BANGLADESH WATER DEVELOPMENT BOARD



PROJECT COMPLETION REPORT: IMED-04/2024

Name of the **Project:**

Detailed Feasibility Study for Char Stabilization and Livelihood Development Project in the Jamuna River (Pilot Study: Kawakhola Char)

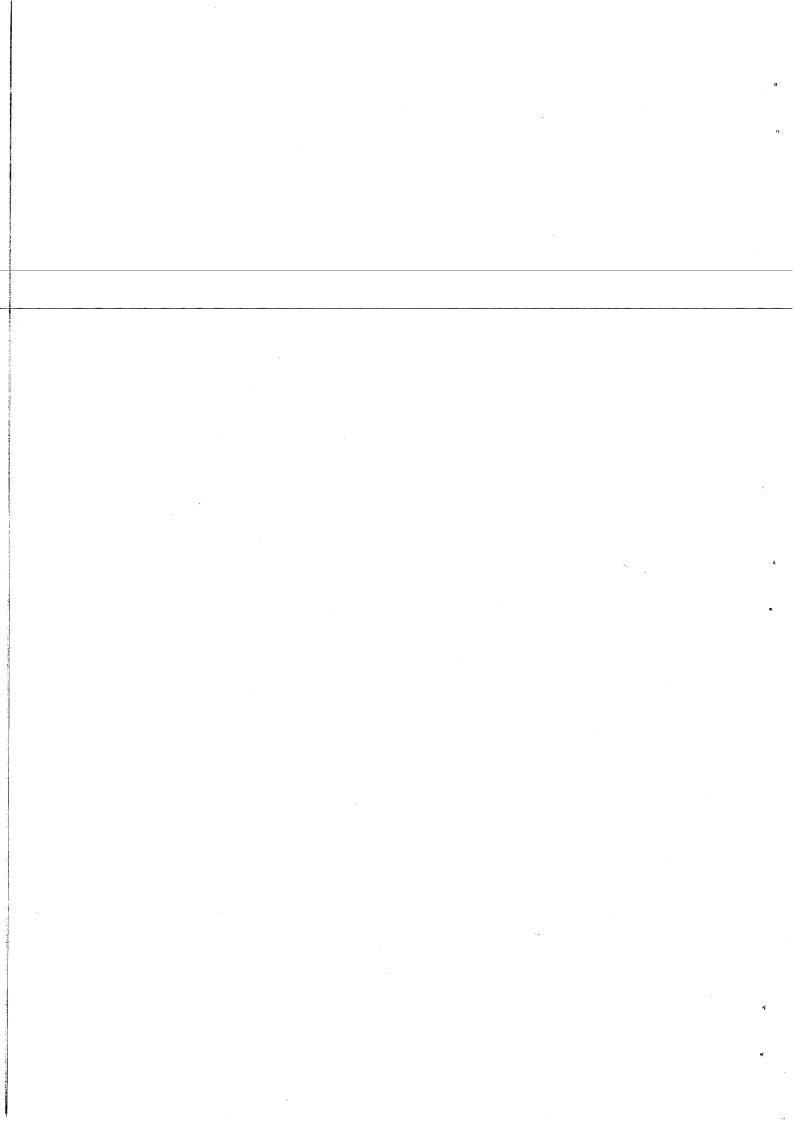
PROJECT PERIOD: July 2022- June 2024

OFFICE

: Office of the Superintending Engineer (Civil)

Directorate of Planning-3, BWDB

Pani Bhaban, Dhaka



Government of the People's Republic of Bangladesh Ministry of planning <u>Implementation Monitoring and Evaluation Division</u>

PROJECT COMPLETION REPORT (PCR): IMED 04/2024 (Revised)

A. PROJECT DESCRIPTION

01.	Name of the Project	: Detailed Feasibility Study for Char Stabilization and Livelihood Developme			
			Project in the Jamuna River (Pilot Study: Kawakhola Char)		
02.	Administrative Ministry/Division	:	Ministry of Water Resources (MoWR)		
03.	Executing Agency	:	Bangladesh Water Development Board (BWDB)		
04.	Planning Commission Sector/Division	:	Sector: 09-Environment, Climate change and Water Resources Division: Agriculture, Water Resources and Rural Institutions Division		
05.	Type of Project (Investment/Tech	nica	al/Feasibility Study): Feasibility Study		
06.	Location of the Project (As per Pr	oje	ct Document):		
Sl. No	Division	D	District Upazila		
1	Rajshahi		irajganj Kazipur and Sirajganj Sadar		
2	Dhaka		angail Bhuapur		
		Ja	amalpur Sarishabari		

07. Estimated Cost, Implementation Period and Approval:

(In Lakh Taka)

Subject	Appı	roved Estimated Cost		Implementat	Date of	Approv	
	Total	GOB	PA	Self-	ion Period	Approv	ed by
		(Foreig	(RPA	finan		al	
		n)	ce			
		Exchan					
		ge)					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Original	490.00	490.00	-	-	July 2022-	04/08/	MoWR
					September	2022	
					2023		
1 st No Cost	490.00	490.00	-	-	July 2022-	12/09/	MoWR
Extension (If					June 2024	2023	
Applicable)	<u> </u>						



08. Objective of the Project

Overall objective:

The overall objective of this study is to assess the char dynamics of the Jamuna River and to stabilize the potential chars for development such as Kawakhola Char through engineering and biological/nature-based interventions and propose the detailed land-use plan for land development as well as prepare the Development of Project Proforma (DPP).

Specific Objectives:

The specific objectives (component-wise) of the study are:

Hydrological and Morphological Model Study (Component-1)

- Assess dynamics and prioritize chars in the Jamuna River for stabilization;
- Assess the stability of the accreted char through hydro-morphological assessment;
- Identify the governing factors affecting the char stability;
- Identify the suitable structural and biological/nature-based interventions;
- Design structural and biological/nature-based interventions to stabilize the char;
- Prepare of land-use plan for char area development;
- Assess the requirement of dredging and prepare a dredged material management plan and efficient use of dredged material;
- Manage the drainage and flooding problems considering climate change scenario and future land-use;
- Analyse factor for climate resilient and sustainable development and devise adaptation plan;
- Assess disaster impact and prepare mitigation plan;
- Develop community based early warning system;
- Prepare the Implementation Plan including DPP.

Physical Modeling (Component-2)

- Potential flood risk/ effect;
- Afflux effects on hydraulic structures;
- Calibrate and verify mathematical models;
- Provide assessment of hydraulic adequacy of structures;
- Provide detailed calibration of pertinent hydraulic structures;
- Assess the scour/deposition characteristics and mechanism;
- Identify internal river, khal and channel network within the char area and future possible impacts;

Environmental and Social Impact Assessment Study (Component-3)

- To prepare Environmental and Social baseline:
- To conduct an Environment and Social Impact Assessment (ESIA) considering proposed interventions;

- Prepare a habitat map for the entire Jamuna River;
- Develop framework for adapting changing socio-economic condition;
- To prepare Resettlement Action Plan (RAP);
- To develop Environmental Management and Monitoring Plan (EMMP) including biodiversity conservation plan for conservation of aquatic resources, fisheries resources, bird sanctuaries etc.

09. Background of the Project:

Bangladesh is a developing country. The country needs suitable lands for building industrial park, township, and inland river port. Main constraint is to obtain the land at the cost of displacement and resettlement of huge number of people. To override this constraint, land reclamation could be a very promising option from the Jamuna River.

