2023-24

BANGLADESH WATER DEVELOPMENT BOARD

PROJECT COMPLETION REPORT: IMED-04/2024

Name of the Project:	**Feasibility Study for Integrated Water Resource Management & Development of Polder no- 73/1(A+B) & 73/2 under Hatiya upazila in Noakhali District.**

PROJECT PERIOD: July 2022 to June 2024

Office of the Chief Engineer, Planning

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

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

A. PROJECT DESCRIPTION

01.	Name of the Project	:	Feasibility Study for Integrated Water Resource Management & Development of Polder no-73/1(A+B) & 73/2 under Hatiya upazila in Noakhali District.
02.	Administrative Ministry/Division	:	Ministry of Water Resources (MoWR)
03.	Executing Agency	:	Bangladesh Water Development Board (BWDB)
04.	Planning Commission Sector/Division		Environment, Climate change and Water resources
05.	Type of Project (Investment/Technical/Feasibility Study): Feasibility Study		
06.	Location of the Project (As per Project Document):		

Sl. No	Division	District	City Corporation/ Municipality/Upazila
	Chattogram	Noakhali	Hatiya

07. Estimated Cost, Implementation Period and Approval: (In Lakh Taka)

Subject	Approved Estimated Cost				Implementation Period	Date of Approval	Approved by
	Total	GOB (Foreign Exchange)	PA (RPA)	Self-finance			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Original	380.00	380.00	-	-	July 2022-June 2023	18.07.2022	Ministry of Water Resources
1st No Cost Extension (If Applicable)	380.00	380.00	-	-	July 2022-June 2024	04.04.2023	Ministry of Water Resources

08. Objective of the Project

The overall objective of this project is to carry out a holistic and integrated study in devising a plan for strengthening of coastal embankment, drainage improvement, erosion protection, prevention of saline water intrusion and land reclamation of polder no: 73/1(A+B) & 73/2 considering technical, environmental and social aspects.

The study would be conducted in two components, technical study (hydrological and hydraulic) as component-1 and environmental and social impact study as component-2. Morphological analysis would be considered based on the outputs of feasibility study named "Mathematical Model Study for Integrated Development and Sustainable Management Plan of Shahbazpur Channel of Lower Meghna River".

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

Technical (hydrological and Hydraulic) study (Component-1)
The objectives are to;

- Identify erosion and inundation problem due to cyclonic storm surge and breaching of embankment, prevailing problems of sedimentation in khals and rivers, and evaluate the performance of over-all drainage situation in Hatiya;
- Propose suggestive measures of strengthening of polder 73/1(A+B) & 73/2; remedial measures to solve drainage problems, rehabilitate internal drainage canals and sluices,
- Assess the need of dredging, dredging alignment & dredging volume with design and prepare dredged material management plan;
- Prepare drainage plan for Hatiya Channel;
- Prepare a holistic and integrated plan for improved water resource management of Hatiya island considering climate change and sea level rise;
- Find suitable options for connectivity between Hatiya and Nijhum Island;
- Prepare a plan for protection of accreted land using nature-based solutions;
- Assess the viability of tourism and prepare a development plan in the project area accordingly;
- Propose necessary recommendations excluding any types of infrastructure at Damar Char on the east side of Hatiya Island as due to its geographical location it is considered as a sanctuary for migratory birds.
- Prepare Design and cost estimate of proposed interventions;

Environmental and Social Impact Assessment (ESIA) Study (Component-2)
The overall objective of the ESIA study is to assess the impacts of the proposed interventions on the environmental and social components and suggest an environmental management plan for sustainable development of the project. The ESIA would ensure to involve beneficiaries in project conceptualization, Planning and Implementation. The study will assess the biophysical and socio environmental impact with recommendation of appropriate mitigation plan in the project area and to prepare report on ESIA to obtain necessary clearances from the Department of Environment (DoE). The specific objectives of the consultancy service are following:

The specific objectives are:

- Provide a consistent and common basis for the application of ESIA to protect environment by ensuring that the project is environmentally sound.
- Identifying, quantifying and evaluating the potential environmental consequences so that the impacts before implementation of the project & impacts of the projects are highlighted. The negative impacts would be addressed in a way conserving the society and environment.
- Ensure that all development with full consideration for economic and environmental optimization, and for a long-term sustainability and equitability of environmental resource conservation.

09.Background of the Project (In brief):

Most coastal areas of the world are now at risk from natural hazards such as cyclones, storm surges, beach erosions, tsunamis, sea level rises, and so on, resulting from geological and meteorological disturbances. In Bangladesh, during premonsoon and post-monsoon periods cyclone and tidal surges are considered the most catastrophic phenomena in coastal regions, including islands. Most coastal island residents of

Bangladesh have been facing cyclones for centuries. Hatiya is an island in the northern Bay of Bengal, Bangladesh, at the mouth of the Meghna river. The Island falls under Hatiya Upazila of Noakhali District. The island has an area of 480 km^2. Other major offshore islands of this region are Bhola Island (which is the largest) and Manpura Island. All of these islands are densely populated. It is frequently subject to cyclones and destructive sea waves.

Hatiya is prone to multiple natural hazards such as tropical cyclones, storm surge, coastal erosion and sea level rise due to global warming and climate change. Cyclones with two to four- meter-high tidal surges hit the island every year. In 2021, atleast 25 villages of hatiya island have been flooded as water was flowing 3 to 4 feet above the normal tide in the rivers adjacent to the upazila due to the impact of cyclone Yaas.

Since Bay of Bengal is the hotspot for tropical cyclones, therefore the study area had experienced several cyclones in past decades. Often these cyclones were devastating and caused loss of lives as well as damage to substantial amount of properties Landscape morphology of this island mostly exhibits low lying flat and to some extent undulating topography. The ground level in Hatiya is 10 m above the mean sea level; therefore the coastal community has been hampered by seasonal tidal inundation and subsequent salinity intrusions, especially in the dry season when the flow of river water diminishes. The residents are extremely vulnerable to future sea level rise. Natural disasters The devastating cyclone and tidal bore on 12 November 1970 caused death of more than one lakh people of the coastal area. It also caused heavy damages to settlements, livestock and crops of the region.

Bangladesh is extremely vulnerable to climate change. The coastal areas of Bangladesh are highly prone to floods, cyclones and storm surges, coastal erosion, salinity intrusion, drainage congestion etc. Under this circumstance, a comprehensive study is required on Hatiya island to assess the erosion vulnerability of the islands at present and future due to climate change impact and planning for improved water management system.

