

# BANGLADESH WATER DEVELOPMENT BOARD



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

Name of the Project : Re-excavation of Bhuboneshwar river and protection of structures/properties from the erosion of Pona River & Bhuboneshwar river in Bhandaria Upozila of Perojpur district (1<sup>st</sup> Revised).

**PROJECT PERIOD: JULY 2018 TO JUNE 2022**

DIVISION : Perojpur O&M Division, BWDB, Perojpur

CIRCLE : Barishal O&M Circle, BWDB, Barishal

ZONE : Southern Zone, BWDB, Barishal

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

**PROJECT COMPLETION REPORT: IMED 04/2003 (REVISED)**

**A. PROJECT DESCRIPTION:**

**01. Name of Project** : Re-excavation of Bhuboneshwar river and protection of structures/properties from the erosion of Pona River & Bhuboneshwar river in Bhandaria Upozila of Perojpur District (1<sup>st</sup> Revised).

**02. Administrative Ministry/ Division** : Ministry of Water Resources (MoWR)

**03. Executing Agency** : Bangladesh Water Development Board (BWDB)

**04. Location of the Project** : Upazila: Bhandaria, District: Perojpur.

**05. Objectives of the Project** :

The main objectives of the project are-

- Protection of both banks of Bhuboneshwar River under Bhandaria Upazila from erosion of the Bhuboneshwar & Pona Rivers including re-excavation of Bhuboneshwar River in Perojpur District.
- To provide safety for human lives, properties and improve economic activities by construction of protective works at the vulnerable locations along Bhuboneshwar River.
- To provide irrigation and navigation facilities by re-excavation of Bhuboneshwar River.
- This project will save approximately Tk. 28,812.00 lakh valued properties by implementation of 3000.00m river bank protection work.

**06. Estimated Cost:**

(In Lakh Taka)

	Original	Latest Revised (1 <sup>st</sup> )
a) Total	3358.80	3398.56
b) Taka	3358.80	3398.56
c) Foreign Currency	-	-
d) Project Aid	-	-
e) RPA	-	-

**07. Date of Approval:**

	PCP	PP
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a) Original : - 06.08.2018  
b) No cost time extension : - 22.06.2020  
c) Latest Revised (1<sup>st</sup>) : - 28.06.2021

**08. Implementation period :**

	Date of Commencement	Date of Completion
a) Original	July, 2018	June, 2020
b) No cost time extension	July, 2018	June, 2021
c) Latest Revised (1 <sup>st</sup> )	July, 2018	June, 2022

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d) Actual	July, 2018	June, 2022
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**09. Financial Agreement (source wise):**

**9.1 Status of Loan / Grant:**

**a) Foreign Financing:**

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

..... N. A.

**b) GOB:**

(In Lakh Taka)

Total Amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
3398.56	-	3398.56	-

**9.2 Utilization of Project Aid: (Source wise)**

(In Million)

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

..... N/A.

**9.3 Reimbursable Project Aid (RPA)**

(In Lakh Taka)

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

..... N/A. ....

**B. IMPLEMENTATION POSITION**

**01. Implementation Period:**

Implementation Period as per DPP		Actual Implementation Period	Time Over Run (% of Original Implementation Period)	Remarks
Original	Latest Revised			
1	2	3	4	5
July/2018 to June/2020	July/2018 to June/2022	July/2018 to June/2022	100%	The original time period for the project was July,2018 to June,2020. But due to various reasons the project could not completed in due time. Due to Covid-19 pandemic and all out lockdown through the whole country from March/2020 to October,2020 in first phase and April,2021 to September,2021 in 2 <sup>nd</sup> phase, the project was forcefully stopped. Besides, unavailability of manufacturing yard for CC block and prolonged rainy seasons the project work was hampered and delayed the completion of the project.