There are number of studies which outlined the river training and channelization aspects of the Jamuna River. These includes: China-Bangladesh Joint Expert Study (CBJES) in 1990, Flood Action Plan 1 (FAP-1) study in 1993, Klaassen (2009) and Capital Dredging Study in 2012. FAP-24 discussed about the training of the Jamuna River in a single channel, width requirement is only 4 km at its bankfull stage where it is assumed that the bank material is non-cohesive. In case of cohesive bank materials or protected banks, the required width would be less.

The CBJES suggested training the river into a stable bifurcated channel by utilizing natural nodes together with the harnessing work on the mid-islands. They offer two schemes of controlling bend and node. They suggested to regulate the river by nodes and by the combination of protection of the banklines and regulation of mid-islands' stability. They also suggested for combining all the engineering works on bank protection, branch blocking, and ditch filling together for raising the surface of islands through siltation. Considering the cost of the training works, CBJES recommended bend controlling approach for the Jamuna River.

Based on the planform analysis conducted in the early 1990s, FAP-1 also proposed similar two options for a tentative planform for long-term river training works in the Brahmaputra-Jamuna River. In Option 1, the Brahmaputra-Jamuna River was proposed to be a multi-threaded river. Some hard points at the right bank along with islands protection structures were proposed in this option. In Option 2, the Brahmaputra-Jamuna was proposed to be a single threaded river, i.e. a meandering river. There were some common structures for both options. However, Option 2 showed more reduced width than Option 1.

Based on the technological development such as reduced cost in bank protection techniques using geo-bag, Klaassen (2009) proposed a channelized meandering river which will protect the river bank as well as reclaim land from riverbed.

Capital dredging study by BWDB in 2012 also suggested the minimizing of the width of the Jamuna River for the reduction of the flood, erosion as well as the improvement of the navigation through dredging and river training works. This study recommended the Jamuna River into a single channel river.



The past studies contributed significantly towards developing understanding of the complex physical processes of the Jamuna River. These studies have also indicated the need for training of the Brahmaputra-Jamuna River and outlined the needed river training works. Based on the knowledge gained from all these researches and studies, it suggests the feasibility of channelizing the Jamuna River in a single with appropriate river training works and recent morphological development is favorable for such work.

10. Major Activities:

- Hydro-morphological Analysis
- Prioritize chars in the Jamuna River for stabilization
- Assessment of sediment transport and deposition at the u/s and d/s of the char based on available sediment data (secondary sources) using Mathematical modelling (2-D);
- Identification & Designing Engineering and Biological Interventions and Layout Plan
- Land-use plan for char area development
- Environmental and Social Impact Assessment Study
- Preparation of Habitat Suitability Map
- Preparation of Environmental Management Plan (EMP), Resettlement Action Plan (RAP);
- Implementation Plan and DPP Preparation

11. Reasons for Revision (if applicable): Not Applicable

- 11.1 Reasons for No-Cost Time Extension: Data collection of monsoon season and survey work at field level to incorporate hydrological and morphological modeling as well as Environmental and Social Impact Assessment of the project took more time than planned. As a result, to complete the project successfully, No-Cost Time Extension was needed.
- 11.2 2nd time No-Cost Time Extension: Not Applicable

12. Financing Arrangement (Source-wise):

- 12.1 Status of Loan/Grant
 - a) Foreign Financing: Not Applicable

Source	Currency	Amount	Nature Date of I		Date of	Date of	Closing
(s)	as per	in US\$	(Loan/Grant	Agreement	Effectivenes	Origin	Revise
	Agreemen	(million	/supplier's		s	al	d
	t)	credit)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

b) GOB:

Total amount	Loan	Grant	Cash Foreign Exchange
(1)	(2)	(3)	(4)
490.00	-	490.00	-



c) Self-finance/Equity: Not Applicable

Total amount	Self-finance	Equity	Cash Foreign Exchange
(1)	(2)	(3)	(4)

12.2 Utilization of Project Aid (Source wise): Not Applicable

	Source (s)	Total Amount		Actual Ex	penditure	Unutilized Amount		
		In Us\$	In Local Currency	In Us\$	In Local Currency	In Us\$	In Local Currency	
_	(1)	(2)	(3)	(4)	(5)	(6)	(7)	

12.3 Reimbursable project Aid (RPA): Not Applicable

Source	RPA Amount		Amount	Amount	Amount	Remarks
(s)	As per Project Document	As per Agreement	Spent	Claimed	Re- imbrued	
(1)	(2)	(3)	(4)	(5)	(6)	(7)

B. IMPLEMENTATION POSITION

13. Implementation Period:

, -	n Period as per Document	Actual implementatio	Time Over- run (% of	Remarks
Original	Latest	n	original	
	Revised		implementati	
			on period	
(1)	(2)	(3)	(4)	(5)
July 2022-	July 2022-	July 2022-	+ 60%	Data collection of
September	June 2024 (24	June 2024 (24		monsoon season and
2023	months)	months)		survey work at field
(15 months)				level to incorporate
				hydrological and
				morphological
				modeling as well as
				Environmental and
·				Social Impact
				Assessment of the
				project took more time
				than planned. As a
				result, to complete the
				project successfully,
				No-Cost Time
				Extension was needed.



14. Cost of the Project:

Description	Estimated Cost		Actual	Cost over-	Remarks
	Original	Latest	expenditure	run (% of	
		revised		original	
				cost)	
(1)	(2)	(3)	(4)	(5)	(6)
TOTAL	490.00	-	378.21		The actual
TAKA	490.00	-	378.21	(-22.81%)	expenditure was less
PA	-	-	-		than the estimated
					cost.

15. Information regarding Project Director (s):

Name, Main	Full	Part	Responsibl	Period		Remark
Designation &	time	time	e for more	Joining	Transfer	s
Grade.	(Yes/No	(Yes/	than one			
Mobile Number)	No)	project			
(From Beginning)						
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Nasrin Akter Khan	Yes	No	No	27	Till date	-
Executive Engineer				September		
(Civil),				2022		
Directorate of					-	
Planning-3,						
BWDB, Dhaka.						
Grade-5;						
01715012524		:				

16. Personnel:

16.1 Personnel of Project implementation Unit (PIU): Existing manpower of Directorate of Planning-3, BWDB were engaged with implementation of the project.

