003 (Revised)

A. PROJECT DESCRIPTION:

01. **Name of Project** : Protection of Proposed Economic Zone and Development of Reclaimed Land from Jamuna River in Sirajganj District (1st Revised).
02. **Administrative Ministry/ Division** : Ministry of Water Resources (MoWR).
03. **Executing Agency** : Bangladesh Water Development Board (BWDB)/ Delegated Work:24 Engineer Construction Brigade, Bangladesh Army.
04. **Location of the Project** : Sirajganj Sadar, District:Sirajganj.
05. **Object of the Project** :
 - ❖ To protect Economic Zone and adjacent area, reclaimed land in between downstream of Sirajganj Hard Point to west guide bundh of Bangabundhu Bridge and also between Cross Bar # 3& 4.
 - ❖ To protect Sirajganj Launch Ghat, Bearaghat, Ghonapara, Saidabad semi-urban & urban areas, Agricultural Land, Homestead, Road etc. from erosion of the right bank of Jamuna River.
 - ❖ To maintain river alignment in order to ensure sustainable river Management.
 - ❖ To increase socio-economic development by enhancing natural security against river erosion.
 - ❖ To mitigate environmental impact and ecological imbalance by protection of river bank.
 - ❖ To fill the reclaimed agricultural land by dredged spoils.

06. **Estimated Cost:**

(In Lakh Taka)

	Original	Latest Revised(1st)
a. Total	50994.00	63617.63
b. Taka	50994.00	63617.63
c. Foreign Currency	-	-
d. Project Aid	-	-
e. RPA	-	-

07. Date of Approval	:	PCP	PP
a. Original	:	-	09-01-2018
b. 1st Revised	:	-	26-09-2021
c. No Cost Time Extension	:	-	24-08-2022
d. Actual	:	-	30-06-2023

08. Implementation period :

	Date of Commencement	Date of Completion
a. Original	January, 2018	June, 2020
b. 1 st No Cost Time Extension	January, 2018	June, 2022
c. Latest Revised(1 st)	January, 2018	June, 2023
d. Actual	January, 2018	June, 2023

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
63617.63	-	63617.63	-

9.2 Utilization of Project Aid: (Source wise)

(In Millions)

	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
Jan2018 to June 2020	Jan 2018 to June 2023	Jan 2018 to June 2023	120%	24 Engineer Construction Brigade, Bangladesh Army has implemented the Project work through Delegated Procurement as per Rule 12 of PPR-2008. MOU was signed on 26/09/18. Due to the delay of about 09 (nine) months in the signing of the MoU between the Bangladesh Army And Bangladesh Water Development Board (BWDB) for approval and implementation of the project and in view of the prevailing situation of Corona virus, the need for extension of the project arose.

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	50994.00	63617.63	58393.77	(+ 14.51%)	Work Volume/ quantity increased. Due to RDPP.
Taka	50994.00	63617.63	58393.77		
PA	-	-	-		

03. **Project Personnel:** Project work has been completed by the existing manpower of Bangladesh Army and Sirajganj O&M Division, BWDB Sirajganj. There was no provision of outsourcing manpower in 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)	-	-	-	-	-	-
Staff(s)	-	-	-	-	-	-
Total	-	-	-	-	-	-

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

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	21	21	21	21	
b) Local	N/A				

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

(In Lakh Taka)

Items of work (As per RDPP)	Unit	Target (as per RDPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
Revenue Component:						
Travel allowance	LS	10.00	LS	10.00	LS	
Telephone/ Telegram	LS	10.00	LS	10.00	LS	
Gash & Fuel	LS	10.00	LS	9.84	LS	
Petrol & Lubricant	LS	10.00	LS	10.00	LS	
Stationary, seal & stamps	LS	5.00	LS	5.00	LS	
Printing & Publications	LS	2.00	LS	1.97	LS	
Honourium (PSC, PIC, TEC, etc. members)	LS	10.00	LS	9.99	LS	
Mid-Term Evaluation	LS	10.00	LS	9.96	LS	
Progress/ Monitoring	LS	2.00	LS	2.00	LS	
Survey (Bathymetry and Topographic)	LS	50.00	LS	49.86	LS	
Program/ Festival (Seminar)	LS	10.00	LS	10.00	LS	
Hiring Charge	LS	380.00	LS	380.00	LS	
Misc Exp	LS	2.00	LS	2.00	-	
Repair/ Maintenance		0.00		0.00	-	
Vehicle Repair/ Maintenance (3x Jeep, 1 x Pickup & 5x Motorcycle)	LS	7.00	LS	6.99	-	
Computer Repair / Maintenance & Office Equipments	LS	7.00	LS	6.94	LS	
Office & Residential House Repair/ Maintenance	LS	50.00	LS	50.00	-	
Temporary Office & Residential House Establishments	LS	335.00	LS	335.00	LS	
Residential Camp Maintenance	LS	90.00	LS	90.00	LS	
Sub-Total (A):		1000.00		999.55		
Capital Component:						