A development project proposal (DPP) has been prepared in connection with Rehabilitation of of polder no-73/1(A+B) & 73/2 with Right Bank protection of Meghna River (Hatiya Chhanel) at Hatiya upazila under Noakhali district. The proposal has been sent to Ministry of Water Resource. A review meeting on the prepared DPP was held in Ministry of Water resource on 06- 08-2020, presided by the Honorable Senior Secretary. A technical committee was formed as per the decision of the meeting. Then a DPP has been formulated based on the report of the technical committee. The feasibility of the project must be done before taking any investment project with an estimated cost of over TK. 50 crore. Since the estimated cost of the project is about Tk. 2132.99 crore, it is necessary to verify the feasibility of the project

10.Major Activities:

Component wise activities and the scope of work for the assignments are as follows (but not limited to):

Component-1: Technical (hydrological and hydraulic) Study

A. Data collection, survey and analysis:

- Collection and review of existing data, maps, satellite images and relevant available study reports;
- Conducting field visit, reconnaissance survey and local stakeholder consultations;
- Cross-section survey of internal drainage channels and topographic survey of Hatiya island;
- Update the inventory of BWDB's structures with functionality at Polder 73/1(A+B) & 73/2;

B. Assessment of hydrological characteristics:

- Review of the relevant past studies;

- Collection of hydrological information in and around Hatiya island; such information would include water levels in and out of the polder, discharge along drainage channels on necessity;
- Review the proposed interventions regarding strengthening of polder 73/1(A+B) & 73/2 using morphological model outputs under "Mathematical Model Study for Integrated Development and Sustainable Management Plan of Shahbazpur Channel of Lower Meghna River"
- Assessment of wave characteristics in the study area;
- Establishment of baseline condition on tide, current, wave and sediment transport along the coast;
- Analysis of spatial and temporal sediment circulation, wave, wave breaking pattern in consideration with the future development;
- Identification of reasons behind erosions and sedimentation based on the analysis of data and model results;
- Assessment of erosion vulnerability of the existing embankment; formulation of erosion mitigation options and examination of effectiveness of the options;

C. Planning and design:

- Development of hydrological & hydrodynamic model to investigate drainage condition of Polder 73/1(A+B) & 73/2; Develop strengthening plan of polder 73/1(A+B) & 73/2 and provide suggestive measures;
- Devise potential options for improved water resource management plan through hydrological analysis and consultation with BWDB & local stakeholders;
- Propose necessary recommendations excluding any types of infrastructure at Damar Char on the east side of Hatiya Island as due to its geographical location it is considered as a sanctuary for migratory birds.
- Check baseline drainage condition, generate different options (based on events of different scales), identify adequacy of drainage sluices and propose remedial measures in dealing with drainage challenges,
- Devise potential options for keeping Hatiya, Tentulia, Shahbajpur and Sandwip Channel alive for proper drainage system of Hatiya island.

- Fix dredging alignment, determine capital and maintenance dredging volume and prepare dredged material management plan

- Make necessary recommendations after checking whether all internal canals of Hatiya Island need to be kept functional.

- Assess the prospect of constructing Harbour at suitable location (at the mouth of the canals/khals).

- Assess the prospect of polderization Nijhum island separately or connecting Hatiya sland with Nijhum island through suspension Bridge.
- Analyze the morphological changes in the project area for connecting Hatiya and Nijhum Island;
- Assessment of land reclamation, mangrove plantation in the reclaimed land; Propose scopes for tourism and afforestation program;
- Design of proposed interventions;
- Integration of the outcomes of Component-II to formulate the Feasibility Report/Study.

D. Cost Estimation and Economic Analysis

- Preparation of cost estimate of the project works as per DPP format on the basis of recent actual schedule of rates.

- Estimation of Benefits to be derived after implementation of the proposed project.
- Estimation of BCR, EIRR, NPV of the proposed development Plan.

E. Workshop & Reports

- Conduct Stakeholder consultation, workshop and other types of mass discussion session for communicating with local stakeholders and disseminating the study outputs.
- Preparation of feasibility study reports.

Environmental and Social Impact Study (Component-2)

- The baseline scenario of the entire project area concerning critical environmental and social components is necessary to be sorted out. All influencing factors in terms of environmental and social parameters are to be demarcated precisely.
- Proposed interventions might have negative impacts on society and the environment in the projec area. Moreover, the proposed interventions might have impacts on the environmental and socia components that need to be assessed at the planning stage for preparing an Environmenta Management Plan (EMP). Implementation of the proposed EMP would contribute to the sustainability of the project. To be specific, the below-mentioned tasks need to be addressed unde the study approach:
- Collection and review of existing data, maps, information and past relevant studies from the secondary sources;
- Carry out environmental survey works including measurement of environmental quality parameters in the study area, fish market survey etc.; Conduction of socio-environmental survey through appropriate tools & process (such as Focus Group Discussions (FGD), Key Informant Interview (KII), consultation meetings etc.) to establish important environmental and social issues and to identify important environmental and social components;
- Collection of all the proposed interventions recommended by the consultant employed to conduct technical study at the same study area.
- Selection of important environmental and social components presently being impacted and of course likely to be addressed by the proposed interventions;
- Propose necessary recommendations excluding any types of infrastructure at Damar Char on the east side of Hatiya Island as due to its geographical location it is considered as a sanctuary for migratory birds. A detailed ToR should be prepared for DoE approval; it should be included in Inception report. The ToR would specially focus on the adverse impacts of high magnitude. Attention should also be given to cumulative and residual impacts.

- Preparation of Environmental Impact Assessment (EIA) report following approved format of DoE, and presentation of EIA report at the DoE in getting requisite clearance certificate thereof.
- Development of Environmental Management Plan (EMP) which should include (1) Mitigation plan, (ii) Enhancement plan, (iii) Compensation plan and (iv) Monitoring Plan. Identification of the opportunities of Blue Economy (Mangrove Forest, Fisheries, Oysters, Salt Production, etc) and prepare a sustainable plan;
- Dissemination of the study results to the stakeholders by arranging workshop and mass consultation sessions, and
- Establishment of physical, biological and social baseline conditions
- Selection of Valued Environmental Component (VEC)
- Environmental and social impact assessment and planning of mitigation measures
- Formulation of Environmental Management Plan & Environmental monitoring program
- Preparation of study report compiling technical, social, environmental and economic aspects.
- Preparation of Cost estimates for implementation of Environmental Management Plan.

Project Assessment with respect to Environmental Sustainability, Climate Resilience, and Disaster Risk Analysis

- Assessment of environmental, disasters and climate change impacts or risk from the projects;
- Planning the counter measures to reduce/mitigate these negative impacts:
- Determination of costs for reducing/mitigating the negative impacts
- Finding alternative ways of the project deliverables without incurring these environmental costs;
- Selecting contingency plan for emergency disaster management;
- Determination of the rehabilitation period after, remaining risks and adequate risk reduction measures.

Workshop & Reports

- Conduct Stakeholder consultation, FGD, KII, workshop and other types of mass discussion session for communicating with local stakeholders and disseminating the study outputs.
- Preparation of study reports

11. Reasons for Revision (if applicable): **Not Applicable**
    - 1st Revision:
    - 2nd Revision

11.1 Reasons for No-Cost Time Extension (if applicable):
    - 1st time No-Cost Time Extension

The study location (Hatiya) is an isolated island far from the mainland and situated in the estuary. Accessibility of Hatiya, one of the most disaster-prone islands in Bangladesh, has many layers of challenges. IWM is conducting survey operations in a challenging environment that consumed many times. It is necessary to extend the project duration considering the distance from the mainland & poor accessibility and smoothly meet all components of the ToR..