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02. Cost of the Project:

(In Lakh Taka)

Description	Estimated Cost		Actual Expenditure	Cost Over-run (% of original cost)	Remarks
	Original	Latest Revised			
1	2	3	4	5	6
Total	3358.80	3398.56	3164.29	(-5.79%)	Didn't over run.
Taka	3358.80	3398.56	3164.29		
PA	-	-	-		

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

Sanctioned strength as per PP	Manpower employed during execution	Status of the existing Manpower			Manpower Employed	
		Manpower requirement for O&M as per PP	existing Manpower for O&M	Others	Male	Female
1	2	3	4	5	6	7
Officer (s)	Existing manpower of the implementing agency were deployed during execution of the project.					
Staff (s)						
Total						

Nil

04. Training of project Personnel (Foreign/Local): There was no provision of any sort of training under this project.

Field of Training /Study tour/work shop/ Seminar etc.	Provision as per PP		Actual		Remarks.
	Number of Person	Man- months	Number of Person	Man months	
1	2	3	4	5	6

a) Foreign ..... Nil

b) Local ..... Nil

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

(In Lakh Taka)

Items of work (as per PP)	Unit	Target (as per RDPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
<b>Revenue Component</b>						
Domestic travel expenses	L.S.	2.00	1 item	1.99	1 item	
4823 Petrol and Lubricant	L.S.	3.00	1 item	2.40	1 item	
4827 Printing and publication	L.S.	1.00	1 item	1.00	1 item	
4828 Office Stationery, Seal & Stamps	L.S.	1.00	1 item	1.00	1 item	
Labor wages to non-employees	L.S.	2.00	1 item	1.34	1 item	
4883 Honorarium/ Fee/	L.S.	3.00	1 item	2.29	1 item	

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Items of work (as per PP)	Unit	Target (as per RDPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
<b>Remuneration</b>						
4886 Survey & Investigation	L.S.	4.00	1 item	4.00	1 item	
Motor vehicle (Maintenance)	L.S.	2.00	1 item	2.00		
<b>Sub-Total : A Revenue Component</b>		<b>18.00</b>		<b>16.02</b>		
<b>Capital Component</b>						
Engineering and other equipment (Level Machine)01(One) No	Nos	1.00	1	1.00	1	
Computers and accessories (Computer 2 No with scanner & Printer)	Nos	1.60	1	1.60	1	
Office equipment (Photocopier, 01(One) No)	Nos	1.50	1	1.49	1	
Forestation (Tree Plantation) 1 Item	L.S	5.00	1 item	4.98	1 item	
River Bank Protection Work. Total Length=3.00 Km	Km	2610.12	3.00	2508.75	3.00	
Re-excavation of Bhuboneshwar River 13.30 km	Km/cum	757.34	13.30 km/ 670658.40 cum	630.45	13.30 km/ 542873.93 cum	
<b>Sub-Total: B Capital Component</b>		<b>3376.56</b>		<b>3148.27</b>		
<b>Sub-Total: C Physical Contingency</b>		<b>2.00</b>				
<b>Sub-Total: D Price Contingency</b>		<b>2.00</b>				
<b>Grand Total (A+B+C+D):</b>		<b>3398.56</b>	<b>100.00%</b>	<b>3164.29</b>	<b>93.11%</b>	

06. Information Regarding Project Director(s):

Name & Designation with pay scale.	Full time	Part time	Responsible for more than one Project	Date of		Remarks.
				Joining	Transfer	
1	2	3	4	5	6	7
Sayed Ahammad Executive Engineer Perojpur O&M Division, BWDB, Perojpur. Scale: 43000-69850 (Grade-5)	Yes	-	No	30.08.2018	28.10.2019	
Uzzal Kumar Sen Executive Engineer Perojpur O&M Division, BWDB, Perojpur. Scale: 43000-69850 (Grade-5)	-	Yes	Yes	29.10.2019	30.11.2019	
Dipak Ranjan Das Executive Engineer Perojpur.O&M Division, BWDB, Perojpur. Scale: 43000-69850 (Grade-5)	-	Yes	Yes	01.12.2019	11.11.2020	
Mahbube Moula Md. Mehedy Hasan Executive Engineer Perojpur O&M Division, BWDB, Perojpur. Scale: 43000-69850 (Grade-5)	-	Yes	No	12.11.2020	06.12.2021	