Items of work (As per RDPP)	Unit	Target (as per RDPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
Double Cabin Pickup	Nos	40.00	1	40.00	-	
Motor Cycle (125CC)	Nos	3.00	6	2.98	-	
02x Computer Desktop, 2 x Laptop & 2 x Laser Printer	Nos	4.00	4 set	4.00	-	
1 x Camp Office Equipments, 1 x Office Equipments (Photo Copier & Other Items)	Nos	21.55	2	21.55	2	
Supply of Office Furniture	LS	5.00	LS	5.00	LS	
Tree plantation and Face-lifting	LS	100.00	LS	100.00	LS	
River Bank Revetment Works (Chainage 0.000 to 3.00 km)	m	22837.85	3000	22837.85	3000	
4.68 sqm Filling of Reclaimed Land by dredging work	lac cum	35677.55	182	33121.88	167	
Construction of Earthen Embankment (3000m)	m	1260.96	3000	1260.96	3000	
Arch Bridge Construction (84m)	nos	2567.72	1 no	0.00	-	During the construction of the Arch Bridge, the dumping materials and slope of Crossbar-04 were likely to be damaged. Moreover due to its design complexity the construction of the bridge was not possible during that time. Hence, the construction of arch bridge was excluded from this Project in the 4th Project Steering Committee (PSC) Meeting.
Sub Total-(B):		62517.63	-	57394.22		
Physical Contingency	-	50.00	-	0.00		
Price Contingency	-	50.00	-	0.00		

Items of work (As per RDPP)	Unit	Target (as per RDPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
Total (A+B):		63617.63	100.00%	58393.77	91.79%	

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 Ariful Islam Executive Engineer. Sirajganj O&M Division, BWDB, Sirajganj 5 th Grade(43000-69850)	Full	-	Yes	05/01/2018	23/01/2019	
MdShofikul Islam Executive Engineer. Sirajganj O&M Division, BWDB, Sirajganj 5 th Grade(43000-69850)	Full	-	Yes	23/01/2019	22/12/2022	
MdMahabuburRahaman Executive Engineer. Sirajganj O&M Division, BWDB, Sirajganj 5 th Grade(43000-69850)	Full	-	Yes	22/12/2022	Till today	

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
Double Cabin Pickup	01			Sirajganj O&M Division 07-01- 2020		Currently being used by Sirajganj O&M Division for Monitoring & Supervision of Project.
Motor Cycle 125 cc	02			Sirajganj O&M Division 30-06- 2019		