SI. No.	Name of Post (Grade)	Approved Strength	Employed during Implementation
(1)	(2)	(3)	(4)
Total=			

16.2 Personnel Required after the Project Completion: Not Applicable

S1.	As P reposed in Project Docum	Recruited	If not recruited	
No.	Name of Post Number ((Yes/No)	explain reason and
				latest status
(1)	(2)	(3)	(4)	(5)
Total=				



17. Training (Foreign/Local): Local

Category	Sl	No.	of Days/	Weeks/Months (1	D/W/M),	Batch &	Participants	
		As	n Project	Document	Achievement			
	N	No. of	No. of Batch Participants(s)			Batch	Participants(s)	
	0.	Days	(s)		Days	(s)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Local	1		1		2	1	12	
Training	2		1		2	1	12	
Sub Total=			2		4	2	24	
Foreign								
Training								
Sub Total=				BD 349				
Total=			2		4	2	24	

(PD= Project Document) 18. Component-wise Progress (As per latest approved Project Document):

Name of	Unit	Quant	Es	timated Co	ost (T	aka in Lac)	Actual Progress (Taka in Lac)					
Component		ity	Total	GOB	P A	Self- finance	Othe rs	Total	GOB	PA	Self- finan ce	Other s	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
(a) Revenue:													
Hydrological and Morphological Model Study	LS	LS	251.55	251.55	-	-	-	229.76	229.76	-	-	-	
Physical Modelling	LS	LS	68.61	68.61	-	-	-	0.00	0.00	-	-	-	
Environmental and Social Impact (ESIA) Study	LS	LS	160.83	160.83	-	-	-	146.61	146.61	-	. -	_	
Printing & Binding	LS	LS	0.50	0.50	-	- '	-	0.49	0.49	-	-	-	
Other stationery	LS	LS	0.51	0.51	_	-	-	0.25	0.25	-	-	-	
Domestic travel expenses	LS	LS	2.00	2.00	-	-	-	0.14	0.14	-	-	-	
Fuel and Gas	LS	LS	1.00	1.00	-	-	-	0.00	0.00	-	-	-	
Petrol, Oil and Lubricants	LS	LS	1.00	1.00	-	-	-	0.00	0.00	-	-	-	
Entertainment Expenses	LS	LS	1.00	1.00	•	-	-	0.00	0.00	-	-	-	
Sub-total (Revenu	ie)	487.00	487.00	-	-	-	377.25	377.25	-	-	-	
(b) Capital				I		L				•		·	
Furniture	LS	LS	3.00	3.00	-	-	-	0.96	0.96	_		-	
Sub-total (Capit	al)		3.00	3.00	-	-	-	0.96	0.96	-	-	- '	
Total a+b (Rev	enue+ C	Capital)	490.00	490.00	-	-	-	378.21	378.21	-	-	-	



19. Procurement of Transport (in Nos.): Not Applicable

Type of transport	Number as per Project Document	Number Procured with date	Transferred to Transport Pool with date	Transferred to O & M with date	Condemned/ damaged with date	Returned or transferred to following project	Remarks
Car	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Jeep							
Microbus							
Minibus				***			
Bus		7:					
Pick-up							
Truck							
Motor - Cycle							
By-cycle							
Speed Boat							
Launch							
Others with name							

20. Project Consultant (s) (Local/Foreign):

Name of the Field	Approved	man month	Actual man month utilized	Numb Delive	per of erables	Remarks
	As per	As per		As per	Actual]
	Project	contract		Project		
	Document			Document		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
a) Local:	Hydrological	Hydrological	Hydrological and	Inception	Inception	Hydrological
	and	and	Morphological	Report,	Report,	and
	Morphologic	Morphologic	Model Study	Interim	Interim	Morphological
	al Model	al Model	Component:	Report,	Report,	Model Study
	Study	Study	39 man month	Progress	Progress	Component
	Component:	Component:		Report,	Report,	was conducted
	39 man	39 man		Draft	Draft	by IWM and
	month	month		Final	Final	Environmental
			·	Report,	Report,	and Social
İ				Final	Final	Impact
				Report.	Report.	Assessment
						Study
						Component
						was conducted
						by CEGIS. As
1						per decision of
						PSC, the
· i						project was
						completed
						without



Name of the Field	Approved	man month	Actual man month utilized	Numb Delive		Remarks
	As per	As per		As per	Actual	
	Project	contract		Project		
	Document			Document		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Physical Modelling			1		Physical Modelling
	Component: 34 man month					component.
	Environment	Environment	—Environmental—	-Inception-	–Inception–	
	al and Social Impact Assessment Study Component: 29 man month	al and Social Impact Assessment Study Component: 29 man month	and Social Impact Assessment Study Component: 29 man month	Report, Interim Report, Progress Report, Draft Final Report, Final	Report, Interim Report, Progress Report, Draft Final Report, Final	
b) Foreign				Report.	Report.	

21. Infrastructure/Erection/Installation Tools & Equipment: Not Applicable

Description	Quantity (as per project document)	Quantity Procured with date	Transferred to O & M with date	Disposed- off as per rule with date	Balance	Remarks
 (1)	(2)	(3)	(4)	(5)	(6)	(7)

22. Procurement of Goods, Works and Services:

22.1 Information on packages:

- a) Total number of packages as per Project Document: 5 (Goods- 2, Works-0, Services-3)
- b) Total number of packages procured: 4 (Goods- 2, Works-0, Services- 2)
- c) Reason for not procuring (if any): The physical modeling component of the project, submitted by the consulting firm RRI, was recommended non-responsive by PEC. Then the issue was raised in the meeting of PSC held on 11.07.2023 and the PSC decided to complete the project without the physical modeling component. As a result physical modeling component was not procured.
- d) Number of packages for which the estimated cost is more than 1% of the estimated cost of the project: 0(Goods-0, Works-0, Services-0)



Information Related to Procurement of Goods:

	pletion	Actual		(14)	14.06.2023			8 06 2023	0.00.5023	
	Date of Completion	As per A		(13)	72			15 06 2023 18 06 2023	7	
	Actual	Payment		(12)	1	; ;		96 600/-		
	Contract	Price &	Date	(11)	Т	08 06 2023		-/009 96	_	
	Date of	NOA		(10)	08.06.2023	08 06 2023	0	08 06 2023	08.06.2023	0
	Date of	Approval		(6)	023		-	07.06.2023 08.06.2023	08.06.2023	
	Date of	Opening		@	07.06.2023	07.06.2023	0	07.06.2023	07.06.2023	
	Name of	Newspaper		9						
	Date of	Tender Invitation		9	04.06.2023	04.06.2023	0	04.06.2023	04.06.2023	0
	Approving	Authority		છ	PD	PD		PD	PD	
	Procurement	Method		(4)	RFQ	RFQ		RFQ	RFQ	
	Estimated	Cost. (Taka in Lac)		(3)	0.51	0.247		3.00	0.997	
					Plan	Actual	Deviation	Plan	Actual	Deviation
-	As per Project Document	Description of Package	((7)	Other	Stationery			Furniture	
-	As per Proj	rackage	((T)	GD/01			GD/02		

* Deviation in days (difference between plan and actual)
*Plan as per procurement plan described in project document



Information Related to Procurement of Services:

_															
ompletion	Actual	(14)	27.06.2024								27.06.2024				
Date of Completion	As per Contract	(13)	30.06.2024			30.09.2023					30.06.2024				
Actual	Payment (Tk)	(12)	2,29,75,905/-								1,46,61,165/-				
Contract	Price (Tk) & Date	(11)	2,34,98,085/-				•				1,49,94,374/-				
Date of	NOA	(10)	05.09.22	18.12.22		05.09.22					05.09.22				
Date of	Approval	(6)	04.09.22	15.11.22		04.09.22					04.09.22	15.11.22			
Date of	Opening	(8)	29.08.22	24.11.22		29.08.22					29.08.22	24.11.22			
Name of	Newspaper	(7)													
Date of	Tender Invitation	(9)	01.08.22	24.10.22		01.08.22	05.01.2023				01.08.22	24.10.22			
Approving	Authority	(5)	ADG (Planning, Design and Research)	ADG (Planning, Design and Research)		ADG (Planning, Design and Research)					ADG (Planning, Design and Research)	ADG (Planning, Design and	Research)		
Procurement	Method	(4)	SSS	SSS		SSS					SSS	SSS			
Estimated	Cost. (Taka in Lac)	(3)	251.55	237.63		68.61	67.82	-			160.83	154.63			
	··		Plan	Actual	Deviation	Plan	Actual	Deviation			Plan	Actual		Deviation	
As per Project Document	Description of Pack age	(2)	Hydrological and Morphological Model Study for Detailed	Feasibility Study for Char Stabilization and Livelihood	Development in the Jamuna River (Pilot Study: Kawakhola Char)	Physical Modelling for Detailed Feasibility Study	_		i ii	(Filot Study: Kawakhola Char)	Environmental and Social Impact Assessment Study for Detailed	Feasibility Study for Char Stabilization and	Livelihood	Development in	(Pilot Study: Kawakhola Char)
As per Project	Package No	(E)		SR/01				SR/02				SR/03			