Name & Designation with pay scale.	Full time	Part time	Responsible for more than one Project	Date of		Remarks.
				Joining	Transfer	
1	2	3	4	5	6	7
Mahbube Moula Md. Mehedy Hasan Executive Engineer Perojpur O&M Division, BWDB, Perojpur. Scale: 43000-69850 (Grade-5)	Yes	-	No	07.12.2021	Till date	

07. Procurement of Transport (in nos.): There was no provision for vehicles procurement in this project.

Type of Transport	Number as per DPP	Procured with date	Transferred to Transport Pool with date	Transferred to O&M with date	Condemned/damaged with date	Remarks.
1	2	3	4	5	6	7

N/A

08. Procurement of Goods, Works and Consultancy Service.

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

Description of procurement (goods/works/ consultancy as per bid document)	Tender/Bid/Proposal Cost (in lac Taka)		Tender/Bid/ Proposal		Date of completion of works/ services/supply of goods	
	As per RDPP	Contracted value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Permanent protection works Left Bank of Bhuboneshwar River from Ch. 0 m to Ch. 365 m = 365 m in connection with Re-excavation of Bhuboneshwar river and protection of structures/properties from the erosion of Pona River & Bhuboneshwar river in Bhandaria Upozila of Perojpur district.	320.84	320.73	22.11.18	17.01.19	20.06.22	20.06.2022
Permanent protection works Left Bank of Bhuboneshwar River from Ch. 365.00 m to Ch. 725 m = 360 m in connection with RE-excavation of Bhuboneshwar river and protection of structures/properties from the erosion of Pona River & Bhuboneshwar river in Bhandaria Upozila of Perojpur district.	316.06	315.99	22.11.18	17.01.19	20.06.22	20.06.2022
Permanent protection works Left Bank of Bhuboneshwar River from Ch. 725.00 m to Ch. 1110 m = 385 m in connection with RE-excavation of Bhuboneshwar river and protection of structures/properties from the erosion of Pona River & Bhuboneshwar river in Bhandaria Upozila of Perojpur district.	305.62	305.40	22.11.18	17.01.19	20.06.22	20.06.2022
Permanent protection works Left Bank of Bhuboneshwar River from Ch. 1110 m to Ch. 1225 m Ch. 1237 m to Ch. 1322 m &	329.37	329.12	22.11.18	17.01.19	20.06.22	20.06.2022

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Description of procurement (goods/works/ consultancy as per bid document)	Tender/Bid/Proposal Cost (in lac Taka)		Tender/Bid/ Proposal		Date of completion of works/ services/supply of goods	
	As per RDPP	Contracted value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Ch. 1332 m to Ch. 1520 m = 388m in connection with Re-excavation of Bhuboneshwar river and protection of structures/properties from the erosion of Pona River & Bhuboneshwar river in Bhandaria Upozila of Perojpur district.						
Permanent protection works Right Bank of Bhuboneshwar River from Ch. 0.00 to Ch. 365.0 m 365 m in connection with Re-excavation of Bhuboneshwar river and protection of structures/properties from the erosion of Pona River & Bhuboneshwar river in Bhandaria Upozila of Perojpur district.	354.88	353.10	21.11.19	27.01.20	31.03.22	31.03.2022
Permanent protection works Right Bank of Bhuboneshwar River from Ch. 365.00 to Ch. 725 m =360 m in connection with Re-excavation of Bhuboneshwar river and protection of structures/properties from the erosion of Pona River & Bhuboneshwar river in Bhandaria Upozila of Perojpur district.	348.32	346.58	21.11.19	27.01.20	31.03.22	31.03.2022
Permanent protection works Right Bank of Bhuboneshwar River from Ch. 733 to Ch. 885 m & Ch. 895 to Ch. 1133 = 390 m in connection with Re-excavation of Bhuboneshwar river and protection of structures/properties from the erosion of Pona River & Bhuboneshwar river in Bhandaria Upozila of Perojpur district.	318.70	318.18	22.11.18	17.01.19	20.06.22	20.06.2022
Permanent protection work (Right Bank of Bhuboneshwar River from Ch. 1133 to Ch. 1520 = 387 m in connection with Re-excavation of Bhuboneshwar river and protection of structures/properties from the erosion of Pona River & Bhuboneshwar river in Bhandaria Upozila of Perojpur district.	321.20	321.00	22.11.18	17.01.19	20.06.22	20.06.2022