08. Procurement of Goods, Works and Consultancy Service.

8.1. Goods & Works of the Project: Costing above Tk. 200.00 lakh.

Description of procurement (goods/work/consultancy) as per Bid document	Tender/Bid/Proposal Cost (in crore Taka)		Tender/Bid/Proposal		Date of completion of works /services and supply of goods.	
	As per DPP RDPP	Contract value Original Revised	Invitation date	Contract signing/LC opening date	As per contract	Actual
1	2	3	4	5	6	7
1. Bank Revetment works on the right bank of Jamuna River from Crossbar#3 to Crossbar#4 3000 Meter in Upazila Sirajganj Sadar, District-Sirajganj under Sirajganj O&M Division BWDB, Sirajganj.	Original- 201.26 1 st Revised 228.37	Original- 201.26 1 st Revised 228.37	Delegated to Bangladesh Army	Delegated to Bangladesh Army (MOU on 30/09/2018)	Original: Jan 2018 Revised: 26/09/2021	June 2023
Filling of Reclaimed land in between corssbar#3 and Crossbar#4 by dredging of Jamuna River upto RL+14.00m (pwd) in sirajganjsadarupazila, district Sirajganj (4.68 Sq-km).	Original- 294.81 1 st Revised 356.77	Original- 294.81 1 st Revised 356.77	Delegated to Bangladesh Army	Delegated to Bangladesh Army (MOU on 30/09/2018)	Original: Jan 2018 Revised: 26/09/2021	June 2023
2. Construction of Earthen Embankment (3000.00 Meter) between belmouth of Crossbar#3 to Crossbar#4 in SirajganjsadarUpazila . District Sirajganj under Sirajganj O&M Division, BWDB, Sirajganj. work (3.00 km)	Original- 10.33 1 st Revised 12.60	Original- 10.33 1 st Revised 12.60	Delegated to Bangladesh Army	Delegated to Bangladesh Army (MOU on 30/09/2018)	Original: Jan 2018 Revised: 26/09/2021	June 2023

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

Name of the field	Approved man month		Actual man month utilized	Remarks
	As per PP	As per contract.		
1	2	3	4	5
a) Foreign	N/A			
b) Local	N/A			

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:

10. (a) Original and revised schedule as per DPP.

(In Lakh Taka)

Financial year	Financial Provision & Physical target as per original DPP				Financial Provision & Physical target as per latest revised DPP			
	Total	Taka	P.A.	Physical %	Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9
2017-18	5590.05	5590.05	-	41.00%	16.53	16.53	-	0%
2018-19	18629.34	18629.34	-	59.00%	7479.94	7479.94	-	41.00 %
2019-20	26774.61	26774.61	-	-	13468.22	13468.22	-	59.00 %
2020-21	-	-	-	-	41782.62	41782.62	-	-
2021-22	-	-	-	-	-	870.32	-	-
Total	50994.00	50994.00	-	100.00%	63617.63	63617.63	-	100.00%

10.(b) Revised ADP allocation and progress:

(In Lakh Taka)

Financial year	Revised Allocation & Target				Taka release	Expenditure & physical progress.			
	Total	Taka	P.A.	Physical %		Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9	10
2017-18	16.55	16.55	-	0.02	16.55	16.52	16.52	-	0.02
2018-19	7520.00	7520.00	-	14.47	7520.00	7479.96	7479.96	-	11.75
2019-20	13500.00	13500.00	-	21.49	13500.00	13478.61	13478.61	-	21.18
2020-21	18475.00	18475.00	-	29.04	18475.00	18445.64	18445.64	-	29.00
2021-22	10171.81	10171.81	-	20.85	9989.42	9989.42	9989.42	-	15.71
2022-23	8984.69	8984.69	-	14.13	8984.69	8983.62	8983.62	-	14.13
Total	58668.05	58668.05	-	100%	58485.66	58393.77	58393.77	-	91.79%

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Objective as per DPP	Actual achievement	Reasons for shortfall, if any.
(a) Main objective of the project is to provide protection against damages of riparian lands of Sirajganj Sadar Upazila at Sirajganj Launchghat, Bearaghat, Ghonapara and proposed Economic Zone and adjacent areas on the west bank of the Jamuna river by construction and maintenance of improved river bank protection works which would protect urban and semi urban areas of Sirajganj Sadar Upazila town's built-up from major damages and cumulative destruction.	100% achievement of 3000 m Embankment with revetment constructed and 4.68 sqkm land areas has been development under this project Which has protected sirajganj sadar from Jamuna River erosion. The developed land is proposed to establish Industrial area under the area in future.	No shortfall
(b) To Protect Economic Zone and adjacent area, reclaimed land in between downstream of Sirajganj Hard Point to west guide bundh of Bangabundhu Bridge and also between Cross Bar#3 & 4.		No shortfall
(c) To protect Sirajganj Launch Ghat, Bearaghat, Ghonapara, Saidabad semi-urban & urban areas, Agricultural Land, Homestead, Road etc, from erosion of the right bank of Jamuna River.		No shortfall
(d) To maintain river alignment in a sustainable hallway for sustainable river management.		No shortfall
(e) To increased socio-economic development by enhancement natural security against river erosion.		No shortfall
(f) To mitigate environmental impact and ecological imbalance by protection of river bank.		No shortfall
(g) To fill the reclaimed agricultural land by dredging spoils.		No shortfall

