



## **BANGLADESH WATER DEVELOPMENT BOARD**

### **PROJECT COMPLETION REPORT**

**IMED: 04/2003 (Revised)**

**Name of Project: Protection of Flood Embankment along the Right Bank of Jamuna River at Antarpara, Daripara and Adjacent Area under Bogra District.**

Name of Division : Bogra O&M Division, BWDB, Bogra  
Name of Circle : Bogra O&M Circle, BWDB, Bogra.  
Name of Zone : North Western Zone, BWDB, Rajshahi.

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

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

**A. PROJECT DESCRIPTION :**

01. Name of the Project : Protection of Flood Embankment along the Right Bank of Jamuna River at Antarpara, Daripara and adjacent area under Bogra District.
02. Administrative Ministry/Division : Ministry of Water Resources
03. Executing Agency : Bangladesh Water Development Board (BWDB)
04. Location of the Project : Upazila-Sariakandi & Dhunot, District-Bogra.
05. Objective of the Project : To Save Antarpara, Daripara and adjacent area under Sariakandi & Dhunot Upazilla in Bogra District from the erosion of right bank of Jamuna River.
06. Estimated Cost :

(In lakh Taka)

	<b>Original</b>	<b>Latest Revised</b>
(a) Total	11686.89	11770.00
(b) Taka	11686.89	11770.00
(c) Foreign Currency	0.00	0.00
(d) Project Aid	0.00	0.00
(e) RPA	0.00	0.00

07. Date of Approval : 

<b>PCP</b>	<b>PP</b>
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- (a) Original : 09 March, 2011
- (b) Latest Revised : 12 June, 2014

08. Implementation Period :

	<b>Date of Commencement</b>	<b>Date of Completion</b>
(a) Original	November 2010	June 2012
(b) Latest Revised	November 2010	June 2016
(c) Actual	June 2011	June 2016

*X* 

## 09. Financing Arrangement (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	
						Original	Revised
1	2	3	4	5	6	7	8
Not Applicable							

## b) GOB :

(In lakh Taka)

Total amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
11770.00	-	11770.00	-

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

(In million)

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
Not Applicable						

## 9.3 Re-imbursible Project Aid (RPA): Not Applicable

(In lakh Taka)

R P A Amount		Amount Spent	Amount Claimed	Amount Re-imbursed	Remarks
As per PP	As per Agreement				
1	2	3	4	5	6
Not Applicable					

**B. IMPLEMENTATION POSITION****01. Implementation Period :**

Implementation Period as per PP		Actual Implementation period	Time Over-run (% of original implementation period)	Remarks
Original	Latest Revised			
1	2	3	4	5
November, 2010- June, 2012	November, 2010- June, 2016	June, 2011- June, 2016	240.00%	

**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
<b>TOTAL</b>	11686.89	11770.00	11136.59	0.00	
<b>TAKA</b>	11686.89	11770.00	11136.59	0.00	
<b>PA</b>	0.00	0.00	0.00	0.00	

**03. Project Personnel :**

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	Male	Female
Officer (s)	Existing manpower of the implementing agency were deployed during execution of the project.					
Staff(s)						
Total :						

**04. Training of Project Personnel (Foreign/Local) :**

Field of Training /Study tour/workshop/ 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	Not Applicable				
b. Local	Not Applicable				



## 05. Component-wise Progress (As per latest approved PP) :

(In lakh Taka)

Items of work (as per PP)	Unit	Target (as per PP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
<b>A. Revenue Component:</b>						
CNG	1Item	4.00	1Item	3.99	1Item	
Petrol & Lubricant	1 Item	7.00	1 Item	6.99	1 Item	
Printing & Publication	1 Item	4.00	1 Item	3.18	1 Item	
Office Statinery, Seal & Stamps	1 Item	4.00	1 Item	4.00	1 Item	
Honorium for the members of the project Steering Committee	1Item	3.27	1Item	3.10	1Item	
Honorium for Mid Term Evaluation	1 Item	10.00	1 Item	4.37	1 Item	
Survey & Investigation	1Item	5.00	1Item	5.00	1Item	
Repair & Maintenance of existing Vehicles(Jeep-2 nos, Pick-up-1 no)	1 Item	5.00	1 Item	4.53	1 Item	
<b>Sub Total (A) :</b>		42.27		35.16		
<b>b. Capital Component</b>						
Jeep (2350 C.C) (5 Doors) (Manufactured by PRAGATI) ( 1 no)	1 No.	50.00	1 No.	50.00	1 No.	
Motor Cycle(125C.C) (4 nos)	4 Nos	8.00	4 Nos	7.44	4 Nos	
Levelling Instument with Stands (2 nos)	2 Nos	1.50	2 Nos	1.50	2 Nos	
Differential GPS (2 nos)	2 No.	11.00	2 No.	5.00	2 No.	
Brand Computer with Laser Printer & accessories (Two Laptop, One Desktop Computer, Two Leser Printer) (5 nos)	3 Nos	4.00	3 Nos	4.00	3 Nos	
Bank Revetment Work (3235 m)	3235m	11249.49	3235m	10664.45	3235m	
Re-sectioning of Embankment and ditch/ pond filling (2515 m)	2515m	403.74	2515m	369.04	2515m	
<b>Sub Total (B) :</b>		11727.73		11101.43		
<b>Total (A+B):</b>		11770.00		11136.59		