12. Financing Arrangement (Source-wise):

12.1 Status of Loan/Grant

a) Foreign Financing: **Not Applicable**

Source (s)	Currency as per Agreement	Amount in US$ (million)	Nature (Loan/Grant/supplier's credit)	Date of Agreement	Date of Effectiveness	Date of Closing	
						Original	Revised
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

b) GOB:

Total amount	Loan	Grant	Cash Foreign Exchange
(1)	(2)	(3)	(4)
380.00	-	380.00	-

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 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)

12.3 Reimbursable project Aid (RPA): **Not Applicable**

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

B. IMPLEMENTATION POSITION

13. Implementation Period:

Implementation Period as per Project Document		Actual implementation	Time Over-run (% of original implementation period	Remarks
Original	Latest Revised			
(1)	(2)	(3)	(4)	(5)
July 2022-June 2023 (12 months)	July 2022-June 2024 (24 months)	July 2022-June 2024 (24 months)	100.00%	The study location (Hatiya) is an isolated island far from the mainland and situated in the estuary. Accessibility of Hatiya, one of the most disaster-prone islands in Bangladesh, has many layers of challenges. IWM is conducting survey operations in a challenging environment that consumed many times. It is necessary to extend the project duration considering the distance from the mainland & poor accessibility and smoothly meet all components of the ToR.

14. Cost of the Project:

Description	Estimated Cost		Actual expenditure	Cost over-run (% of original cost)	Remarks
	Original	Latest revised			
(1)	(2)	(3)	(4)	(5)	(6)
Taka	380.00	-	324.54	-14.59%	The actual expenditure was less than the estimated cost.
Total	380.00	-	324.54	-14.59%	

15. Information regarding Project Director (s):

Name, Main Designation & Grade. Mobile Number (From Beginning)	Full time (Yes/ No)	Part time (Yes/ No)	Responsible for more than one project	Period.		Remarks
				Joining	Transfer	
Liton Kumar Sarker Superintending Engineer (Civil) Office of the Chief Engineer (Civil) Planning BWDB, Dhaka Grade-4 (50,000-71,200)	Yes	No	No	21/08/2022	22/02/2023	
A.K.M. Saifuddin Superintending Engineer (Civil) Office of the Chief Engineer (Civil) Planning BWDB, Dhaka Grade-4 (50,000-71,200)	Yes	No	No	22/02/2023	Till date	

16. Personnel:

16.1 Personnel of Project implementation Unit (PIU): **Not Applicable**

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

*There was no provision of additional manpower in the approved PFS for conducting the project. So, existing officers and staffs of the Project Director's office i.e. Officer of the Chief Engineer (Civil) Planning, BWDB executed the project.

16.2 Personnel Required after the Project Completion: **Not Applicable**

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

17. Training (Foreign/Local): **Not Applicable**

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

(PD= Project Document)

18. Component-wise Progress (As per latest approved Project Document): N/A

Name of Component	Unit	Quantity	Estimated Cost (Taka in Lac)					Actual Progress (Taka in Lac)				
			Total	GOB	PA	Self-finance	Others	Total	GOB	PA	Self-finance	Others
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(a) Revenue:												
1. Technical (Hydrological and Hydraulic) study (Local Professionals 32.00 Man-month)	MM	32	260.15	260.15	-	-	-	212.96	212.96	-	-	-
2. Environment and Social Impact Study (Local Professionals 20.00 Man-month)	MM	20	114.53	114.53	-	-	-	107.59	107.59	-	-	-
3. Other Stationery	LS	-	1.32	1.32	-	-	-	1.32	1.32	-	-	-
4. Domestic Travel expense	LS	-	2.00	2.00	-	-	-	0.71	0.71	-	-	-
Sub-total (Revenue)			**378.00**	**378.00**	**-**	**-**	**-**	**322.58**	**322.58**	**-**	**-**	**-**
(b) Capital												
1. Computer and accessories	pc	2	2.00	2.00	-	-	-	1.96	1.96	-	-	-
Sub-total (Capital)			**2.00**	**2.00**	**-**	**-**	**-**	**1.96**	**1.96**	**-**	**-**	**-**
Total a+b (Revenue+ Capital)			**380.00**	**380.00**	**-**	**-**	**-**	**324.54**	**324.54**	**-**	**-**	**-**

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
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Car							
Jeep							
Microbus							
Minibus							
Bus							
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	Number of Deliverables		Remarks
	As per Project Document	As per contract		As per Project Document	Actual	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
a) Local:						
Technical (Hydrological and Hydraulic) study as Component-1 (Consultant-IWM)	32	32		4 (Inception Report, Interim Report, Draft Final Report, Final Report)	4 (Inception Report, Interim Report, Draft Final Report, Final Report)	
Environment and Social Impact Study as Component-2 (Consultant-CEGIS)	20	20		4 (Inception Report, Interim Report, Draft Final Report, Final Report)	4 (Inception Report, Interim Report, Draft Final Report, Final Report)	
b) Foreign:	-	-	-			

21. Infrastructure/Erection/Installation Tools & Equipment:

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)
Laptop	2 nos	2 nos 21/06/23	-	-	2 nos.	Used by Office of the Chief Engineer, Planning, BWDB office for official works
printer	2 nos	2 nos 21/06/23	-	-	2 nos.	Used by Office of the Chief Engineer, Planning, BWDB office for official works

22. Procurement of Goods, Works and Services:

22.1 Information on packages:

a) Total number of packages as per Project Document: 4 (Goods- 2, Works-N/A, Services- 2)

b) Total number of packages procured: 4 (Goods- 2 Works-N/A, Services- 2)

c) Reason for not procuring (if any):

d) Number of packages for which the estimated cost is more than 1% of the estimated cost of the project: N/A

22.2 Detailed Package-wise information of Goods, Works and Services (For each case the highest 50 (fifty) packages) (Please use the format as in Annexure-l (a), l(b) and l(c))

Information Related to Procurement of Goods:

As per Project Document			Estimated Cost. (Taka in Lac)	Procurement Method	Approving Authority	Date of Tender Invitation	Name of Newspaper	Date of Opening	Date of Approval	Date of NOA	Contract Price & Date	Actual Payment	Date of Completion	
Package No	Description of Package												As per Contract	Actual
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
H-1	Supply of stationery	Plan	1.32	RFQ	SE	-		-	-	-	131600	131600	07/07/2023	22/06/2023
		Actual	1.32	RFQ	PD	13/06/2023		19/06/2023	19/06/2023	19/06/2023				
		Deviation												
H-2	Supply of Laptop, printer and accessories	Plan	2.00	RFQ	SE	-			-	-	196000	196000	07/07/2023	21/06/2023
		Actual	2.00	RFQ	PD	15/06/2023		20/06/2023	20/06/2023	20/06/2023				
		Deviation												

Information Related to Procurement of Services:

As per Project Document			Estimated Cost. (Taka in Lac)	Procurement Method	Approving Authority	Date of Tender Invitation	Name of Newspaper	Date of Opening	Date of Approval	Date of LOA	Contract Price & Date	Actual Payment	Date of Completion	
Package No	Description of Pack age												As per Contract	Actual
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
H-A	Technical (Hydrologic al and Hydraulic) Study	Plan	260.15	SSS (National)	ADG (Planning, Design and Research)	30/06/22		28/07/22	07/08/22	-	2,56,99,709/- 12/12/22	25699709/-	30/06/23	30/06/23
		Actual	260.15	SSS (National)	ADG (Planning, Design and Research)	29/09/22		09/11/22	01/12/22	07/12/22				
		Deviation	-	-		91 days		43 days	116 days	-				
H-B	Environment al and Social Impact Study	Plan	114.53	SSS (National)	ADG (Planning, Design and Research)	30/06/22		28/07/22	07/08/22	-	11,004,007/- & 15/12/22	11,004,007/-	30/06/23	30/06/23
		Actual	114.53	SSS (National)	ADG (Planning, Design and Research)	29/09/22		09/11/22	01/12/22	07/12/22				
		Deviation				91 days		43 days	116 days					

C. FINANCIAL AND PHYSICAL TARGET AND PROGRESS

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

Financial Year	Financial provision & physical target as per original Project Document						Financial provision & physical target as per latest revised Project Document					
	Total	GOB	P.A.	Self-finance	Others	Physical %	Total	GOB	P.A.	Self-finance	Others	Physical %
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
2022-23	73.60	73.60	-	-	-	55.00%	-	-	-	-	-	-
2023-24	250.94	250.94	-	-	-	38.42%	-	-	-	-	-	-

24. Revised ADP allocation and progress:

Financial Year	Revised Allocation & target						GOB Release	Expenditure & physical progress						Unspent * GoB Released
	Total	GOB	P.A.	Self-Finance	Others	Physical %		Total	GOB	P.A.	Self-Finance	Others.	Physical %	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)= 8-10
2022-23	76.00	76.00	-	-	-	55.00%	76.00	73.60	73.60	-	-	-	55.00%	2.40
2023-24	262.00	262.00	-	-	-	38.42%	262.00	250.94	250.94	-	-	-	38.42%	11.06

*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):

Objectives as per Project Document	Actual achievement	Reasons for shortfall (if any)
Identify erosion and inundation problems due to cyclonic storm surge and breaching of embankment, prevailing problems of sedimentation in khals and rivers, and evaluate the performance of over-all drainage situation in Hatiya;	Completed. Erosion problems of the study area are presented in Final Report Section 3.1.1 & 3.1.2. Inundation and cyclonic storm surge problems are presented in Section 3.1.3. Sedimentation of khals and over-all drainage situation are presented in Section 3.1.4 & 3.1.5.	
Propose suggestive measures of strengthening of polder 73/1 (A+B) & 73/2; remedial measures to solve drainage problems, rehabilitate internal drainage canals and sluices;	Completed. Strengthening measures of polder 73/1 (A+B) & 73/2 are presented in Final Report Section 3.3.1 & 3.3.2. Remedial measures to solve drainage problems and rehabilitate internal drainage canals and sluices are presented in Final Report Section 2.3.5, 3.3.3, 3.3.4, 3.3.5, and Section 4.2.4.	
Assess the need of dredging, dredging alignment & dredging volume with design and prepare dredged material management plan;	Completed. Dredging Alignment and dredging volume with design are presented in Final Report Section 3.3.3. Dredged material management plan is presented in Section 3.3.6.	
Prepare drainage plan for Hatiya Channel;	Completed. Thalweg line along Hatiya Channel with bathymetry for Hatiya Channel are presented in Final Report Section 2.3.1. Morphological Changes around Hatiya Channel is presented in Final Report Executive Summary E2.	
Prepare a holistic and integrated plan for improved water resource management of Hatiya island considering climate change and sea level rise;	Completed. An integrated plan for sustainable water resource management in Hatiya Island, addressing climate change and sea level rise is presented in Final Report Section 2.3.5, 3.1.5, 10.1 & 10.2.	
Find suitable options for connectivity between Hatiya and Nijhum Island;	Completed. Connectivity options between Hatiya and Nijhum Island, including potential solutions such as bridges, are presented in Final Report Section 3.3.9 of the report.	
Prepare a plan for the protection of accreted land using nature-based solutions;	Completed. A plan for the protection of accreted land using nature-based solutions has been prepared and is detailed in Final Report Section 3.3.7 & 4.2.1 of the report.	

Objectives as per Project Document	Actual achievement	Reasons for shortfall (if any)
Assess the viability of tourism and prepare a development plan in the project area accordingly;	Completed. The viability of tourism in the project area has been assessed, and a corresponding development plan has been prepared, as detailed in Section 3.3.8 of the Final report	
Propose necessary recommendations excluding any types of infrastructure at Domar Char on the east side of Hatiya Island as due to its geographical location it is considered as a sanctuary for migratory birds;	Completed. Recommendations excluding infrastructure at Domar Char, a sanctuary for migratory birds, are provided in ESIA Report and Section 3.3.9 of Final Report.	
Prepare Design and cost estimate of proposed interventions;	Completed. Design of proposed interventions is provided in Final Report Section 3.3.2, 3.3.3, 3.3.4 & "Appendix C: Detailed Design Drawing". Cost estimate of proposed interventions is presented in Final Report Section 4.4 & "Appendix B: Economic Analysis".	
ESIA		
Provide a consistent and common basis for the application of ESIA to protect the environment. Ensuring that the project is environmentally sound.	Completed. A common and consistent basis for the application of ESIA has been prepared and presented in the in Final Report Chapter 2. ESIA study itself ensure the project is environmentally sound. To ensure this mitigation measure and recommendation has been provided in Final Report chapter 10 and 13.	
Identifying, quantifying, and evaluating the potential environmental consequences so that the impacts before implementation of the project & impacts of the projects are highlighted. The negative impacts would be addressed in a way that conserves the society and environment.	Completed. Potential environmental impact and mitigation measure shows in Final Report Chapter 8, 9, and 10.	
Ensure that all development with full consideration for economic and environmental optimization and for long-term sustainability and equitability of environmental resource conservation.	Completed. The study identifies potential impact and provide mitigation measure, monitoring plan and recommendation to ensure sustainability Presented in Final Report Chapter-9, 10, and 13.	
Specific objecives		
Establish the environmental and social baseline conditions of the specified project;	Completed. Environmental and social baseline provided in Chapter 5.	
Obtain information on the proposed interventions;	Done, proposed intervention information collected from feasibility team and provided in final report Chapter 4.	
Select important environmental and social components presently being	Done Important environmental and social components	

Objectives as per Project Document	Actual achievement	Reasons for shortfall (if any)
impacted and of course likely to be addressed by the proposed interventions	have been identified in final report Chapter-8.	
Identify the opportunities of Blue Economy (Mangrove Forest, Fisheries, Oysters, Salt Production, etc) and prepare a sustainable plan	Done Opportunity and sustainable plan of blue economy in Hatiya identified and presented in Final report Appendix-VII.	
Assess environmental and social impacts of proposed project interventions	Done Environmental and Social impacts have been assessed and presented in Final report Chapter-8, 9, and 10.	
Assess the project with respect to Environmental Sustainability, Climate Resilience, and Disaster Risk and find ways for reducing/mitigate negative impacts.	Done Impact in respect to Environmental Sustainability, Climate Resilience, and Disaster Risk has been assessed in Final report Chapter-12	
Prepare an Environmental Management Plan (EMP), which will include mitigation measures, enhancement measures, compensation measures and an environmental monitoring plan.	Done, a detailed Environmental Management Plan (EMP) has been presented in final Chapter-10.	