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
a) Reclaimed Land	Ha	468.00	468.00
b) Benefited area (Agriculture Land)	Ha	4000.00	4000.00
c) Per year value of crop which will be saved	Mt	100000.00	100000.00
d) Pucca House	nos	1374	1374
Semi-pucca	nos	5496	5496
Kantcha	nos	18350	18350
e) Highway/ Metalle Road	km	30.00	30.00
f) Small Cottage & Hut	nos	1960	1960

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)
Industry/NGO's/Private Establishments			
g) Heavy Industries/Private Establishments	nos	10	10
h) Govt Building of District HQ	nos	20	20
i) School/College/Mosques/ Temple/ UP Office/ Family Planning office	nos	120	120
j) Non Metalled Road	km	40.00	40.00
k) Bridge & Culverts	nos	10	10
l) Hat Bazar (including shops)	nos	7	7
m) Electric Line	km	20.00	20.00
n) Transformer	nos	15	15
o) Flood control Embankment	km	10.00	10.00

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	1.59:1.00	
(ii) Economic	2.86:1.00	
(2) Internal rate of return		
(i) Financial	19.85%	
(ii) Economic	22.98%	

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 :			
Kabir Bin Anwar Senior Secretary, MoWR.	24/09/2022	Nil	
Tania Ferdous Deputy Secretary, MoWR.	14/01/2023	Nil	
Chairman, BEZA.	01/12/2022	Nil	
Mid-Term Evaluation Committee:		Nil	
Mahmudul Islam Additional Secretary (Dev.), MoWR.	01/12/2022	Nil	
Mantu Kumar Biswas Joint Chief (Planning), MoWR.	01/12/2022	Nil	
Abdul Azim Chowdhury Joint Chief (Irrigation Wings), Agriculture, Water Resources & Rural	01/12/2022	Nil	

Name & Designation of the inspecting official	Date of inspection	Identified Problems	Recommendations
Institutions Division, Planning Commission.			
Mohammad Anowar Uddin Deputy Chief, Programming Division, Planning Commission.	01/12/2022	Nil	
AKM Abul Kalam Azad Deputy Chief (Irrigation Wings) Agriculture, Water Resources & Rural Institutions Division, Planning Commission.	01/12/2022	Nil	
(b) IMED:			
Md. Afzal Hossan Director, IMED.	01/12/2022	Nil	
Upama Akter Deputy Director, IMED.	01/12/2022	Nil	
(c) Agency (Please specify):			
A M Aminul Haque Director General, BWDB, Dhaka.	24/09/2022	Nil	
Md Zohirul Islam Chief Engineer, North-Western Zone, Sopura, Rajshahi, BWDB.	24/09/2022	Nil	
MotaharHossain Chief Engineer, Design, BWDB.	02/12/2021	Nil	
Md. Shahjahan Siraj Superintending Engineer BWDB, Bogura.	02/12/2021	Nil	
Tarik Abdulla al Fayeze Superintending Engineer BWDB, Bogura.	25/09/2020	Nil	
Md. Arifulislam Superintending Engineer BWDB, Bogura.	20-04-2022	Nil	
Md. Shofikul Islam Executive Engineer BWDB, Sirajganj.	01-12-2022	Nil	
(d) Others (Please specify):		Nil	
Md Jubayer Salehin, AFWC, ndc, psc Major General, Engineer in Chief, Bangladesh Army.	05/10/2022	Nil	
Nur-E-Alam Mohammad Jobayer Sarwar, psc Brigadier General, 24 Engineer Construction Brigade, Bangladesh Army.	22-01-2019 09-04-2019 10-07-2019 01-12-2022	Nil	
Sayed Ahmed, ndc, psc Brigadier General, 24 Engineer Construction Brigade, Bangladesh Army.	10-02-2021 06-03-2021 26-04-2021 09-09-2021 31-10-2021	Nil	

Name & Designation of the inspecting official	Date of inspection	Identified Problems	Recommendations
Kazi Mahtab Uddin Ahmed Lieutenant Colonel, 24 Engineer Construction Brigade, Bangladesh Army.	16-12-2021 07-03-2022 03-09-2022 04-10-2022 20-03-2023	Nil	