## 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
Mr. Md. Afzal Hossain, Chief Engineer Scale: 25750-33750 Tk	--	Part time	Yes	09.03.2011	04.11.2012	
Mr. Abdur Rob Mia, Chief Engineer Scale: 33500-39500 Tk	--	Part time	Yes	05.11.2012	16.07.2013	
Mr. Nurul Islam Sarker Executive Engineer Scale: 22250-31250 Tk	--	Part time	Yes	17.07.2013	30.10.2014	
Mr. AKM Momtaz Uddin, Superintending Engineer Scale: 25750-33750 Tk	--	Part time	Yes	31.10.2014	25.06.2015	
Mr. Babul Chandra Shil, Superintending Engineer Scale: 50000-71200 Tk	--	Part time	Yes	26.06.2015	Till Today	

## 07. Procurement of Transport (in Nos.) :

Type of transport	Number as per P.P.	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
Jeep (2350cc)	1 Nos	June/2011	--	--	--	
Motor Cycle (125 cc)	4 Nos	June/2016	--	--	--	

## Equipment: Survey Instrument.

Type of transport	Number as per P.P.	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
Leveling Instrument	2 nos.		--	--	--	
Differential GPS	1 nos.		--	--	--	

X 

**08. Procurement of Goods, Works and Consultancy Services:**

08.1 Goods & Works of the Project costing above Tk. 200.00 lakh. and Consultancy above Tk. 100.00 lakh :

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Proposal Cost (in crore Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per PP	Contracted value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Bank Revetment Work along the Right Bank of Jamuna River from km 112.305 to km.112.655= 350 m with 150m End Termination (Package No. WP-01)	1989.74	1989.74	14.02.2011	14.07.2011	30.06.12	25-06-16
Bank Revetment Work along the Right Bank of Jamuna River from km 112.655 to km.113.20= 545 m (Package No. WP-02)	2055.03	2055.03	04.02.2013	08.05.2013	25.06.14	25-06-15
Bank Revetment Work along the Right Bank of Jamuna River from km 113.20 to km.113.65= 450 m (Package No. WP-03)	1453.57	1453.57	23.10.2013	07.04.2014	29.06.14	30-06-15
Bank Revetment Work along the Right Bank of Jamuna River from km 113.650 to km.114.100= 545 m (Package No. WP-04)	1155.70	1181.84	22.02.2011	06.06.2011	30.06.12	25-06-15
Bank Revetment Work along the Right Bank of Jamuna River from km 114.10 to km.114.540= 440 m (Package No. WP-05)	1132.25	1132.25	14.02.2011	06.06.2011	30.06.12	25-06-16
Re-sectioning of Embankment & Ditch/ Pond Filling from km.112.305 to km. 114.540= 2235 m (Package No. WP-06)	311.12	311.12	22.02.2011	29.06.2011	30.06.12	30-06-12
Bank Revetment Work along the Right Bank of Jamuna River from km 135.000 to km.135.300= 300 m (Package No. WP-07)	1029.25	1029.25	06.05.2013	27.10.2013	26.06.14	30-06-15
Bank Revetment Work along the Right Bank of Jamuna River from km 135.300 to km.135.700= 400 m (Package No. WP-08)	1395.89	1395.89	06.05.2013	27.10.2013	26.06.14	30-05-15
Bank Revetment Work along the Right Bank of Jamuna River from km.135.700 to km.136.000= 300 m (Package No. WP-09)	1038.06	1038.06	06.05.2013	27.10.2013	26.06.14	26-06-14
Re-sectioning of Embankment & Ditch/Pond Filling from km. 135.400 to km. 135.680= 280 m (Package No. WP-10)	92.62	58.11	28.09.2014	26.11.2014	29.04.15	29-04-15