D. 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 1st year of operation at full capacity (or during, real production for newly completed project)
a)			
b)			

27. Cost/Benefit: Not Applicable (It is not an investment project, hence not applicable)

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

28. Please give reasons for shortfall, if any, between the estimated and actual benefit: **Not Applicable**

E. MONITORING AND AUDITING

29. Monitoring:

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

30. Auditing during and after Implementation:

30.1 Internal Audit:

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 findings/objections and Money involved=				

30.2 External Audit:

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 findings/objections and Money involved=				

F. POST-PROJECT REMARKS

31. General Observations/Remarks on the Project

31.1 Background

The coastal regions of Bangladesh, including offshore islands, are highly prone to various natural disasters such as tidal floods, cyclones, storm surges, coastal erosion, salinity intrusion, and drainage congestion. Hatiya Island, despite only being partially safeguarded by embankments against sea incursions, frequently faces cyclones and destructive ocean waves. The island is frequently hit by tropical cyclones, storm surges, and severe shoreline erosion due to sea level rise. The island faces cyclones with tidal surges ranging from two to four meters every year. According to estimates, the northern part of Hatiya Island has lost more than 12 km of its shoreline in the last five decades.

Therefore, it was necessary to conduct a comprehensive study to ensure holistic and integrated development and water resources management of Hatiya Island. BWDB formulated a proposal to carry out a comprehensive study for investigating the vulnerability of cyclones, storm surges, sea-level rise, severe erosion problems, newly created land connectivity, protection measures, embanking the newly developed area Environmental and Social Impact Assessment (ESIA) study for the rehabilitation of polders no. 73/1 (A+B) and 73/2 with riverbank protection of the Hatiya Island under Noakhali district.

31.2 Justification/Adequacy

Polder 73/1 (A+B) and polder 73/2 was built under Coastal Embankment Project in between 1963 to 1966 to protect the islanders' lives, property and public-private resources by preventing tidal surges, floods, saltwater intrusion. From the beginning it is working as a shield for natural disasters around Hatiya island. Due to a lack of necessary repair works for a long time, the polder was extensively damaged in different parts.

Hatiya is prone to multiple natural hazards such as tropical cyclones, storm surge, coastal erosion and sea level rise. Cyclones with two to four-meter-high tidal surges hit the island every year. Also, due to climate change and global warming, the height of the polder will not be enough to stop floodwater from entering the island. The drainage pattern is also changing on the island. Salt cultivation is getting hampered day by day. A proper drainage system will be very essential in future days. Navigation problem is increasing which is very alarming for the local people for their daily movement.
Under this circumstance, a comprehensive study is required on Hatiya to assess the vulnerability of the islands at present and future due to climate change impact and planning for improved water management system.

Linkage with Sustainable Development Goals (SDGs):

Goal 6. Target-6.5 of SDG: it is essential to protect and restore water related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes river by 2020, a River Management Plan is essential
Goal 13 of SDG: Take urgent action to combat climate change and its impacts.
Goal 14 of SDG: To conserve and sustainably use the oceans, seas and marine resources for sustainable development.

Linkage With Bangladesh Delta Plan (BDP), 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

The Project will contribute to the implementation of the Bangladesh Delta Plan 2100 from technical aspect. The concept of the project is in line with BDP2100. Particularly, the Project contributes to the following goals, strategies and sub-strategies:
BDP 2100 Higher Level Goals

Goal 1: Eliminate extreme poverty by 2030;
Goal 2: Achieve upper middle income status by 2030; and
Goal 3: Being a Prosperous Country beyond 2041.

BDP 2100 Specific Goals

Goal 1: Ensure safety from floods and climate change related disasters;
Goal 3: Ensure sustainable and integrated river systems and estuaries management;
Goal 4: Conserve and preserve wetlands and ecosystems and promote their wise use;
Goal 6: Achieve optimal and integrated use of land and water resources.

31.3 Objectives

The study has been completed successfully to attain the prime objective that to devise a plan for strengthening of coastal embankment, drainage improvement, erosion protection, prevention of saline water intrusion and tourism of polder no.-73/1 (A+B) and Polder – 73/2 at Hatiya and Nijhum Dwip The study recommended the best suited option for erosion, drainage condition and tidal action including cyclonic storm surge at present and in future considering climate change issues and sea level rise through sustainable and climate resilient interventions that is technically feasible, environmentally sustainable, socially acceptable, and financially viable and it also recommend three drainage improvement options have been devised to assess its effectiveness using mathematical mode.

31.4 Project revision with reasons
Not applicable

32. Rationale of the project with respect to Concept, Design, Location and Timing (Consider the following issues):

The coastal areas of Bangladesh are highly prone to floods, cyclones and storm surges, coastal erosion, salinity intrusion, drainage congestion etc. Located in the Bay of Bengal, Hatiya is the hotspot for tropical cyclones and has experienced several cyclones in the past decades. Often these cyclones were devastating and caused loss of lives as well as damage to substantial amount of properties Landscape of this island mostly exhibits low lying flat land and to some extent undulating topography. The ground level in Hatiya is 10 m above the mean sea level; therefore, the coastal community has been hampered by seasonal tidal inundation and subsequent salinity intrusions, especially in the dry season when the flow of river water diminishes. The residents are extremely vulnerable to sea level rise. Under this circumstance, a comprehensive study is required on Hatiya island to assess the erosion vulnerability of the islands at present and future due to climate change impact and planning for improved water management system.
A development project proposal (DPP) has been prepared in connection with Rehabilitation of of polder no-73/1(A+B) & 73/2 with Right Bank protection of Meghna River (Hatiya Chhanel) at Hatiya upazila under Noakhali district. The proposal has been sent to Ministry of Water Resource. A review meeting on the prepared DPP was held in Ministry of Water resource on 06-08-2020, presided by the Honorable Senior Secretary. A technical committee was formed as per the decision of the meeting. Then a DPP has been formulated based on the report of the technical committee. The feasibility of the project must be done before taking any investment project with an estimated cost of over TK. 50 crore.

Since the estimated cost of the project is about Tk. 2132.99 crore, it is necessary to verify the feasibility of the project.
In view of the above, BWDB decided to conduct a detailed feasibility study and an Environmental and Social Impact Assessment (ESIA) study for the rehabilitation of polders no. 73/1 (A+B) and 73/2 with riverbank protection of the Hatiya Island under Noakhali district.