02. **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
2020-2021	03 October 2021	Nil	Nil
2021-2022	30 November 2022	Nil	Nil
2022-2023	15 October 2023	Nil	Nil

2.2. **External Audit:**

Audit Period	Date of submission of Audit Report.	Major findings/objections	Whether objection resolved or not.
1	2	3	4
2021-2022	29-11-2022	Nil	Nil

G. DESCRIPTIVE REPORT

01. **General Observations/Remarks of the Project on:**

1.1. **Background**

The Project area is located at the middle part of Sirajganj District under Sirajganj Sadar Upazila across the western/right of Jamuna River. Sirajganj District and its adjacent areas are now enriched with heavy communication facility and river training structures like Sirajganj Hard Point and Bangabandhu Bridge and the areas are historically well known as pioneer in Agriculture and Handloom production. Most of the handloom productions come from Sirajganj, which supplements to a great part in national economy. Huge quantity of agricultural lands and enormous nos. of public and private establishments ie, School College Madrasha, Mosque Textile Industries Handloom Industries small and cottage Industries are situated in project areas. The security of these important structures and priority places and industrial agriculture & handloom growth centers are seriously threatened by continued bank erosion of the mighty unpredictable Jamuna River for last few years and flood protection facilities of the project area are also ceased since 1998. Meanwhile many movable and immovable properties of these areas are engulfed into the Jamuna River. Brahmaputra Right Embankment (BRE) constructed on the western bank of Jamuna River to protect the vast arable lands of 230000 hac against the ravages of yearly flood had also to be retired several times in part of this area of Sirajganj due to severe bank erosion. BRE breaching also caused disruption of communication facilities of the region and because BRE of this part is being used as Bangabandhu Bridge connecting road & regional highway. Bank erosion in long stretch and engulfment of flood embankment had been resulted in significant economic and social impact to the locality.

The loss of land, crop and property had led to landlessness and impoverishment for thousands of households and handloom factories. Erosion displaced households were living as squatters in town's of Sirajganj and along and along the Brahmaputra River Embankment (BRE) itself. Continued bank erosion also caused insecurity to the existence of milestone structures Sirajganj Hard Point and Jamuna Bridge. Town's built-ups, Many public and private social & industrial establishments, Brahmaputra Right Embankment (BRE) cum Bangabandhu Bridge Connecting Road and above all vast areas of valuable agricultural and settlement lands. River erosion at SabarUpazila of Sirajganj District and in adjacent area has taken serious turn requiring immediate implementation of Bank Revetment Work.

In that situation, on the demand of people from all sections of Sadar Upazila of Sirajganj District and to protect the Sirajganj Industrial Park under implementation, this project is being implemented to protect the Sirajganj SadarUpzila, Sirajganj District Town. Brahmaputra Right Embankment (BRE) cum Bangabandhu Bridge Connecting Road including proposed Sirajganj Industrial Park from the severe erosion of Jamuna River.

1.2. Justification/Adequacy:

The major problem responsible for poverty includes high level of landlessness due to river bank erosion (i.e. population displacement and potential erosion damages and losses to productive agricultural and urban land and severs damage to property and infrastructure), recurrent floods, unemployment, illiteracy and malnutrition. The population of the Project area is very dense (about 1085 per square kilometer) and landless population is about 20-30% who are now living as squatters in flood embankment and other Govt. areas. Socio-economic development of the people through agriculture and business generation development providing flood control support and protection of potential lands, infrastructures of urban and rural areas from erosion damages is the main objective to alleviate poverty of the area. The project would prevent the erosion loss of about 600 ha of riparian land including about 600 ha of urban and semi-urban built-up area in the vicinity of Sirajganj Sadar Upazila of Sirajganj District and protect a population of about 20000 people from loss of land, livelihood, property, displacement and impoverishment.

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 dredging, safety of vast tract of agricultural lands and other immovable properties total worth of Tk.13168.00 Lakh will be ensured against river erosion.

1.3. Objectives:

- ❖ To protect Economic Zone and adjacent area, reclaimed land in between downstream of Sirajganj Hard Point to west guide bundh of Bangabundhu Bridge and also between Cross Bar # 3& 4.
- ❖ To protect Sirajganj Launch Ghat, Bearaghat, Ghonapara, Saidabad semi-urban & urban areas, Agricultural Land, Homestead, Road etc. from erosion of the right bank of Jamuna River.
- ❖ To maintain river alignment in order to ensure sustainable river Management.
- ❖ To increase socio-economic development by enhancing natural security against river erosion.
- ❖ To mitigate environmental impact and ecological imbalance by protection of river bank.
- ❖ To fill the reclaimed agricultural land by dredged spoils.