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

Name of the field	Approved man month		Actual man month utilized	Remarks
	As per PP	As per contract.		
a) Local	Not applicable			
b) Foreign	Not applicable			

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09. Construction / Erection / Installation Tools & Equipment:

Description of items	Quantity (As per DPP)	Quantity procured with date	Transferred to O&M with date	Disposed of as per rule with date	Balance	Remarks
1	2	3	4	5	6	7
Levelling Machine	1 set	1 set Date: 18.09.2019	Yes Date: 30.06.2022	-	1 set	-
Computer with laser printer and scanner.	1 set	1 set Date: 18.09.2019	Yes Date: 30.06.2022	-	1 set	-

**B. FINANCIAL AND PHYSICAL PROGRAMME:**

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

(In Lakh Taka)

Financial year	Financial Provision & Physical target as per original DPP				Financial Provision & Physical target as per latest revised DPP			
	Total	Taka	PA	Physical %	Total	Taka	PA.	Physical %
1	2	3	4	5	6	7	8	9
2018-19	1554.10	1554.10	-	46.27%	55.76	55.76	-	1.64%
2019-20	1804.70	1804.70	-	53.73%	1063.29	1063.29	-	31.29%
2020-21	-	-	-	-	2279.51	2279.51	-	67.07%
2021-22	-	-	-	-	-	-	-	-
<b>Total</b>	<b>3358.80</b>	<b>3358.80</b>	<b>-</b>	<b>100%</b>	<b>3398.56</b>	<b>3398.56</b>	<b>-</b>	<b>100%</b>

11. (b) Revised ADP allocation and progress:

(In Lakh Taka)

Financial year	Revised Allocation & Target				Taka release	Expenditure & physical progress.			
	Total	Taka (in lac)	P.A.	Physical %		Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9	10
2018-19	100.00	100.00	-	1.64%	100.00	55.76	55.76	-	1.64%
2019-20	1200.00	1200.00	-	31.29%	1200.00	1063.18	1063.18	-	31.28%
2020-21	2280.00	2280.00	-	42.76%	1710.00	1289.94	1289.94	-	37.96%
2021-22	820.00	820.00	-	24.31%	820.00	755.41	755.41	-	22.23%
<b>Total</b>	<b>4400.00</b>	<b>4400.00</b>	<b>-</b>	<b>100.00%</b>	<b>3830.00</b>	<b>3164.29</b>	<b>3164.29</b>	<b>-</b>	<b>93.11%</b>

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**D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:**

Objective as per DPP	Actual achievement	Reasons for shortfall, if any
Protection of both banks of Bhuboneshwar River under Bhandaria Upazila from erosion of the Bhuboneshwar & Pona Rivers including re-excavation of Bhuboneshwar River in Perojpur District.	3.00 km protective works on both banks of Bhuboneshwar river from the junction of Pona River & Bhuboneshwar River to Majida Begum Mahila College have been implemented. Both banks are now protected from the risk of river bank erosion.	No Shortfall.
To provide safety for human lives, properties and improve economic activities by construction of protective works at the vulnerable locations along Bhuboneshwar River. To provide irrigation and navigation facilities by re-excavation of Bhuboneshwar River.	The implemented 3 km protective works have safeguarded properties & human lives in the project area. Re-excavation of 13.30 km Bhuboneshwar River has increased water carrying capacity of the river. It has enhanced navigability & surface water irrigation scope.	
This project will save approximately Tk. 28,812.00 lakh valued properties by implementation of 3000.00 m river bank protection work.	Properties worth financial value of Tk 28812 lakh have been safeguarded from river bank erosion through implementation of the project.	