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

33.1 Project Identification

Feasibility Study for Integrated Water Resource Management & Development of Polder no-73/1(A+B) & 73/2 under Hatiya upazila in Noakhali District has been developed with a broad intention to carry out a holistic and integrated study in devising a plan for strengthening the coastal embankment, drainage improvement, erosion protection, prevention of saline water intrusion and land reclamation of polder no: 73/1(A+B) & 73/2 considering technical, environmental, and social aspects. BWDB is considering riverbank protection measures, polder rehabilitation and dredging works in order to mitigate river erosion improve drainage problems and protect polders from monsoon, tidal and wave induced flooding and storm surges.
In this context, BWDB engaged Institute of Water Modeling (IWM) and Center for Environmental and Geographic Information Services (CEGIS) through a formal contract signed on 15 December 2022 to carry out a feasibility study in order to plan and design infrastructure for strengthening the coastal embankment, drainage improvement, erosion protection, prevention of saline water intrusion and land reclamation of polder no: 73/1(A+B) & 73/2

33.2 Project Preparation : BWDB prepared the PFS of the project and sent to MoWR for approval.
33.3 Appraisal : Review and DPEC meeting was held respectively on 16/03/22 and 29/05/22 at MoWR.
33.4 Credit Negotiation : Not applicable
33.5 Credit Agreement: Not applicable
33.6 Credit Effectiveness: Not applicable
33.7 Loan Disbursement: Not applicable
33.8 Loan Conditions: Not applicable
33.9 Project Approval : The administrative order (AO) of the project was issued on 18/07/2022.
33.10 Others(specify): Not applicable

34. Analysis of the post- implementation situation and result of the project (Consider following issues):

Not Applicable for this study project

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):

35.1 Project management: N/A

35.2 Project Director: N/A

35.3 Land Acquisition: N/A

35.4 Procurement: N/A

35.5 Consultancy: N/A

35.6 Contractor: N/A

35.7 Manpower: N/A

35.8 Law & Order: N/A

35.9 Natural calamity: N/A

35.10 Project financing: N/A

35.11 Allocation and release: N/A

35.12 Design formulation/approval: N/A

35.13 Project aid disbursement and re-imbursement: N/A

35.14 Mission of the development partners: N/A

35.15 Time & Cost Over-run: 1st time No-Cost time extension (60% time over-run) required as the study location (Hatiya) is an isolated island far from the mainland and situated in the estuary. Accessibility of Hatiya, one of the most disaster-prone islands in Bangladesh, has many layers of challenges. IWM was conducting survey operations in a challenging environment that consumed many times. It was necessary to extend the project duration considering the distance from the mainland & poor accessibility and smoothly meet all components of the ToR. Due to which additional time was required.

35.16 Project Monitoring: N/A

35.17 Delay in Decision: N/A

35.18 Transport, Training: N/A

35.19 Approval and Others: N/A

36. Remarks & Recommendations of the Project Director:

Feasibility Study for Integrated Water Resource Management & Development of Polder no- 73/1(A+B) & 73/2 under Hatiya upazila in Noakhali District was sanctioned administrative approval from MoWR on 18/07/2022. The project has been completed successfully on 30/06/2024. The main objective of the study is to carry out a holistic and integrated study in devising a plan for strengthening of coastal embankment, drainage improvement, erosion protection, prevention of saline water intrusion and land reclamation of polder no: 73/1(A+B) & 73/2 considering technical, environmental and social aspects. The study is to recommend the best suited option for flood management, drainage improvement, irrigation expansion, and navigability improvement, protect salinity intrusion, decrease sedimentation and associated problems and riverbank protection through sustainable, eco-friendly and climate resilient interventions, that is technically feasible, environmentally sustainable, socially acceptable, and financially viable.

The study has been framed to attain its objectives through two components: Technical Study (hydrological and hydraulic) as Component 1 and Environmental and Social Impact Study as Component 2. Based on the outputs of the mathematical modelling, project interventions have been proposed. Under ESIA Component of the project, detailed environmental and social impact assessment (ESIA) has been completed to analysis the impact of the proposed interventions on the environment and the society of the project area.

After assessing the field condition and model results, the study recommended a total of about 108 km embankment is suggested for re-sectioning and 17.01 km embankment is suggested for slope protection works considering the impact of storm surge and wave under climate change conditions. Embankment crest level is designed for different return periods. Considering field investigation, drainage model result under climate change condition and consultation with the design and field engineers, three drainage improvement options have been devised to assess its effectiveness using mathematical model. The study also recommended to implement Option-3 for drainage improvement as this option is socially acceptable, economically viable and technically feasible. It includes re-sectioning of embankment, re-excavation of 15 drainage khals (including Surjomukhi khal) and construction of five (5) drainage regulators.

The technical report i.e., the feasibility study report has been prepared according to specific format of Planning Commission. On the Environmental and Social Impact Assessment report has been prepared according to the Terms of Reference approved by the Department of Environment.

Finally, all the objectives and scopes have been accomplished under this study project. The design, cost estimate and ESIA have been conducted through the project. The feasibility study has shown that the project is technically feasible, environmentally friendly, socially acceptable, and economically viable. So, the DPP of the investment project would be finalized for implementation of the proposed physical components based on the findings of this study project.

Date 05/01/2025

Signature and seal of the Project Director
A.K.M. Saifuddin
Project Director
and
Superintending Engineer (Civil)
Office of the Chief Engineer (Civil), Planning
BWDB, Dhaka

37. Remarks/Comments of Agency Head:

The overall objective of this project is to conduct a holistic and integrated study for strengthening of coastal embankment, drainage improvement, erosion protection, prevention of saline water intrusion and land reclamation of polder no: 73/1(A+B) & 73/2The study suggested several interventions, including Riverbank protection work, re-sectioning the polder embankment as well as constructing slope protection structures, re-excavation of khals, constructing new regulators, repairing regulator, Harbor, and Afforestation. However, to get the maximum benefit and to ensure sustainability of the implementation project, suggestions and recommendations based on the feasibility study should be followed accordingly. BWDB will take necessary steps to prepare the DPP of the physical project as early as possible.

Date 22.02.25

Signature and seal of Agency Head
(Muhammad Amirul Haq Bhuiya)
ID No. 660118001
Director General
BWDB, Dhaka.

38. Remarks/Comments of the Secretary/Senior Secretary of the Ministry/Division:

The study has been completed successfully and in accordance with the study's recommendations, an investment project will be taken.

Date.....

Signature and seal of Secretary

উপ-পরিচালকের দপ্তর
কেন্দ্রীয় আঞ্চলিক হিসাব কেন্দ্র (কেরাক)
বাংলাদেশ পানি উন্নয়ন বোর্ড
পানি ভবন, লেভেল-৮, ব্লক-জি,
৭২, গ্রীন রোড, ঢাকা-১২০৫।
টেলিফোন ঃ০২-২২২২৩০১৪৪
ই-মেইলঃ dd.crac.bwdb@gmail.com

বাংলাদেশ পানি উন্নয়ন বোর্ড

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স্মারক নং-কেঃআঃহিঃকেন্দ্র/পাউবো/১০৩২

তারিখঃ ৩০/০৬/২০২৪ খ্রিঃ

বরাবর
পরিচালক
অর্থ পরিদপ্তর,
বাংলাদেশ পানি উন্নয়ন বোর্ড,
গ্রীণরোড, ঢাকা।

বিষয়ঃ ২০২৩-২০২৪ অর্থ বছরের উন্নয়ন প্রকল্প সমূহের অব্যয়িত জের অর্থ পরিদপ্তরে পরিচালিত প্রকল্পের ব্যাংক একাউন্টে ফেরত প্রসঙ্গে।