* Deviation in days (difference between plan and actual)
*Plan as per procurement plan described in project document



C. FINANCIAL AND PHYSICAL TARGET AND PROGRESS

23. Original and Revised Financial Provision and physical Target (as per Project Document):

Financial	Finan	cial provis		hysical tar		original	Financial provision & physical target as per latest					
Year		Project Document						rev	ised Pro	oject Docu	ment	
	Total	GOB	P.A.	Self-	Others	Physical	<u>Total</u>	GOB	_P.A	Self-	Others	Physi
				finance		%				finance		cal %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2022-23 and 2023-24	490.00	490.00	-	•	•	100%	•	1	-	1	1	-
TOTAL	490.00	490.00	-	-	-	100%	-	-	-	-	-	-

24. Revised ADP allocation and progress:

Financial		Revised	Allo	cation &	target		GOB	E	xpenditur	e & pł	ysical	progres	s	Unspen
Year	Total	GOB	P.A	Self-	Others	Physical	Release	Total	GOB	P.A.	Self-	Others	Physical	
		1	.	Finance		%					Finan		%	GoB
					İ						ce			Relea
														sed
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15) =
İ														(8)-
														(10)
2022-	124.00	124.00	-	-	-	55%	120.04	114.61	114.61	-	-	-	55%	-
23														
2023-	271.00	271.00	-	-	-	30%	270.75	263.60	263.60	-	-	-	30%	7.15
24								-						
Total=	395.00	395.00	-		-	85%	390.79	378.21	378.21	-	-	-	85%	7.15
	·	l		l	<u> </u>	L		l		<u> </u>				

^{*}Attach the Proof for Reconciliation of Unspent GOB Released

^{**}To determine the physical quantity, use the formula as in the circular of Planning Division



D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT

25. Project objective, Actual achievement and Reason for shortfall (if any):

Hydrological and Morphological Model Study (Component-1):

Objectives as per Project Document	Actual achievement	Reasons for shortfall (if any)
Assess dynamics and prioritize chars in the Jamuna River for stabilization.	Assessment of dynamics and prioritization of chars in the Jamuna	
- Staumzanom.	River for stabilization are described and incorporated in Chapter 4, section 4.1, page no. 4-1 to 4-10 and section 4.3, page no. 4-27 to 4-35 of the Final Report.	
Assess the stability of the accreted char through hydromorphological assessment.	Assessment of the stability of the accreted char through hydromorphological assessment is described and incorporated in Chapter 4, section 4.3.1, page no. 4-36 to 4-39 and section 4.6.1 pages 4-51 to 4-56 of the Final Report.	·
Identify the governing factors affecting the char stability.	The governing factors of char stabilization are identified in Chapter 4 (pages 4-1 to 4-10, pages 4-27 to 4-28, pages 4-36 to 4-48 of Volume I) of the Final Report.	
Identify the suitable structural and biological/nature-based interventions.	Identification of the suitable structural and biological/nature-based interventions are incorporated in Chapter 4, section 4.7, page no. 4-60 to 4-62 of Volume I and Appendix-C, page no. C-1 to C-10 of Volume II the Final Report.	
Design structural and biological/nature-based interventions to stabilize the char.	Design of structural and biological/nature-based interventions to stabilize the char is incorporated in Chapter 4, section 4.10, page no. 4-69 to 4-73 of Volume I and Appendix-G; Volume: II of the Final Report.	
Prepare of land-use plan for char area development.	Preparation of land-use plan for char area development is incorporated in Chapter 4, section 4.9, page no. 4-64 to 4-67 of the Final Report.	



Objectives as per Project Document	Actual achievement	Reasons for shortfall (if
Assess the requirement of	Description of dredging work with	any)
dredging and prepare a dredged	cost estimation is given in Chapter 4,	
material management plan and	section 4.10, page no. 4-73 to 4-75	
efficient use of dredged	of the Final Report. The study	
material.		
	assessed multiple options including	
	the requirement for dredging and	
	concluded that dredging will not be a	
	sustainable option for this project.	
	This is detailed in Chapter 10 (page	
	10-3 to 10-10 of Volume I) of the	
Manage die delle	Final Report	
Manage the drainage and flooding problems considering	Management of the drainage and	
climate change scenario and	flooding problems considering	
future land-use.	climate change scenario and future	
	land-use is incorporated in Chapter 5	
· ·	(Page 5-1 to 5-8 of Volume I) and	
	Appendix G of the Final Report.	
Analyse factor for climate resilient and sustainable	The study emphasized climate	
resilient and sustainable development and devise	resilience through nature-based	
adaptation plan.	interventions and sustainable	
adaptation plant	infrastructure design. This is detailed	
	in Chapter 4, Chapter 5, Appendix C	
	and Appendix G (pages 4-60 to 4-	
	67, pages 4-69 to 4-70, page 4-75,	
	Page 5-1 to 5-8 of Volume I) of the	-
	Final Report,	
Assess disaster impact and	Assessment of disaster impact and	
prepare mitigation plan.	prepare mitigation plan are	
	incorporated in Chapter 5, Table 5.1,	
,	page no. 5-1 to 5-2 of the Final	
	Report.	
Develop community based early warning system.	Development of community based	
earry warming system.	early warning system is in Chapter	
	4, section 4.8, page no. 4-63 of the	!
Dunnana dha T I dad'	Final Report.	
Prepare the Implementation Plan including DPP.	A Development Project Proforma	
Train including DFF.	(DPP) is prepared and attached in	
DL	the Final Report.	
	al Modeling (component-2)	
Potential flood risk/ effect.		Physical
Afflux effects on hydraulic		Modeling
structures.		component