## 8.2 Use of Project Consultant (s) (Foreign/Local):

Name of the Field	Approved man month		Actual man month utilised	Remarks
	As per PP	As per contract		
1	2	3	4	5
a) Foreign	Not Applicable			
b) Local	Not Applicable			

## 09. Construction/Erection/Installation Tools &amp; Equipment :

Description of items	Quantity (as per PP)	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
Motor Cycle(125C.C) (4 nos)	4 Nos	4 Nos				
Levelling Instrument with Stands (2 nos)	2 Nos	2 Nos				
Differential GPS (2 nos)	2 Nos	2 Nos.				
Brand Computer with Laser Printer & accessories (Two Laptop, One Desktop Computer, Two Leser Printer) (5 nos)	3 Nos	3 Nos				

C. FINANCIAL AND PHYSICAL PROGRAMME :

## 01. (a) Original and revised schedule as per PP :

(In lakh Taka)

Financial Year	Financial provision & physical target as per original PP				Financial provision & physical target as per latest revised PP			
	Total	Taka	P.A.	Physical %	Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9
2010-11	3537.16	3537.16	-	30.27	200.00		-	1.70%
2011-12	8149.73	8149.73	-	69.73	499.98		-	4.25%
2012-13	-	-	-	-	1999.97		-	16.99%
2013-14	-	-	-	-	3950.00		-	33.56%
2014-15	-	-	-	-	5120.05		-	43.50%
<b>Total:</b>					<b>11770.00</b>			<b>100.00%</b>



**01. (b) Revised ADP allocation and progress :**

(In lakh Taka)

Financial Year	Revised Allocation & target				Taka release	Expenditure & physical progress			
	Total	Taka	P.A.	Physical %		Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9	10
2010-11	200.00	200.00	-	1.70%	200.00	199.97	199.97	-	1.70%
2011-12	500.00	500.00	-	4.25%	500.00	500.00	500.00	-	4.25%
2012-13	2000.00	2000.00	-	20.92%	2000.00	1999.98	1999.98	-	20.92%
2013-14	4550.00	4550.00	-	38.66%	4550.00	4550.00	4550.00	-	38.66%
2014-15	3500.00	3350.00	-	29.73%	3500.00	3335.50	3335.50	-	29.73%
2015-16	558.00	558.00	-	4.74%	558.00	551.14	551.14	-	4.74%
<b>Total</b>	<b>11308.00</b>	<b>11308.00</b>		<b>100.00%</b>		<b>11136.59</b>	<b>11136.59</b>		<b>100.00%</b>

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

Objectives as per PP	Actual achievement	Reasons for shortfall, if any
(a) The main objective of the project is to protect Antarpara, Daripara and adjacent area under Sariakandi & Dhunat Upazilla in the District of Bogra from the erosion of the Jamuna River by execution of 3235.00 metre revetment work along the Right Bank of Jamuna River.	3.235 km. revetment works is completed along the vulnerable river bank at Antarpara, Daripara and adjacent area under Sariakandi & Dhunat Upazilla in the District of Bogra.	No Shortfall
(b) Another important objective of the project is to safeguard segment of existing Brahmaputra Right Bank Flood Control Embankment (BRE), agricultural land and other establishments adjacent to project area is now safe from devastating erosion of the Jamuna river.	The existing Brahmaputra Right Bank Flood Control Embankment (BRE), agricultural land and other establishments adjacent to project area is now safe from devastating erosion of the Jamuna river.	
(c) Huge immovable public & private properties with estimated total worth of Tk. 43720.00 lakh dispersed in the vicinity of affected area will be saved from river erosion.	After the implementation of the protective work valuable public land, different establishments and other properties in the project area and it's vicinity has been saved from river bank erosion.	

X



**E. BENEFIT ANALYSIS****01. Annual Out-put:**

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) Bank Revetment work	m	3235.00 m	3235.00 m

**02. Cost / Benefit :**

Item	Estimated	Actual
<b>(1) Benefit cost ratio of the project</b> (i) Financial (ii) Economic	(i) 1.44:1.00 (ii) 1.69:1.00	Will be evaluated later by BWDB's concerned office & IMED.
<b>(2) Internal Rate of Return</b> (i) Financial (ii) Economic	(i) 18.76 % (ii) 22.06%	

**03. Please give reasons for shortfall, if any, between the estimated and actual benefit:**  
No shortfall found between the estimated and actual benefit.