**E. BENEFIT ANALYSIS:**

**01. Annual Out-put:**

Items of out-put	Unit	Estimated quantity expected at full capacity	Actual quantity of out-puts during the 1 <sup>st</sup> year of operation at full capacity (or during real production for newly completed project)
1	2	3	4
<b>Ensured Safeguard from river bank erosion of the following items/establishments:</b>			
Cultivate land of the local people	ha	300.00	300.00
Building/Homestead	nos.	350	340
Kacha/semi pucca/Pucca shops	nos	400	400
Metalled Road	km	10.00	10.00
Village Road	km	4.00	4.00
Market	nos.	2	2
Poultry	nos.	7	7
Mobile Tower	nos.	4	4
Madrasha	nos.	4	4
Mozida Begum Women college	nos.	1	1
Primary School	nos.	4	4
Union Parished Complex	nos.	1	1
Mosque	nos.	4	4
Fisheries	nos.	8	8
Mondir	nos	4	4
Culvert	nos.	2	2

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02. Cost / Benefit:

Item	Estimated	Actual
(1) Benefit cost of the project		It will be evaluated later by concerned directorate of BWDB & IMED.
(i) Financial	2.27:1.00	
(ii) Economic	2.62:1.00	
(2) Internal rate of return		
(i) Financial	32.12%	
(ii) Economic	37.31%	

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

**F. MONITORING AND AUDITING.**

01. Monitoring:

Name & Designation of the inspecting official	Date of inspection	Identified Problems	Recommendations
1	2	3	4
<b>Ministry/Agency:</b>			
Md. Azadur Rahaman mallick Joint Secretary (Admin), MoWR	18/12/2020 to 19/12/2020	No major problems identified	Instructed to follow approved designs for construction works & to complete within the stipulated time.
Md. Azadur Rahaman mallick Joint Secretary (Admin), MoWR	18/03/2021	No major problems identified	Ensure the quality and quantity of work. Dredged earth must be managed in planned way to reclaim land.
Md. Azadur Rahaman mallick Joint Secretary (Admin), MoWR	30/05/2021	No major problems identified	Project must be completed within stipulated time.
Md. Azadur Rahaman mallick Joint Secretary (Admin), MoWR	04/12/2021	No major problems identified	Instructed to Project must be completed within stipulated time to involve extra manpower.
Md. Azadur Rahaman mallick Joint Secretary (Admin), MoWR	27/03/2022	No major problems identified	Project Progress was satisfactory
Md. Azadur Rahaman mallick Joint Secretary (Admin), MoWR	28/06/2022	No major problems identified	Project Progress was satisfactory.

02. Auditing during and after Implementation:

2.1. Internal Audit: Not Conducted.

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

2.2. External Audit:

Audit Period	Date of submission of Audit Report.	Major findings/objections	Whether objection resolved or not.
1	2	3	4
2018-2019	Not conducted yet		
2019-2020	Not conducted yet		
2020-2021	Not conducted yet		
2021-2022	Not conducted yet		

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## G. DESCRIPTIVE REPORT

General Observations/Remarks of the Project on:

### 1.1 Background

The Project area is located at Bhandaria Pouroshova under Bhandaria Upazilla in Pirojpur district. The project is surrounded by Pona River on the West, Barishal-Bhandaria road on the north, Majda Begum Mohila Collage and other infrastructures on the east and crowded household of Pouroshova on the South Side.