Objectives as per Project	Actual achievement	Reasons for shortfall (if
Document	, i	any)
Calibrate and verify		was not
mathematical models.		procured.
Provide assessment of hydraulic		
adequacy of structures.		
Provide detailed calibration of		
pertinent hydraulic structures.		
Assess the scour/deposition		
characteristics and mechanism.		
Identify internal river, khal and		<u> </u>
channel network within the char	 .	
area and future possible		
impacts.	ial Impact Aggoggment Study (Compa	mont 3)
Environmental and Soc	ial Impact Assessment Study (Compo	ment-3)
To prepare Environmental and	Environmental and social baseline	
Social baseline.	are described and incorporated in	
Social baseline.	chapter 5, page 55-157 of the final	
	report.	
To conduct an Environment and	Environment and Social Impact	
Social Impact Assessment	Assessment (ESIA) are described	
(ESIA) considering proposed	and incorporated in chapter 10, page	
interventions;.	no. 225-250 of the final report.	
Prepare a habitat map for the	Habitat suitability map for the entire	
entire Jamuna River.	Jamuna River are described and	
	incorporated in chapter 6, page no.	
	159-179 of the final report. Detailed	
	methodology, analysis and results of	
	habitat suitability are presented in	
	Appendix A.	
Develop framework for	Development of framework for	
adapting changing socio-	adapting changing socio-economic	
economic condition.	condition are described and	
	incorporated in chapter 7, section 7.4 page no. 210-213 of the final report.	
	Detailed methodology, analysis and	
	results of the framework are	
	presented in Appendix H.	
To prepare Resettlement Action	Resettlement Action Plan (RAP) was	
Plan (RAP).	not required considering the	
	proposed interventions.	
To develop Environmental	Environmental Management and	
Management and Monitoring	Monitoring Plan (EMMP) are	
Plan (EMMP) including	described and incorporated in	
biodiversity conservation plan	chapter 11, page no. 251-267 of the	
for conservation of aquatic	final report. Detailed sectorial	
resources, fisheries resources,	development plan such as	
bird sanctuaries etc.	biodiversity conservation plan,	
	afforestation plan, agricultural	
	development plan, fisheries	



Objectives as per Project Document	Actual achievement	Reasons for shortfall (if any)
	conservation and development plan, livestock development plan and tourism potentially plan are	
	described in appendix B, C, D, E, F and G respectively.	

E. BENEFIT ANALYSIS

26. Annual Out-put: Not Applicable for the Study Project.

Items of out-put	Unit	Estimated quantity expected at full capacity	Actual quantity of out-put during the 1 st year of operation at full capacity (or during, real production for newly completed project)
a)			
b)			
c)			
d)			
e)			
f)			

27. Cost/Benefit: Not Applicable for the Study Project.

Item	Estimated	Actual
(1) Benefit cost ratio of the project:		
(i) Financial		
(ii) Economic		
(2) Internal Rate of Return:		
(i) Financial		
(ii) Economic		

28. Please give reasons for shortfall, if any, between the estimated and actual benefit:



F. MONITORING AND AUDITING

29. Monitoring: Nil.

Name & Designation of the inspecting official	Date	Identified Problems	Recommendations
1	2	3	. 4
a) IMED:			
			18.449
b) Ministry/Agency:			
c) Others: (Please specify)			

30. Auditing during and after Implementation: 30.1 Internal Audit: Not conducted yet.

Period of Audit	Date of submission of Audit Report	Sl. No.	Major findings/objections and Money involved	Whether objections resolved or not (if not, mention status)
1	2	3	4	5.
Total finding and Money				

30.2 External Audit: Not conducted yet.

Period of Audit	Date of submission of Audit Report	SI. No.	Major findings/objections and Money involved	Whether objections resolved or not (if not, mention status)
1	2	3	4	5
	ngs/objections ey involved=			

G. POST-PROJECT REMARKS

31. General Observations/Remarks on the Project

31.1 Background:

Bangladesh Government has the goal/vision to be a developed country by 2041. For achieving the goal, country needs suitable lands for building industrial park, township, and inland river port. Main constraint is to obtain the land at the cost of displacement and resettlement of huge number of people. To override this constraint, land reclamation could be a very promising option from the Jamuna River.

There are number of studies which outlined the river training and channelization aspects of the Jamuna River. These includes: China-Bangladesh Joint Expert Study (CBJES) in 1990, Flood Action Plan 1 (FAP-1) study in 1993, Klaassen (2009) and Capital Dredging Study in 2012. FAP-24 discussed about the training of the Jamuna River in a single channel, width requirement is only 4 km at its bankfull stage where it is assumed that the bank material is non-cohesive. In case of cohesive bank materials or protected banks, the required width would be less.

The CBJES suggested training the river into a stable bifurcated channel by utilizing natural nodes together with the harnessing work on the mid-islands. They offer two schemes of controlling bend and node. They suggested to regulate the river by nodes and by the combination of protection of the banklines and regulation of mid-islands' stability. They also suggested for combining all the engineering works on bank protection, branch blocking, and ditch filling together for raising the surface of islands through siltation. Considering the cost of the training works, CBJES recommended bend controlling approach for the Jamuna River.

Based on the planform analysis conducted in the early 1990s, FAP-1 also proposed similar two options for a tentative planform for long-term river training works in the Brahmaputra-Jamuna River. In Option 1, the Brahmaputra-Jamuna River was proposed to be a multi-threaded river. Some hard points at the right bank along with islands protection structures were proposed in this option. In Option 2, the Brahmaputra-Jamuna was proposed to be a single threaded river, i.e. a meandering river. There were some common structures for both options. However, Option 2 showed more reduced width than Option 1.

Based on the technological development such as reduced cost in bank protection techniques using geo-bag, Klaassen (2009) proposed a channelized meandering river which will protect the river bank as well as reclaim land from riverbed.

Capital dredging study by BWDB in 2012 also suggested the minimizing of the width of the Jamuna River for the reduction of the flood, erosion as well as the improvement of the navigation through dredging and river training works. This study recommended the Jamuna River into a single channel river.

The past studies contributed significantly towards developing understanding of the complex physical processes of the Jamuna River. These studies have also indicated the need for



training of the Brahmaputra-Jamuna River and outlined the needed river training works. Based on the knowledge gained from all these researches and studies, it suggests the feasibility of channelizing the Jamuna River in a single with appropriate river training works and recent morphological development is favorable for such work.

31.2 Justification/Adequacy:

The project is relevant in terms of compliance of the project with the national master plan(s), national development goals, compliance of the project with the missions and visions of the existing government and the relevance of the project with the visions of the executing agencies. Key documents which contextualized and guided the overall design of this project, are:

- Perspective Plan of Bangladesh 2021-2041: This Plan addresses governance, human development, industry and trade, agriculture, power and energy, climate change and environment. The Plan presents a path to shift Bangladesh from a rural agrarian economy to a primarily industrial and digital economy.
- Bangladesh Delta Plan 2100: The Plan focuses primarily on the delta agenda through 2050 while reflecting the longer-term challenges of sustainably managing water, ecology, environment, and land resources in the context of natural disaster and climate change risk. The Delta Plan addresses flood control, sea level rise, water logging, river-bank erosion, irrigation, urban and rural water supply, water pollution, land reclamation, river dredging for inland water traffic, environmental protection, fisheries, and preservation of biodiversity.
- 8th Five Year Plan, FY2021 to FY2025: The 8th FY Plan initiates the transition to the goals of the Perspective Plan and is built around six themes: (i) rapid recovery from COVID; (ii) GDP growth acceleration; employment generation, and rapid poverty reduction, (iii) a broad-based strategy of inclusiveness; (iv) a sustainable development pathway that is resilient to disaster and climate change; (v) improvement of critical institutions; and (vi) achieving the United Nations 17 sustainable development goals.

Linkage with 8th Five Year Plan:

The impact (goal) of the project is aligned with these documents, and particularly the 8th Five Year Plan for "sustainable, inclusive development resilient to disaster and climate change generating employment and leading to rapid poverty reduction".

The project implementation will ensure safety from bank erosion and climate change related disaster. Implementation of this project will protect many government, non-government & socially important establishments situated at Kawakhola Char. In addition, this project will improve livelihood of the people of Kawakhola Char.