1.4. Project revision with reasons:

The Project was approved by ECNEC on **09/01/2018**. Main components of the project were Construction of 3.00 km River Bank Protection work on a spill channel of the Jamuna River and Filling of Reclaimed Land in the Jamuna to create diversion channel with a length of 4.68 sqm and Earthen Embankment 3.00 km. Approved Project cost was Tk. 509.94Crore with implementing duration from 01 July'2018 to 30 June2020. During the process of DPP approval and tender

processing two rainy seasons were elapsed. During that period a remarkable morphological change took place. Crossbar-04 parallel to it 1100.00 meters and another 1400.00 meters to the north-east of the industrial park under implementation. Total 2500.00 meters. There is a natural water source which can hold rain water and drainage water of the project area. As the project area is filled with dredged sand, the rainwater will infiltrate through the soil and lead to excess water source. Surface Runoff will be preserved in this reservoir of nature.

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

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.

Accordingly, present project has been formulated to construct a 3.00 Km bank protection work and Filling of Reclaimed Land **in the Jamuna to create diversion channel with a length of 4.68 sqm** and Earthen Embankment 3.00 km in Jamuna River.

03. Protection of economic zone: If the project is implemented, the Bisik Industrial Park, Sirajganj area, houses in those areas including municipality and district headquarters, Brahmaputra Danti flood control dam (BRE), roads, educational institutions, public and private institutions, health complexes, markets, mosques, arable land, Fruit orchards, local small scale and cottage industries etc. will be spared from river erosion. As a result, agri-fishery and artisanal production will continue and the livelihood of the local people will continue. As a result of the northern region being mainly agricultural, the economic activities of the people of the area will be maintained through the development of various heavy, small and cottage industries based on agriculture. As the proposed area is close to the Bangabandhu Bridge, there is a possibility of development of heavy, small and cottage industries on a large scale as there is good communication with the capital and seaports, gas and electricity supply to the rest of the country. As the area is on the bank of railway and road and Yamuna river along with Mongla Port Darshana Bell Port, Rahanpur Bell Port, Burimari Bell Port, Dhaka and Chittagong, there is a bright possibility of industrialization in the area on a large scale. As a result, the whole country including the said area will be opened by industrial revolution and huge economic development.

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

a) Project Identification:

The Project area is located at the middle part of Sirajganj District under Sirajganj Sadar Upazila across the western/right of Jamuna River. Sirajganj District and its adjacent areas are now enriched with heavy communication facility and river training structures like Sirajganj Hard Point and Bangabandhu Bridge and the areas are historically well known as pioneer in Agriculture and Handloom production. Most of the handloom productions come from Sirajganj, which supplements to a great part in national economy. Huge quantity of agricultural lands and enormous nos. of public and private establishments ie, School College Madrasha, Mosque Textile Industries Handloom Industries small and cottage Industries are situated in project areas. The security of these important structures and priority places and industrial agriculture & handloom growth centers are seriously threatened by continued bank erosion of the mighty unpredictable Jamuna River for last few years and flood protection facilities of the project area are also ceased since 1998. Mean while many

movable and immovable properties of these areas are engulfed into the Jamuna River. Brahmaputra Right Embankment (BRE) constructed on the western bank of Jamuna River to protect the vast arable lands of 230000 hac against the ravages of yearly flood had also to be retired several times in part of this area of Sirajganj due to severe bank erosion. BRE breaching also caused disruption of communication facilities of the region and because BRE of this part is being used as Bangabandhu Bridge connecting road & regional highway. Bank erosion in long stretch and engulfment of flood embankment had been resulted in significant economic and social impact to the locality. Protection of economic zone If the project is implemented, the Bisik Industrial Park, Sirajganj area, houses in those areas including municipality and district headquarters, Brahmaputra Danti flood control dam (BRE), roads, educational institutions, public and private institutions, health complexes, markets, mosques, arable land, Fruit orchards, local small scale and cottage industries etc. will be spared from river erosion. As a result, agri-fishery and artisanal production will continue and the livelihood of the local people will continue. As a result of the northern region being mainly agricultural, the economic activities of the people of the area will be maintained through the development of various heavy, small and cottage industries based on agriculture. As the proposed area is close to the Bangabandhu Bridge, there is a possibility of development of heavy, small and cottage industries on a large scale as there is good communication with the capital and seaports, gas and electricity supply to the rest of the country. As the area is on the bank of railway and road and Yamuna river along with Mongla Port Darshana Bell Port, Rahanpur Bell Port, Burimari Bell Port, Dhaka and Chittagong, there is a bright possibility of industrialization in the area on a large scale. As a result, the whole country including the said area will be opened by industrial revolution and huge economic development.