The Bhuboneswar River is produced from the Pona River, a branch of Kocha River. Bhuboneswar river has fallen to Bishkhali River at Kathalia under Jhalkathi District. The 15.50 km Bhuboneswar river has connected Pona River on one side and Bishkhali river on other side. Bhuboneswar river works as an important water way on the Project area. At the time of high tide on the Kocha River, a huge water flow enters into Bhuboneswar river through Pona River. Due to huge water flow and wave action on the beginning of Bhuboneswar river, various government and private infrastructures, stalls & business centre, education institutes, Mosjid-Madrashas and specially Mojida Begum Mohila collage are in great danger of river bank erosion of Bhuboneswar river on the sides.

In this situation, protective work on both sides of Bhuboneswar river for the length of first 1.50 km and re-excavation of river for a length of 13.30 km were taken. A DPP was prepared on the recommendation of Honorable Minister, MOWR and Honorable Minister, Environmental & Forest. Finally, the DPP was passed by the competent authority amounting to Tk.3358.80 Lac with the original implementation period July, 2018 to June, 2020.

### 1.2 Justification/Adequacy:

A huge tidal water flows from Kocha River to Pona River and Pona to comparatively narrow Bhuboneswar River in the monsoon. On the other hand, large number of water vessels move through this navigation channel. High tide wave and vessel wave hit the river bank on both sides and erodes the river bank. Every year more and more land has been engulfed by the river due to continued bank erosion. During monsoon, joint actions like the upland pressure, tidal current, cyclone, wave action, etc. cause such massive erosion, endangers fertile agricultural lands, social overhead properties like schools, colleges, Govt. and private structures, communication infrastructures, shop, market, mosque etc. of the locality. Majida Begum Mohila College is one of them. The overall objective of the project is to reduce environmental degradations and human hazards due to river erosion with ensuring safety of lives and properties around the area. Long time, the Bhubanswar river has not been excavated. The river was silted up by river silt and domestic garbage. Flow of river were obstructed due to upraising of char. Peoples deprive from irrigation facilities and navigation. The proposed bank protective works and dredging work ensures the safety of structure, Pacca road, the agricultural lands and other immovable properties total worth of Tk 28812.00 lakh has been ensured against river bank erosion. It meets up the people's irrigation and navigation facilities. Hence rationality of the project granted is justified.

### 1.3 Objectives:

- Protection of both banks of Bhuboneswar River under Bhandaria Upazila from erosion of the Bhuboneswar & Pona Rivers including re-excavation of Bhuboneswar River in Pirojpur District.
- To provide safety for human lives, properties and improve economic activities by construction of protective works at the vulnerable locations along Bhuboneswar River.
- To provide irrigation and navigation facilities by re-excavation of Bhuboneswar River.
- This project will save approximately Tk. 28,812.00 lakh valued properties by implementation of 3000.00m river bank protection work.

#### 1.4. Project revision with reasons:

The project titled "Re-excavation of Bhuboneshwar river and protection of structures/properties from the erosion of Pona River & Bhuboneshwar river in Bhandaria Upozila of Perojpur District" has been approved on 19-07-2018. The estimated cost of the original approved DPP was Tk. 3358.80 lakh. During the implementation of the project, cost for river bank protection work increased Tk. 182.75 lac due to increase in BWDB rate schedule and tenderer's BOQ rate. On the other hand, cost for re-excavation works decreased Tk. 144.99 lac due to tenderer's quoted rate which is less than the estimated cost. So total project cost increased to tk. 3398.56 lac, which is only 1.18% above the original DPP cost.

Therefore, a Revised DPP was submitted on January, 2020 as per decision of project Steering Committee Meeting held on 30.12.2019 and was approved by the competent authority on 28.06.2021.

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

Bank protective work's design includes dumping material at eroded bank with CC Block of width 5.00 meter from bank at both bank of river. The theme of the design allows two-layer CC block dumped in eroded area there will be a defined protected river bank slope. It should be noted that river has started showing stable nature as expected during implementation period. No abnormal collapse of the bank has been found which would be the major unexpected drawback. It can be said that the design concept is very much responsive to the hydro-morphological condition of the project area. Bank slope protection was done by pitching CC Blocks on the river side slope which is performing well like previously implemented projects. On the other hand, dredging has been performed as per expected demands.