Linkage with Sustainable Development Goal (SDG):

The following goals of SDGs are related to the present study:

- Goal-3: Ensure healthy lives and promote wellbeing for all at all ages'
- Goal-6: Ensure availability and sustainable management of Water and Sanitation for

All

Linkage with Bangladesh Delta Plan 2100:

Bangladesh Delta Plan (BDP) 2100 is a water centric, multi sectoral techno-economic long term adaptive plan. Delta Vision and Goals show a broader scope (water, food, economy) leading to a holistic approach with 19 themes. Among those themes first two themes are directly related to Water resources. Those themes are-

- i) Morphological Dynamics & River Management
- ii) Water Resources

At these circumstances, a holistic approach is required to alleviate poverty and develop economic growth so that the goal of Bangladesh Delta Plan can be achieved.

31.3 Objectives:

(a) Overall Objectives:

The Overall objective of this study is to assess the char dynamics of the Jamuna River and to stabilize the potential chars for development such as Kawakhola Char through engineering and biological/nature-based interventions and propose the detailed land-use plan for land development as well as prepare the Development of Project Proforma (DPP).

(b) Specific Objectives:

The specific objectives (component-wise) of the study are:

Hydrological and Morphological Model Study (Component-1)

- Assess dynamics and prioritize chars in the Jamuna River for stabilization;
- Assess the stability of the accreted char through hydro-morphological assessment;
- Identify the governing factors affecting the char stability;
- Identify the suitable structural and biological/nature-based interventions;
- Design structural and biological/nature-based interventions to stabilize the char;
- Prepare of land-use plan for char area development;
- Assess the requirement of dredging and prepare a dredged material management plan and efficient use of dredged material;
- Manage the drainage and flooding problems considering climate change scenario and future land-use;
- Analyse factor for climate resilient and sustainable development and devise adaptation plan;
- Assess disaster impact and prepare mitigation plan;



- Develop community based early warning system;
- Prepare the Implementation Plan including DPP.

Physical Modeling as component-2

- Potential flood risk/ effect;
- Afflux effects on hydraulic structures;
- Calibrate and verify mathematical models;
- Provide assessment of hydraulic adequacy of structures;
- Provide detailed calibration of pertinent hydraulic structures;
- Assess the scour/deposition characteristics and mechanism;
- Identify internal river, khal and channel network within the char area and future possible impacts;

Environmental and Social Impact Assessment Study (Component-3)

- To prepare Environmental and Social baseline;
- To conduct an Environment and Social Impact Assessment (ESIA) considering proposed interventions;
- Prepare a habitat map for the entire Jamuna River;
- Develop framework for adapting changing socio-economic condition;
- To prepare Resettlement Action Plan (RAP);
- To develop Environmental Management and Monitoring Plan (EMMP) including biodiversity conservation plan for conservation of aquatic resources, fisheries resources, bird sanctuaries etc.
- 31.4 Project revision with reasons: Not Applicable
- 32. Rationale of the project (Consider the Concept, Design, Location and Timing):

As the land mass of Bangladesh is composed of recent deltaic deposits. The Himalayas produces huge amount of sediment and the rivers of Bangladesh have to transport it up to the sea, which results a dynamic system of river network. Most of the rivers in the delta are un-intervened or untrained. Therefore, they occupy a very large area of the densely populated country, which is not required for transporting water and sediment imposed on the rivers from the upstream. The bank line movements are very rapid causing millions of people to suffer. It restricts the development of cities and commercial centers along their banks and thereby jeopardize the country's economic development. Most of the large rivers in the world are trained and different nations are benefiting through exploiting river resources. Due to poor economy, lack of proper understanding on the river system, and unavailability of cheaper construction materials as well as lack of attention of policy makers, a very potential arena has remained unexplored in this country.

During the last 240 years, the morphology of the Jamuna River has been heavily affected by natural events in the fluvial system. During the last few decades, the Jamuna River has changed its planform which is mainly braided and multi-threaded. The planform changing



process includes changes in width, braiding intensity and extent of annual bank erosion. Presently, the length averaged width of the river is about 12 km.

The Jamuna River is one of the largest rivers in Bangladesh, covered a huge space which may not be required for the river to transport water and sediment imposed on it without substantially changing it dimensions. The people of the country do not have a very favorable experience with the river as it is responsible for severe events of erosion. However, the situation can be improved and the country can be benefited much if the river and the chars within the river could be well-managed. In such case, protection of riverbank erosion and reclamation of land will facilitate to develop new commercial centers, Eco Park, industrial parks and cities along both its banks the Jamuna as well as in the stabilized char. It is imperative to manage the Jamuna and utilize its char to alleviate poverty and develop economic growth for meeting the targets of Vision 2041.

33. Brief description on planning and financing of the project and its applicability (Consider the following issues):

33.1 Project Identification:

The Jamuna River is one of the three main rivers of riverine Bangladesh. The planform of the Jamuna River has changed over the last few decades. The average width of the river is about 12 km. Along with the huge water flow, this river also carries a large amount of silt. As a result, numerous chars have developed in most places along the river. River erosion has also increased due to this change. People are losing their houses and crop lands due to river erosion. Farmers, fishermen and other people are all losing their traditional occupations and ancestral homes.

These displaced people who have lost everything are forced to migrate elsewhere in order to survive. From the emerging situation, riverbank protection, reclaimed land and char stabilization are absolutely necessary to provide security to people's lives and property. Char Stabilization of the Jamuna River will enable construction of industrial parks, new commercial centers, Eco parks and thereby improve poverty and economic growth.

In view of the above, BWDB has decided to conduct a detailed feasibility study to assess the char dynamics of the Jamuna River and to stabilize the potential chars for development such as Kawakhola Char.

33.2 Project Preparation:

In view of the above, BWDB prepared a PFS to execute the feasibility study project.

33.3 Appraisal:

The DPEC meeting was held on 10/04/2022.

- 33.4 Credit Negotiation
- 33.5 Credit Agreement
- 33.6 Credit Effectiveness
- 33.7 Loan Disbursement
- 33.8 Loan Conditions
- 33.9 Project Approval:

The project was approved by honorable state minister, MoWR on 04/08/2022.

A

33.10 Others(specify)

- 34. Analysis of the post- implementation situation and result of the project (Consider following issues): **Not Applicable**
 - 34.1 Whether the beneficiaries of the project have clear knowledge about the Target/Objectives of the project.
 - 34.2 Programme for use of created-facilities of the project
 - 34.3 O & M Program of the project.
 - 34.4 Impact of the project (Direct & Indirect)
 - 34.5 Transfer of Technology and Institutional Building through the project.
 - 34.6 Employment generation through the project.
 - 34.7 Possibility of Self employment.
 - 34.8 Possibility of Women-employment opportunity.
 - 34.9 Women's participation in development.
 - 34.10 Probable Impact on Socio-Economic activity.
 - 34.11 Impact on environment.
 - 34.12 Sustainability of the project.
 - 34.13 Contribution to poverty alleviation/reduction.
 - 34.14 Opinion of the public representatives, local elite, local administration, teachers, religious leaders, women's representatives etc.
 - 34.15 Contribution of Micro-credit programs and Comments on overlapping with any NGO activities.
- 35. Problems encountered during Implementation (with duration & steps taken to resolve those) (Consider following issues): **Not Applicable**
 - 35.1 Project management:
 - 35.2 Project Director:
 - 35.3 Land Acquisition:
 - 35.4 Procurement:
 - 35.5 Consultancy:
 - 35.6 Contractor:
 - 35.7 Manpower:
 - 35.8 Law & Order:
 - 35.9 Natural calamity:
 - 35.10 Project financing:
 - 35.11 Allocation and release:
 - 35.12 Design formulation/approval:
 - 35.13 Project aid disbursement and re-imbursement:
 - 35.14 Mission of the development partners:
 - 35.15 Time & Cost Over-run:
 - 35.16 Project Monitoring:
 - 35.17 Delay in Decision:
 - 35.18 Transport, Training:
 - 35.19 Approval and Others:

#

36. Remarks & Recommendations of the Project Director:

This Study Project was approved by the Ministry of Water Resources (MoWR) vide memo number: 42.00.0000.039.14.013.21-146, dated: 04 August 2022. The project was accomplished in June 2024.