b) Project Preparation:

For project formulation a Technical Committee was formed by BWDB to provide a Technical Report regarding this project. The committee visited the project area and submitted the report with specific recommendation. The committee recommended for Main components of the project were Construction of

3.00 km River Bank Protection work on a spill channel of the Jamuna River and Filling of Reclaimed Land in the Jamuna to create diversion channel with a length of 4.68 sqm and Earthen Embankment 3.00 km in Jamuna River.

c) Appraisal:

The appraisal meeting was held on 27/11/2017 at Planning Commission. As per decision of appraisal meeting the DPP was corrected and sent to the Ministry of Planning for approval of the above project.

- d) **Credit Negotiation** : Not Applicable.
- e) **Credit Agreement** : Not Applicable.
- f) **Credit Effectiveness** : Not Applicable.
- g) **Loan Disbursement** : Not Applicable.
- h) **Loan Conditionality** : Not Applicable.
- i) **Project Approval** : The Project was approved by ECNEC on 09/01/2018 and 1st Revised DPP was approved by ECNEC on 07/09/2021.
- j) **Others (if any)** : Nil.

05. Analysis of the Post-Implementation Situation and Result of the Project:

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

Yes.

5.2 Programme for use of created-facilities of the project.

The stakeholders are directly taking advantages of the created facilities of the project.

5.3. 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.

5.4 Impact of the project.

5.5.1 Direct.

- ❖ The implementation of project Economic Zone and reclaimed land in between Cross bar-3 & Cross bar-4 and to save the West Guide Bundh of Bangabundhu Bridge has been protect.
- ❖ The implementation of Project Sirajganj Launch Ghat, Bearaghat, Ghonapara, Saidabad semi-urban & urban areas, Agricultural Land, Homestead, Road etc. from erosion of the right bank of Jamuna River has been protect.
- ❖ The implementation of Project maintain river alignment in a sustainable hallway for sustainable river Management has been achieve.
- ❖ The implementation of Project increased socio-economic development by enhancement natural security against river erosion has been achieve.
- ❖ The implementation of Project mitigate environmental impact and ecological imbalance by protection of bank line has been protect.
- ❖ The implementation of Project fill the reclaimed agricultural land by dredged spoils. has been achieve.

5.5.2. Indirect.

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

5.5. Transfer of Technology and Institutional Building through the project.

Not Applicable.

5.6. Employment generation through the project.

A large number of skilled/ unskilled workers were employed during construction period. Local workers and suppliers were closely involved in construction works.

5.7. Possibility of Self-employment.

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

5.8. Possibility of women-employment opportunity.

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

5.9. Women's participation in development.

Local village women are becoming self-entrepreneur.

5.10. 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.

5.11. Impact on environment.

Environmental enhancement is achieved through the implementation of the project.

5.12. Sustainability of the project.

The project is sustained but requires periodic maintenance.

5.13. Contribution to poverty alleviation/reduction.

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

5.14. Opinion of the public representatives, local elite, local administration, teachers, religious leaders, and women's representatives etc.

Positive.

5.15. Contribution of Micro-credit programmers and Comments on overlapping with any NGO activities.

Not Applicable.