X 

**F. MONITORING AND AUDITING****0.1 Monitoring:**

<b>Name &amp; designation of the inspecting official</b>	<b>Date of Inspection</b>	<b>Identified Problems</b>	<b>Recommendations</b>
1	2	3	4
Mr. Montu Kumar Bishwas, Joint Chief, MoWR Mr. Siddiqur Rahaman, DG, IMED Mr. Khandar Ahsan Hossain, Joint Chief, Planning Commision,Dhaka. Mr. Jane Alam, Deputi Chief, MoWR Mr. Abu Yusuf md. Rasel, Assistant Chief, MoWR.	03.02.2016 to 05.02.2016	Char land has been developed adjacent to U/S end-termination of Package WP-01.	Suggested to declair complete so far implemented work of Package No. WP-01.  Dumping the stock pile placed scattered in doripara area as per requirement of executed work.
Mr. Porimol Bose, Deputy Director, IMED.	16.04.2015	Char land has been developed adjacent to U/S end-termination of Package WP-01.	IMED recommended not to continue the dumping sand filled geo bags. Suggested to visit immediately the MoWR and BWDB design officials to take decision about further dumping of geo-bags and C.C blocks.
Md. Ismail Hossain, DG, BWDB.	02.05.2015	Formation of char land due to morphological change of river adjacent up stream of WP-01.	Suggested to declair complete so far implemented work of Package No. WP-01.

**0.2. Auditing during and after Implementation:****2.1. Internal Audit:**

<b>Period of Audit</b>	<b>Date of submission of Audit Report</b>	<b>Major findings/ objections</b>	<b>Whether objections resolved or not.</b>
1	2	3	4
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**2.2. External Audit:**

<b>Audit period</b>	<b>Date of submission of Audit Report</b>	<b>Major findings/ objections</b>	<b>Whether objections resolved or not.</b>
1	2	3	4
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## **G. DESCRIPTIVE REPORT**

### **I. General Observations/Remarks of the Project on :**

#### **1.1 Background:**

The Brahmaputra-Jamuna River system is the largest and most important in Bangladesh accounting for 50% of the total inflow into the country across the border. This river is braided with frequently shiftings of channels. Along the Brahmaputra-Jamuna River, average erosion rates are 100m/year. The bank erosion along this river system has deleterious social and economic impacts leading to loss of land and property, environmental degradation and human hazards.

Flood Embankment (known as Brahmaputra Right Embankment-BRE) was constructed parallel to the right bank during the sixties and early seventies stretching from Teesta down to the Hurasagar confluence to protect floods and bank-line erosion. Later on, appropriate measures were taken at different important locations i.e. construction of hard points, groyne, and spurs etc. to mitigate devastating bank erosion and breaching of BRE. About 140.00 km out of total length of 220.00 km had to be retired over last 20 years since erection of BRE due to bank-line erosion. Hence erection of bank protection at several locations (27 strategic locations, ref: BRTS) was completed to stop westward migration of the river and prevent the possibility of merger of the Bangali & Jamuna Rivers and thus ensure protection of BRE.

Apart from above circumstances, a separate project entitled as “Spur construction project at Hasnerpara, Chandanbaisa, Shaharabari & Baniazan for erosion protection of the Jamuna River” was initiated in FY: 2000-2001. Out of total 6 Nos. , 2 Nos. spurs were accomplished at Hasnerpara U/S of Antarpara at Sariakandi Upazilla in 2001-2002 (1 No. at BRE km: 110.700 and 1 No. at BRE km: 111.900.) The immediate resultant effect has been safety of vast area in between BRE Km: 108.000 to km: 112.000 ensured from the extent of erosion trended of the river. Despite, due to non existence of any bank protection type structure at the total segment of 5.600 km. from BRE km. 111.900 (Hasnerpara Spur No. 2) to km.117.500 (Kalitala Groyne) and Main Flow of the Jamuna River i.e. Channel no.2 being straightforwardly merged with channel no.1 adjacent to right bank generated uniformity of common river flow caused devastating erosion in the mid edge of said BRE length at Titporal.