The overall objective of this study is to assess the char dynamics of the Jamuna River and to stabilize the potential chars for development and Kawakhola Char as piloting through engineering-and-biological/nature-based-interventions-and-propose-a-detailed-land-use plant for land development as well as prepare the Development of Project Proforma (DPP). Mainly, the study area will focus on the whole Jamuna River covering about 231 km along the Brahmaputra-Jamuna River system within Bangladesh starting from the border, from which potential areas for char development will be identified and prioritized. However, the existence of the char observed from the satellite images analysis and proximity to the nearest city along with the communication facility, Kawakhola Char was selected for piloting which could be stabilized through engineering and biological interventions. The area covers the probable potential Kawakhola char area just upstream of the Bangabandhu Bridge which is approximately 150 km2. It lies in the Kazipur and Sirajganj Sadar Upazila under Sirajganj District, Bhuapur Upazila of Tangail District, and Sarishabari Upazila of Jamalpur District as well.

The study has been framed to attain its objectives through some scope of the works. Various data collection was initiated, which encompassed a range of parameters including Bathymetric Data, Bankline Survey/ Structural information, Water Level Data, Discharge Data, Suspended Sediment Data, Hydrometric Data, Cross-section Analysis, as well as Map Collection and Processing. This study focused on geospatial analysis and mathematical modeling to assess char land stabilization in the Brahmaputra-Jamuna River aiming to provide insights into stabilization measures and livelihood development projects. Two mathematical models were developed for this study: one encompassing the entire Jamuna River, which has assisted in affirming the adequate stability of the seven char clusters targeted for stabilization initiatives and establishing their prioritization ranking. The second model has aided in delineating stabilization strategies and evaluating their efficacy for the pilot project. Detailed Environmental and Social Impact Assessment (ESIA), Disaster Impact Assessment (DIA), Habitat suitability map for the entire Jamuna River, Development of a framework for adapting to changing socio-economic conditions, Environmental Management and Monitoring Plan (EMMP) were accomplished to analyze the impact of the proposed interventions on the environment and the society of the project area.

The study area has been divided into three reaches to understand the spatial variations of the presented geospatial information. Analysis in the study shows that the braiding index diminishes with distance towards downstream. An increasing trend in the value of the braiding index for all three Reaches of the river over the study duration (1989-2022) has been observed. Upstream Channelization is found comparatively higher than downstream and channelization in the overall Jamuna River is increasing. Noticeably significant increases in both erosion and accretion occurred in the Char lands in recent years. A weighted age index has been devised for determining the age of the Chars belonging to the study area for the first time. Accumulation of higher age Chars at the downstream is noticed more than at the upstream. Study analysis further indicates that during high-magnitude floods, chars with higher weighted ages exhibit greater resilience to morphological dynamics, particularly if situated within the main channel, which is a critical observation for future planning and management strategies. This study concluded that the braiding



characteristic of the Brahmaputra-Jamuna River is increasing, bank stability has improved over the years, and char dynamics have intensified.

A database of 315 chars has been created, categorized into seven clusters based on location and stability. The chars have been classified into three Char clusters based on their potential for stabilization. In determining the possible interventions for the protection of Char Kawakhola (pilot project area) in the present study, the base model has been simulated for two different floods (1 in 100 years and 1 in 2.33 years). The base model gave an idea for selecting possible interventions which are:

- 1. Option 1: BPW at sides of char.
- 2. Option 2: BPW at sides of char + Char head protection.
- 3. Option 3: BPW at sides of char + Char head protection + Dredging.

Option 2 has been selected as the best consideration, providing significant erosion vulnerability reduction without the high costs and short-term benefits of dredging.

The recommendation for this study project is to protect 33 km of the Kawakhola Char with geobags only to stabilize Kawakhola Char. Establish flood shelters and community-based flood authorities for early warnings and emergency management. A community-based early warning system framework is proposed. Construction of additional schools, health complexes, mosques, and markets to improve local livelihoods. Expansion of road networks, establishment of resorts, and creation of river ghats to boost tourism and transportation infrastructure. A canal is proposed through the Char to facilitate navigation from the river to the countryside bank of the Char.

In conclusion, the study provides a comprehensive analysis of char stabilization in the Brahmaputra-Jamuna River, with specific recommendations for Kawakhola Char. These findings and recommendations are aimed at promoting sustainable land development and enhancing the livelihoods of local communities.

Date...

Signature and seal of the Project

Director (Nasrin Akter Khan)

Executive Engineer

Directorate of Planning-III

BWDB, Dhaka

37. Remarks/Comments of Agency Head:

Date 93:12:24

The study project aims to assess the char dynamics of the Jamuna River and to stabilize the potential chars for development. It also aims to stabilize Kawakhola Char as piloting through engineering and biological/nature-based interventions and to propose a detailed land-use plan for land development. After field investigation, satellite image analysis, and analysis of model outputs, this study recommended a database of 315 chars, categorized into seven clusters based on location and their potential for stabilization. In determining the possible-interventions-for-the-protection-of-Kawakhola-Char-(pilot-project-area), this-study-proposed 33 km of temporary bank protection work with geobags only to stabilize Kawakhola Char. This study also proposed a community-based early warning system for emergency flood management of Kawakhola Char. Construction of additional schools, health complexes, mosques, and markets are also recommended to improve the livelihoods of the communities of Kawakhola Char. A canal is proposed through Kawakhola Char to facilitate communication from the left channel to the right channel of the river. It is expected that the implementation of the proposed interventions will promote sustainable land development and enhance the livelihoods of the local communities of Kawakhola Char.