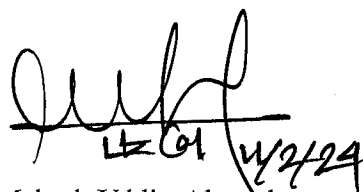
06. Problems encountered during Implementation (with duration & steps taken to remove those)

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	: Flood Sustained. Morphological changes led to changed dredging alignment.
Project financing, allocation and release	: N/A.
Design formulation/approval	: N/A.
Project aid disbursement and re-imbursement	: N/A.
Mission of the development partners.	: N/A.
Time & Cost Over-run	: N/A.
Project Supervision/Inspection	: N/A.
Delay in Decision	: N/A.
Transport	: N/A.
Training	: N/A.
Approval	: RDPP approval delayed due to nationwide Covid-19 situation.
Others	: N/A.

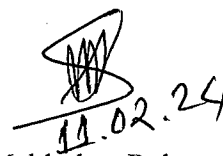
07. Remarks & Recommendations of the Project Director:

The project is located in the middle part of Sirajganj district under Sirajganj Sadar upazila on the western right of Jamuna river. Sirajganj district and surrounding areas are now endowed with heavy communication facilities and training structures like Sirajganj Hardpoint and Bangabandhu Bridge and the areas are historically known as pioneers in agricultural and textile production. Most of the handloom industry production comes from Sirajganj which contributes a large share to the national economy. As a result, there is a large amount of cropland. Government and private institutions such as schools, colleges, madrasas, mosques, textile industries, weaving industries, small and cottage industries are located in the area. The implementation of the project has saved these important installations and priority sites and industrial agriculture and textile industries from being seriously threatened by the continuous bank erosion of the strong and anticipated Jamuna River over the past few years. As a result of the implementation of the project, 4.50 square kilometers of land has been developed. Employment opportunities have been created as a result of the implementation of the project. As a result, the area has significant economic and Development of social impact.

Recommendation: Basically: As the northern region is mainly agricultural, the economic activities of the people of the area will be maintained through the development of various heavy, small and cottage industries based on agriculture. It is also noted here that the proposed area is close to the Bangabandhu Bridge, has good communication with the capital and seaports, gas and electricity, and has the potential to develop large scale heavy, small and cottage industries. As the area is on the bank of rail and road and Jamuna river with Dhaka and Chittagong including Mongla Port, Darshana Rail Port, Rahanpur Rail Port, Burimari Rail Port, there is a bright possibility of industrialization in the area on a large scale. As a result, industrial revolution and huge economic development has been opened in the entire country including the said area. Therefore, the project has been implemented to protect the area where the industrial park, Sirajganj, and other factories are built, from the river erosion. Lastly, proper monitoring is required so that, local or any source cannot misuse the bank protection work which will harm the construction. Regular periodic repair and maintenance works should be continued as and when required.



Kazi Mahtab Uddin Ahmed
Lieutenant Colonel
24 Engineer Construction Brigade,
&
Project Director
On behalf of Bangladesh Army.



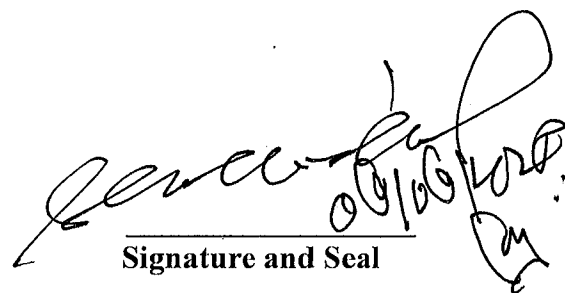
Md Mahbubur Rahman
Executive Engineer
Sirajganj O & M Division,
BWDB, Sirajganj.
&
Project Director
On behalf of BWDB.

Date:...../...../2024

7. Remarks/Comments of Agency Head

The main objective of this project was to protect Economic Zone and adjacent area in reclaimed land between downstream of Sirajganj Hard Point and also to mitigate river bank erosion on the right bank of Jamuna River. This project was delegated to 24 Engineer Construction Brigade, Bangladesh Army. The objectives of this project have been by various construction works such as bank protection work, embankment construction etc. As a result, various important installations and priority sites and industrial agriculture and textile industries has been saved from severe river bank erosion as well as 4.50 square kilometers of land of Sirajganj Economic Zone has been developed and protected. Employment opportunities have been created as a result of the implementation of the project. Thus, this project can be regarded as successful one.

Date:



Signature and Seal

(S.M. Shahidul Islam)
ID NO: 650307001
Director General
BWDB, Dhaka

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

Date:

Signature and Seal