সূত্রঃ অর্থ পরিদপ্তরের স্মারক নং-পাউবো (অর্থ) উবাত/৮৬৫; তারিখঃ ১৩/০৬/২০২৪ খ্রিঃ।

প্রিয় মহোদয়,

সূত্রোক্ত স্মারকের নির্দেশনা মোতাবেক ২ নং কলামে উল্লেখিত শিরোনাম ও হিসাব নম্বরে ৩ নং কলামে উল্লেখিত অর্থ RTGS/BFTN এর মাধ্যমে আপনার দপ্তরে স্থানান্তর করা হইল।

ক্র. নং	হিসাবের যে শিরোনাম, হিসাব নম্বর ও ব্যাংক শাখার অনুকূলে অর্থ স্থানান্তর করা হইয়াছে	টাকার পরিমান	মন্তব্য
১	২	৩	৪
০১.	চাপাইনবাবগঞ্জ জেলাস্থ মহানন্দা নদী এবং চাপাইনববাগঞ্জ, রাজশাহী এবং নাটোর জেলাস্থ পদ্মা নদীর বেসিন ব্যবস্থাপনা সংক্রান্ত কাজের সম্ভাব্যতা সমীক্ষা-(প্রকল্প কোড-২২২০১৫০০০), এসএনডি-০১০০২৪২৮৯০৭৯০, জনতা ব্যাংক লিঃ, গ্রীনরোড কর্পোরেট শাখা, ঢাকা। রাউটিং নং-১৩৫২৬১৬৯৩	২০০,৬৬৬.৫০	প্রকল্প কোড ২২২০১৫০০০ এর অব্যয়িত জের।
০২.	পঞ্চগড় ও ঠাকুরগাঁও জেলায় টেকসই নদী ব্যবস্থাপনা সংক্রান্ত কাজের সম্ভাব্যতা সমীক্ষা-(প্রকল্প কোড-২২২০১৫৩০০), এসএনডি -১২১১০০৫৫৩৬৩৬০, ন্যাশনাল ব্যাংক লিঃ, প্রিন্সিপাল শাখা, কাজী নজরুল ইসলাম এভিনিউ, বাংলামোটর, ঢাকা। রাউটিং নং-১৫০২৭৫৩৫৬	২,০৬০.০০	প্রকল্প কোড ২২২০১৫৩০০ এর অব্যয়িত জের।
০৩.	কীর্তনখোলা-সুগন্ধা-বিশখালী নদী অববাহিকার পানি সম্পদ ব্যবস্থাপনার নিমিত্ত সম্ভাব্যতা সমীক্ষা-(প্রকল্প কোড-২২২০১৫৫০০), এসএনডি -০১২৩০০৩০০০০৬৫, সোনালী ব্যাংক লিঃ, সোনারগাঁও হোটেল শাখা, ঢাকা। রাউটিং নং-২০০২৬৪৩৯৬	৬৯,৩২৯.০০	প্রকল্প কোড ২২২০১৫৫০০ এর অব্যয়িত জের।
০৪.	ঢাকা জেলার গোরানচাটবাড়ি রিটেনশন পন্ডের সমন্বিত উন্নয়ন প্রকল্পের সম্ভাবতা সমীক্ষা-(প্রকল্প কোড-২২২০১৫৯০০), এসএনডি -০১০০২৪৩২৫৪৫৩৬, জনতা ব্যাংক লিঃ, গ্রীনরোড কর্পোরেট শাখা, ঢাকা রাউটিং নং-১৩৫২৬১৬৯৩	১৮৮,৩৩৪.০০	প্রকল্প কোড ২২২০১৫৯০০ এর অব্যয়িত জের
০৫.	বর্ণি বাওর এলাকার পানি, পরিবেশ, প্রতিবেশ ও জববৈচিত্র্যের সমন্বিত এবং টেকসই উন্নয়নের রক্ষ্যে বিস্তারিত সমীক্ষা প্রস্তাব-(প্রকল্প কোড-২২২০১৬১০০), এসএনডি -০১০০২৪৬৩৩৯৮১৮ জনতা ব্যাংক লিঃ, গ্রীনরোড কর্পোরেট শাখা, ঢাকা। রাউটিং নং-১৩৫২৬১৬৯৩	৫৪৪,৬২৭.০০	প্রকল্প কোড ২২২০১৬১০০ এর অব্যয়িত জের
০৬.	দুর্যোগ ঝুঁকি ব্যবস্থাপনা সম্প্রসারণ (কম্পোনেন্ট-১ বাপাউবো অংশ)-(প্রকল্প কোড- ২২৪৩৪৯৭০০), এসএনডি -৪১০১-০৩২০০০০৯৫৯, বাংলাদেশ কৃষি ব্যাংক লিঃ, কাওরান বাজার কর্পোরেট শাখা, ঢাকা। রাউটিং নং-০৩৫২৬২৫৩৪	২২৭,০৬৩.০০	প্রকল্প কোড ২২৪৩৪৯৭০০ এর অব্যয়িত জের।