Accordingly a separate project named as “Prevention of Merger of the Bangali River and the Jamuna River at Titporal and Devdanga in the District of Bogra” was initiated in the year 2003-2004 and completed in 2005-2006. Under this project 2000 meter revetment work was completed in between BRE km. 114.500 to km. 117.500. As a result, the Titporal area is saved from the bank erosion of the Jamuna River. After construction of the said project, active bank erosion observed at Antarpara and adjacent area from BRE km. 112.305 to km.114.540, however, erosion occurred in this area from 2002 to 2008. The rate of erosion was not so significant, but during the year 2009 severe erosion occurred and average erosion observed 100 meter. Set back distance at this vulnerable segment is 0.00 meter (minimum) and 60.00 meter maximum. Active bank erosion observed at Daripara and adjacent area from BRE km. 134.750 to km. 135.750. About 600.00 meter length of BRE Embankment has already been engulfed in Jamuna River during flood 2010.

In this circumstances, it is apprehended to further extend intensity of erosion in ensuing monsoon season. In this context there has been a long standing demand for taking up immediate protective measures against devastating river erosion. The matter was discussed at higher policy level and opined for initiating immediate sustainable solution against devastating river erosion to safeguard lives, properties and natural environment.

Accordingly, present project has been formulated for immediate erection of 3235.00 meter bank protective work dispersed in Antarpara and Daripara of Sariakandi & Dhunat upazila in the district of Bogra.

### 1.2 Justification/Adequacy:

Bangladesh is a riverine country and bank-line erosion of different rivers has been a recurrent effect. River bank erosion in alluvial lands of Bangladesh is a complex and dynamic thrust of nature due to strong onrush of water and major variation in between normal water flow and surges of inflow during monsoon & post-monsoon period in each year. The monsoon discharge of the major rivers is so large that there is recurrence of floods every year. Sometimes it becomes very severe and causes immense damages impacted by occurrence of devastating river erosion. This has significant social and economic impacts. The loss of land, crop and property has led to landlessness and impoverishment of thousands of dwellers living within bankline/flood-plains. The large seasonal variation in river flow results in varying sediment transportation capacity and causes river-bank erosion, migration of river-banks and meandering river channels.

### 1.3 Objectives:

- ▶ The main objective of the project is to protect Antarpara, Daripara and adjacent area under Sariakandi & Dhunat Upazilla in the District of Bogra from the erosion of the Jamuna River by execution of 3235.00 metre revetment work along the Right Bank of Jamuna River.
- ▶ Another important objective of the project is to safeguard segment of existing Brahmaputra Right Bank Flood Control Embankment (BRE) and vast arable lands potential for agricultural production as well as valuable establishments in the area from devastating erosion of the river Jamuna.
- ▶ Huge immovable public & private properties with estimated total worth of Tk. 107120.00 lakh dispersed in the vicinity of affected area will be saved from river erosion.

### 1.4 Project revision with reasons:

DPP costing Tk. 11686.89 lakh was approved by the ECNEC meeting held on 25-01-2011. Bank Revetment Work at Antarpara from BRE km 112.305 to km 114.540= 2235 meter consists of 5 Packages i.e. Package No. WP-01, WP-02, WP-03, WP-04 & WP-05. This is continuous work without any break. The works for Package No. WP-01, WP-04 & WP-05 was in progress except Package No. WP-02 & WP-03. The contract agreement for Package No. WP-02 & WP-03 including WP-07, WP-08 & WP-09 have been terminated. The execution of the terminated Packages were immediately essential to ensure the project benefits as per field condition. Otherwise, the project area might damage resulting the damage of BRE and vulnerable public properties. In that period, the contract price of Package No. WP-02, WP-03, WP-08 & WP-09 had been increased.

In Daripara area from km 135.400 to km 135.680= 280 m length, there was a ditch beside the proposed Bank Revetment Work. For the safety of Bank Revetment work it was required to fill the ditch with Re-sectioning of Embankment. For this, a new Package (Package No. WP-10) was essential to include in the DPP to make the project effective. On the otherhand, Bank



Revetment work at Kamalpur from BRE km. 133.350 to km. 134.750=1400 m had been proposed in the another ongoing approved project under "Protection of Right Bank of the Jamuna River in Bogra District" It seems that construction of Bank Revetment work in that area might take up from next financial year. This area was adjacent/nearby at Daripara from BRE km. 134.750 to km. 135.750 =1000 m under the subject mentioned project without any break. For this reason, the End Termination part from Daripara area had been omitted as per suggestion of Design office of BWDB.