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

##### ◆ Project Identification:

The Project was initially identified by local politicians, local elites, public representatives, honorable local member of parliament, local administrative etc. Those Stakeholders earnestly requested the Honorable Member of Parliament to address the problem generating from the erosion of Bhuboneshwar River. Accordingly, then Honorable Minister, Ministry of Environment and Forest sent DO letter to Honorable Minister, Ministry of Water Resources to take up the project.

##### ◆ Project Preparation:

The project was formulated as per the report submitted by the technical committee formed by BWDB on February, 2017.

##### ◆ Appraisal:

PEC meeting of the project was held on 15 March 2018 at Planning Commission.

##### ◆ Credit Negotiation: Not Applicable.

##### ◆ Credit Agreement: Not Applicable.

##### ◆ Credit Effectiveness: Not Applicable.

##### ◆ Loan Disbursement: Not Applicable.

##### ◆ Loan Conditionality: Not Applicable.

##### ◆ Project Approval:

The project was approved on 06-08-2018 by Honorable Minister, Ministry of Planning.

##### ◆ Others (if any): Nil.

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4. Analysis of the Post-Implementation situation and result of the project:
- 4.1 Whether the beneficiaries of the project have clear knowledge about the Target/ Objectives of the project: Yes.
- 4.2 Programme for use of created-facilities of the project:  
The stakeholders are directly taking advantages of the created facilities of the project.
- 4.3 O&M programmed of the project:  
Post Project recurrent O&M works will be arranged from the regular O&M allocation.
- 4.4 Impact of the Project -  
4.4.1 Direct:
  - Protection of river bank erosion on both bank of Bhuboneswar river.
  - Protection of surrounding community from inufdation during monsoon period.
  - Due to re-excavation, water carrying capacity & navigation of Bhuboneswar river has increased.
- 4.4.2 Indirect:
  - Socio-economic development of the project area.
  - Safety of public and government owned assets and natural resources.
- 4.5 Transfer of Technology and Institutional Building through the project:  
Not Applicable.
- 4.6 Employment generation through the project:  
Yes. Employment generated for skilled/unskilled manpower during construction period. As the project has protected Bhuboneswar Bazar, Majida Begum Mohila College, so defenitely there is further opportunities for employment generation.
- 4.7 Possibility of Self Employment:  
There are possibilities of self-employment as existing commercial & business centers are protected.
- 4.8 Possibility of women-employment opportunity:  
Yes, there is possibility of women-employment through the project.
- 4.9 Women's participation in development:  
Yes.
- 4.10 Probable Impact on Socio-Economic activity:  
By protecting the river bank erosion, the threat on the living community of being landless and homeless has been eradicated and henceforth the local business has been flourished in full swing. As a result, the socio-economic life has revived ensuring a sustainable growth.
- 4.11 Impact on environment:  
Environmental enhancement is achieved through the implementation of the Project. Bank erosion hazards of environment are eradicated in order to ensure the safety of local community as well as to boost up the flow capacity of river.
- 4.12 Sustainability of the project:  
The project is sustainable but requires periodic maintenance.
- 4.13 Contribution to poverty alleviation/reduction:  
The project fulfilled the following benefits in compatible strategic goal i.e., a) Reduction of vulnerability to river erosion, b) Growth of local business on the protected bank of Bhuboneswar river, c) The enhanced depth due to dredging/ re-excavation will facilitate the production of crop and fishery of concerned project area.
- 4.14 Opinion of the public representatives, local elite, local administration, teachers, Religious leaders, women's representatives etc.  
Positive remarks regarding the project's implementation.
- 4.15 Contribution of Micro-credit programmes and Comments on overlapping with any NGO activities.  
Not Applicable