ক্রমিক নম্বর	প্রকল্পের নাম ও কোড নম্বর	জমাকৃত জিওবি অংশের অব্যয়িত টাকার পরিমান	ট্রেজারী চালান নম্বর ও তারিখ	মন্তব্য
১	২	৩	৪	৫
৯৬।	চট্টগ্রাম জেলার আওতাধীন সন্দ্বীপ উপজেলাস্থ পোল্ডার নং- ৭২ এর সমন্বিত পানি সম্পদ ব্যবস্থাপনা ও উন্নয়ন এর নিমিত্ত সম্ভাব্যতা সমীক্ষা (প্রকল্প কোড নং - ২২৪৩৫২৭০০)	৮৭১,৯৫০.০০	২৩২৪-০০০৪৪৬১১০৩১, তারিখ: ১০/০৮/২০২৩ খ্রিঃ।	
৯৭।	চট্টগ্রাম জেলার সীতাকুন্ড উপজেলার কুমিরা ছড়া এবং মীরসরাই উপজেলার খেয়া ও গোভানিয়া ছড়ায় বৃষ্টির পানি সংরক্ষণ ও ব্যবহারে পরিবেশবান্ধব জলধারা নির্মাণের সম্ভাব্যতা (প্রকল্প কোড নং - ২২৪৩৪৯১০০)	১,৪০৫,৯২০.০০	২৩২৪-০০০৪৪৯৭২৯১১, তারিখ: ১০/০৮/২০২৩ খ্রিঃ।	
৯৮।	কুতুবদিয়া এবং মাতারবাড়ি দ্বীপের সমন্বিত পানি সম্পদ ব্যবস্থাপনা ও উন্নয়ন এর নিমিত্ত সম্ভাব্যতা সমীক্ষা (প্রকল্প কোড নং - ২২৪৩৫০৩০০)	৯৮৮,৯১৮.০০	২৩২৪-০০০৪৪৬৪৪৬২১, তারিখ: ১০/০৮/২০২৩ খ্রিঃ।	
৯৯।	যমুনা নদী সিস্টেমের বামতীরে সমন্বিত পানি সম্পদ ব্যবস্থাপনার নিমিত্ত সম্ভাব্যতা সমীক্ষা (ফেজ-১) (প্রকল্প কোড নং - ২২৪৩৫৭১০০)	২৬,৪৩১.০০	এন০১২৩০০০০১ , তারিখ: ১০/০৮/২০২৩ খ্রিঃ।	
১০০।	জিওসেল এর কার্যকারিতা ও উপযুক্ততা নির্ধারণের লক্ষ্যে সুনামগঞ্জ জেলার শনির হাওরের লালুর গোয়ালা ১.০০ কিঃমিঃ ও শুরমার হাওরের বর্ধিতাংশের ভাঙ্গন কবলিত ১ কিঃমিঃ ডুবন্ত বাঁধের প্রতিরক্ষা কাজের সম্ভাব্যতা সমীক্ষা (প্রকল্প কোড নং - ২২৪৩৫৮০০০)	০.০০	জিওবি তহবিল অবমুক্ত হয় নি ।	
১০১।	বাংলাদেশের নদ-নদীসমূহের তথ্যাদি হালনাগাদকরণ ও তথ্যপ্রযুক্তি ভিত্তিক ব্যবস্থাপনা (প্রকল্প কোড নং - ২২৪৩৫৫৯০০)	২২২,৬৬০.০০	টি-৩৯ , তারিখ: ০৮/০৮/২০২৩ খ্রিঃ।	
১০২।	সুনামগঞ্জের হাওর এলাকার সমন্বিত পানি সম্পদ ব্যবস্থাপনার নিমিত্ত সম্ভাব্যতা সমীক্ষা (প্রকল্প কোড নং - ২২৪৩৫৭৪০০)	১,০২৭,০১৩.০০	২৩২৪-০০০৪৪৮৮৯৫১১, তারিখ: ১০/০৮/২০২৩ খ্রিঃ।	
১০৩।	সিলেট জেলার সুরমা-কুশিয়ারা নদীর অববাহিকায় সমন্বিত পানি সম্পদ ব্যবস্থাপনা ও উন্নয়ন এর নিমিত্ত সম্ভাব্যতা সমীক্ষা (প্রকল্প কোড নং - ২২৪৩৫৭৩০০)	৩০২,৯৭৯.০০	২৩২৪-০০০৪৪৫৯১৭০১, তারিখ: ১০/০৮/২০২৩ খ্রিঃ।	
১০৪।	নাফ নদীর মোহনার উন্নয়ন ও ব্যবস্থাপনা এবং শাহ পরীর দ্বীপের ভূমি উন্নয়ন এর নিমিত্ত সম্ভাব্যতা সমীক্ষা (প্রকল্প কোড নং - ২২৪৩৫৮১০০)	৮৬৫,৮৯৩.০০	টি-২৯ , তারিখ: ১৩/০৮/২০২৩ খ্রিঃ।	
১০৫।	নোয়াখালী জেলার আওতাধীন হাতিয়া উপজেলাস্থ পোর্ডার নং- ৭৩/১ (এ+বি) এবং ৭৩/২ এর সমন্বিত পানি সম্পদ ব্যবস্থাপনা ও উন্নয়নের নিমিত্ত সম্ভাব্যতা সমীক্ষা (প্রকল্প কোড নং - ২২৪৩৬১২০০)	২৪০,৩৩৬.০০	২৩২৪-০০০৪৩৬৪২৪৯১, তারিখ: ০৯/০৮/২০২৩ খ্রিঃ।	
১০৬।	কীর্তনখোলা-সুগন্ধা-বিষখালী নদী অববাহিকার পানি সম্পদ ব্যবস্থাপনার নিমিত্ত সম্ভাব্যতা সমীক্ষা (প্রকল্প কোড নং - ২২২০১৫৫০০)	১৭৩,১১৬.০০	এন০১২৩০০০০২ , তারিখ: ১০/০৮/২০২৩ খ্রিঃ।	
১০৭।	ব্রাহ্মণবাড়িয়া জেলার অন্তর্গত বিভিন্ন উপজেলার সমন্বিত পানি সম্পদ ব্যবস্থাপনার নিমিত্ত সম্ভাব্যতা সমীক্ষা (প্রকল্প কোড নং - ২২২০১৫৪০০)	১,৬১৪,৩৪৪.০০	এন০১২৩০০০০৩ , তারিখ: ১০/০৮/২০২৩ খ্রিঃ।	
১০৮।	ঢাকা জেলার গোড়ানচাটবাড়ি রিটেনশন পন্ডের সমন্বিত উন্নয়ন প্রকল্পের সম্ভাব্যতা সমীক্ষা (প্রকল্প কোড নং - ২২২০১৫৯০০)	০.০০	জিওবি তহবিল অবমুক্ত হয় নি ।	
১০৯।	পূর্ব গোপালগঞ্জ সমন্বিত পানি সম্পদ ব্যবস্থাপনা প্রকল্পের বিস্তারিত সমীক্ষা (প্রকল্প কোড নং - ২২৪৩৫৬৭০০)	১,৫২৯,৭২৬.০০	২৩২৪-০০০৪৪৯৩২৬৬১, তারিখ: ১০/০৮/২০২৩ খ্রিঃ।	
১১০।	Detailed Study for Riverbank Erosion and Sustainable Mitigation Strategies for the Medium Rivers in Bangladesh (প্রকল্প কোড নং - ২২৪৩৫৭৭০০)	৫০৩,৮০১.০০	২৩২৪-০০০৪৪৮১৪১১১, তারিখ: ১০/০৮/২০২৩ খ্রিঃ।	
১১১।	খুলনা জেলায় দাকোপ উপজেলায় অবস্থিত পোল্ডার -৩১ এর পানি ব্যবস্থপনা পদ্ধতির পুনরুদ্ধার ও উন্নয়নের বিস্তারিত সম্ভাব্যতা হতে (প্রকল্প কোড নং - ২২৪৩৬২৪০০)	৩৩৮,৫৭৫.০০	২৩২৪-০০০৪২০৪৬২১১, তারিখ: ০৮/০৮/২০২৩ খ্রিঃ।	
১১২।	যমুনা নদীর চর স্থিতিশীল ও জীবিকায়ন প্রকল্পের বিস্তারিত সম্ভাব্যতা সমীক্ষা (পাইলট স্টাডি: কাউয়াখোলা চর) (প্রকল্প কোড নং - ২২৪৩৬২৩০০)	৫৪২,৭৫১.০০	২৩২৪-০০০৪৪৭৫২১৪১, তারিখ: ১০/০৮/২০২৩ খ্রিঃ।	
১১৩।	মানিকগঞ্জ জেলায় যমুনা নদীর বাম তীর ভাঙ্গন রক্ষার্থে বঙ্গবন্ধু সেতু (যমুনা) এর ভাটিতে মরফোলজিক্যাল প্রক্রিয়া অনুসন্ধানসহ পরিবেশ ও সামাজিক প্রভাব নিরূপণ সংক্রান্ত সমীক্ষা (প্রকল্প কোড নং - ২২৪৩৪৬৮০০)	৯৩৪,১৪২.০০	২৩২৪-০০০৪২০৭১২১১, তারিখ: ০৮/০৮/২০২৩ খ্রিঃ।	