				Head	(Muhammad Amirui nay bilulya) DNo. 660118001 Director General BWDB, Dhaka.
	D 1.6				
38.	Remarks/Comi	nents of the Secre	tary/Senior Secr	etary of the	Ministry/Division:
	he project has bee er recommendation		y and subsequent	investment	project will be taken as
			t		
					·

Signature and seal of Agency

Signature

Secretary

seal

and

of

ব্যাংকের কপি

টি,অবে,ফরম নং-৬ (৪) (এস আর অনুচ্ছেদ ৩৭ দ্রষ্টব্য)

জনতা ব	বাাংক	লিমিটেড,	গ্রীনরোড	কর্পোরেট	শাখা	শাখায়	টাকা	জ্মা	দেওয়ার	চালান
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	যে সরকারি প্রতিষ্ঠানের অন্কুলে অর্থ জমা হচ্ছে	যার মাধ্যমে টাকা প্রদত্ত হলো তার নাম, সমাক্তকরণ মম্বর ও ঠিকানা	যে ব্যক্তির/প্রতিষ্ঠানের পক্ষ হতে টাকা প্রদত্ত হলো তার নাম, সনাক্তকরণ মন্তর ও ঠিকানা	চালান নং	কি বাবদ জমা দেওয়া হলো তার বিবরণ	জ্মার পরিমাণ
- 1	मक्षणास	২৩৯৬০৭৭৯৮০ বাসা/হোভিং: মৌসুমী সি ৪/৬,বাপাউবো অফিসার্স	131016000-বাংলাদেশ পানি উয়য়ন বোর্ড,131016000-BANGLADESH WATER DEVELOPMENT BOARD ***Identity not shown***		১৪৪১২০২-পূর্ববর্তী অর্থবছরের অতিরিক্ত গৃহীত অর্থ ফেরভ	५५९,२७४.००

নতুন কোড: ১৪৭০১০১১৩০২১৭-১১০০০০০০০-১১০০১০০০-১৪৪১২০২ জন্যান্য বিবরণ/মন্তব্য (যদি থাকে): JOMUNA NODIR CHORER SHTISHILOTA O JIBIKAYON PROKOLPER BISTARITO SOMVABBOTA SOMIKKHA(PILOT STUDY:KAUAKHALI CHAR),PROJECT CODE NO;২২৪৩৬২৩০০,RECURRING UNSPENT TK.:٩১৫২৩৮,CAPITAL UNSPENT TK.:٥.٥०,TOTAL UNSPENT TK .: 93020+ FOR THE FY 2020 - 28

মোট (অংকে) = ৭১৫,২৩৮.০০

টাকা (কথায়): সাত লক্ষ পনের হাজার দুই শত আটত্রিশ টাকা

তারিখ: ২২/০৮/২০২৪ খ্রি.

এটি একটি সিস্টেম জেনারেটেড ঢালান, কোন স্বাক্ষর প্রয়োজন নেই।

গ্রাহকের কপি

টি,আর.ফরম নং-৬ (৪) (এস আর অনুচ্ছেদ ৩৭ দুটবা)

চালান ফরম

জনতা ব্যাংক লিমিটেড, গ্রীনরোড কর্পোরেট শাখা শাখায় টাকা জমা দেওয়ার চালান



যে সরকারি প্রতিষ্ঠানের অনুকূলে অর্থ জমা হচ্ছে	যার মাধ্যমে টাকা প্রদন্ত হলো তার নাম, সনাক্তকরণ নম্বর ও ঠিকানা	যে ব্যক্তির/প্রতিষ্ঠানের পক্ষ হতে টাকা প্রদত্ত হলো তার নাম, সনাক্তকরণ নম্বর ও ঠিকানা	চালান নং	কি বাবদ জমা দেওয়া হলো তার বিবরণ	জমার পরিমাণ
भद्धभागस	২৩৯৬০৭৭৯৮০ যাস্যা/হোল্ডিং: মৌসুমী সি ৪/৬,বাপাউবো অফিসার্স	131016000-বাংলাদেশ পানি উয়য়ন বোর্ড,131016000-BANGLADESH WATER DEVELOPMENT BOARD '''Identity not shown'''		১৪৪১২০২-পূর্ববর্তী অর্থবছরের অতিরিক্ত গৃহীত অর্থ ফেরত	9 3 6, 30 6,00

নতুন কোড: ১৪৭০১০১১৩০২১৭-১১০০০০০০-১১০০১০০০-১৪৪১২০২ অন্যান্য বিবরণ/মন্তব্য (যদি থাকে): JOMUNA NODIR CHORER SHTISHILOTA O JIBIKAYON PROKOLPER BISTARITO SOMVABBOTA SOMIKKHA(PILOT STUDY:KAUAKHALI CHAR),PROJECT CODE NO;২২৪৩৬২৩০০,RECURRING UNSPENT TK.:٩১৫২৩৮,CAPITAL UNSPENT TK.:٥.٥०,TOTAL UNSPENT TK .: 93@206 FOR THE FY 2020 - 28

মেটি (অংকে) = ৭১৫,২৩৮.০০

টাকা (কথায়): সাত লক্ষ পদের হাজার দুই শত আটত্রিশ টাকা

তারিখ: ২২/০৮/২০২৪ খ্রি.

এটি একটি সিস্টেম জেনারেটেড চালান, কোন স্বাক্ষর প্রয়োজন নেই।

কি বাবদ জমা দেওয়া

হলো তার বিবরণ

১৪৪১২০২-পূর্ববর্তী অর্থনছরের

অভিরিক্ত গৃহীত ঋর্য ফেরত

ठालान नः

\$8\$@-000@\$@\$#o}}

যার মাধ্যমে টাকা প্রদত্ত হলো তার নাম,

भनोक्तकत्रण नम्रत ७ ठिकाना

বাসা/হোন্ডিং: মৌসুমী সি ৪/৬,বাপাউবো অফিসার্স

কোমাটার, গ্রাম/রাস্তা: ১১, ডাকঘর: বনানী-1213,

মোঃ জাকিরুল ইসলাম

২৩৯৬০৭৭৯৮০

সচিবালয়, পানি সম্পদ মন্ত্রণালয় -এর

কপি

টি.আর.ফরম নং-৬ (৪) (এস আর অনুচেছদ ৩৭ দুটব্য)

যে সরকারি প্রতিষ্ঠানের

অনুকূলে অৰ্থ জমা হচ্ছে

महिदालग्न, পानि मन्थप

श्चुनासग्र

চালান ফরম



জমার পরিমাণ

930,206.00

জনতা ব্যাংক লিমিটেড. গ্রীনরোড কর্পোরেট শাখা শাখায় টাকা জমা দেওয়ার চালান

যে ব্যক্তির/প্রতিষ্ঠানের পক্ষ হতে টাকা প্রদত্ত

হলো তার নাম, সনাক্তকরণ নম্বর ও ঠিকানা

রোর্ছ 131016000 BANGLADESH WATER

131016000-वाःलाएम्भ शानि উग्नरान

DEVELOPMENT BOARD

Identity not shown*

উপজেলা: বনানী, জেলা: ঢাকা, বিভাগ: ঢাকা নতুন কোড: ১৪৭০১০১১৩০২১৭-১১০০০০০০০-১১০০১০০০-১৪৪১২০২ অন্যান্য বিবরণ/মন্তব্য (যদি থাকে): JOMUNA NODIR CHORER SHTISHILÖTA O JIBIKAYON PROKOLPER BISTARITO SOMVABBOTA SOMIKKHA(PILOT STUDY:KAUAKHALI CHAR),PROJECT CODE NO;३२8७५२७००,RECURRING UNSPENT TK.:٩১৫२७৮,CAPITAL UNSPENT TK.:٥.٥०,TOTAL

মোট (অংকে) = ৭১৫,২৩৮.০০

টাকা (কথায়): সাত লক্ষ পনের হাজার দুই শত আটত্রিশ টাকা

তারিখ: ২২/০৮/২০২৪ খ্রি.

এটি একটি সিস্টেম জেনারেটেড চালান, কোন স্বাক্তর প্রয়োজন নেই।

UNSPENT TK 193030H FOR THE FY 3030 - 38

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