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

5.1	Project Management: N/A	5.11	Design formulation/approval: N/A
5.2	Project Director: N/A	5.12	Project aid disbursement and re-imburement: N/A
5.3	Land Acquisition: N/A	5.13	Mission of the development partners: N/A
5.4	Procurement: N/A	5.14	Time & Cost Over-run: As mentioned in B-01.
5.5	Consultancy: N/A	5.15	Project Supervision/Inspection: N/A
5.6	Contractor: The Contractors of the Project were not able to complete the works in original implementation period due to various reasons. Thus, the time extensions of the packages were made and the project period was extended accordingly.	5.16	Delay in Decision: N/A
5.7	Manpower: N/A	5.17	Transport: N/A
5.8	Law & Order: N/A	5.18	Training: N/A
5.9	Natural calamity: N/A	5.19	Approval: N/A
5.10	Project financing, allocation and release: The project was ADP 2021-22 drop-out. Later it has been included in RADP 2021-22.	5.20	Others: Works hampered due to covid-19 situation.

6. Remarks & Recommendations of the Project Director:

The main objective of the project *“Re-excavation of Bhuboneswar river and protection of structures/properties from the erosion of Pona river & Bhuboneswar river in Bhandaria Upozila of Perojpur District (1<sup>st</sup> Revised)”* is to protect the bank of Bhuboneswar river on both sides about 3000 meter from the erosion and dredging the river for a length of 13.300 km. Due to implementation of the project, physical safety and sense of security among the stakeholders have been developed and have also caused positive impacts on agriculture and fish cultivation.


“Re-excavation of Bhuboneswar river and protection of structures/properties from the erosion of Pona River & Bhuboneswar river in Bhandaria Upozila of Perojpur District (1<sup>st</sup> Revised)” project has made a positive impact upon the project area and the inhabitants in various ways. The project has improved the socio-economic status of the area. The inhabitants inside the project area are getting the benefits of the project in fullest. The land/ river bank erosion on both sides of Bhuboneswar river is protected and has been made stable. The households and markets on the protected river bank will enjoy the security and its beautification. Re-excavation of Bhuboneswar river has made a huge impact on irrigation, fish cultivation, transportation and utilization of river water on household activities. Thus, the implementation of this project endorses a strong positive impact on socio economic life by fulfilling the goals 1, 2, 11, 12, 13 and 15 of Sustainable Development Goals (SDGs) set by United Nations Development Programme.

This project is performing well and good and as per expectation and can be declared as sustainable. Like any other development projects especially as a hydrological project of more numbers of uncertainties, it

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will require periodic maintenance of the physical structures. Upon ensuring periodic maintenance as per requirement, the life of the project can be extended up to greater extent.


Date: 26, 09, 2022

  
(Mahbube Moula Md. Mehedy Hasan)  
Executive Engineer  
Perojpur O&M Division  
BWDB, Perojpur  
&  
Project Director

**7. Remarks/Comments of Agency Head:**

The project provides protection against river bank erosion of both banks of Bhuvoneshwar River under Bhandaria upazilla of Projpur district by constructing river bank protection. One of the major components of the project was bank protection work which provides safeguards for public and private establishments of worth Tk. 28812.00 lakh in the project area. Another major component of the project was the dredging of the Bhuvoneshwar and Pona Rivers which results in increased navigability and source of surface water for irrigation. Overall, this project is serving its intended purpose.

Date: .....

  
28/09/2022  
Signature and Seal  
(FAZLUR RASHID)  
Director General  
BWDB, Dhaka.

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

The main objective of the project is to protect 3.000 km of both banks of Bhuvoneshwar River under Bhandaria Upazila from erosion of Bhuvoneshwar and Pona Rivers including re-excavation of Bhuvoneshwar River in Perojpur District. The implemented 3.000 km protective works safeguarded properties worth of Tk. 28812.00 lakh in the project area. Re-excavation of 13.300 km of Bhuvoneshwar River has increased the water conveyance capacity of the river. It has increased navigability and surface water irrigation scope. The project is performing well and good as per expectation and can be declared as sustainable. Proper maintenance and monitoring should be ensured so that the outcome of the project sustains effectively.

Date: .....

Signature and Seal