For the reasons stated above the project was required to revise. RDPP of the project with total cost of Tk. 11,778.05 lakh was discussed in the DPEC meeting of the Ministry of Water Resources held on 16.04.2014. After detailed discussion in the meeting, the RDPP costing Tk. 11,770.00 had been recommended and approved by the Competent Authority.

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

Antar Para, Dori Para and adjacent area under Sariakandi & Dhunat Upazila in the District of Bogra was under the threat of Bank erosion of the Jamuna River. Most of the inhabitants of these area were already shifted there house several times due to the erosion problem. Local people became frustrated. The socio-economic condition was deteriorating day by day. There was no other way to stop the erosion except Bank revetment works because many previously constructed structured failed to tackle the erosion problem. It was also necessary to protect the existing Brahmaputra Right Bank Flood Control Embankment (BRE) from devastating erosion of the river Jamuna.

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

◆ **Project Identification:**

The Project is located along the left bank of Jamuna River.

◆ **Project Preparation:**

Due to the severe erosion problem in Antar Para, Dori Para and adjacent area at Sariakandi & Dhunat Upazila in Bogra District, many cultivable lands, villages , infrastructures are engulfed in Jamuna river. The BRE flood control embankment has been breached several times due to the erosion of Jamuna River. To mitigate the erosion problem of the area and to save the BRE flood control embankment the project inevitable.

◆ **Appraisal:**IWM provided a study report on the project area in 2005.

◆ **Credit Negotiation:** Not Applicable

◆ **Credit Agreement:** Not Applicable

◆ **Credit Effectiveness:** Not Applicable

◆ **Loan Disbursement :** Not Applicable

◆ **Loan Conditionalities:** Not Applicable

◆ **Project Approval :** The project was approved on 25.01.2011 & and subsequent revision was approved on 12.06.2014.

◆ **Others (if any):** Nill



**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 stake holders are directly taking advantages of the created facilities of the project.
- 4.3 O & M programme 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 houses, educational institution, mosques, roads, agricultural lands from river bank erosion.
  - Protection of BRE flood control embankment from being breached due to erosion.
- 4.4.2 Indirect:**
- Safety of human livelihood and properties.
  - Improvement of socio-economic condition.
- 4.5 Transfer of Technology and Institutional Building through the project:**  
Not Applicable
- 4.6 Employment generation through the project.:**  
A large number of skilled/unskilled workers were employed during construction period.
- 4.7 Possibility of Self employment :**  
There are possibilities of self employment as existing commercial and business centres are protected from river bank erosion.
- 4.8 Possibility of women-employment opportunity:**  
Yes, there is possibility of women-employment through the project.  
**Women's participation in development:** Yes.
- 4.9 Probable Impact on Socio-Economic activity. :**  
By protecting the river bank erosion, various infrastructures are saved from the erosion. As a result socio-economic balance in the locality is enhanced.
- 4.10 Impact on environment :**  
Environmental enhancement is achieved through the implementation of the project.
- 4.11 Sustainability of the project:**  
The project is sustainable but requires periodic maintenance.
- 4.12 Contribution to poverty alleviation/reduction :**
- Huge public and private properties dispersed around the said erosion prone area with approximate total worth of Tk. 43720.00 lakh is saved from river bank erosion by the implementation of the project.
  - It generated employment for skilled/unskilled workers during construction period and also in annual O&M phase. Also better employment access in business sector is enhanced.
  - Natural security against river bank erosion is restored.



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

Positive remarks regarding the project.

**4.14 Contribution of Micro-credit programmes and Comments on overlapping with any NGO activities.:**

Not Applicable.

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

5.1	Project Management	5.12	Project aid disbursement and re-imbursment
5.2	Project Director	5.13	Mission of the development partners.
5.3	Land Acquisition	5.14	Time & Cost Over-run
5.4	Procurement	5.15	Project Supervision/Inspection
5.5	Consultancy	5.16	Delay in Decision
5.6	Contractor	5.17	Transport
5.7	Manpower	5.18	Training
5.8	law & Order	5.19	Approval
5.9	Natural calamity	5.20	Others.
5.10	Project financing, allocation and release.		
5.11	Design formulation/approval		

Due to inadequate budget allocation in compare to target, the proget was delayed to complete. After the execution of majore part of the protection work in Antarpara ( Package No- 01), a new char was formed adjacent to protective work.

Due to the non availability of BWDB'S own accured land, it was very difficult to stock the C.C block as a stock pile.


In the above crecumstances stock pile of some packages were reduced (WP-01, WP-04 & WP-05). And in addition to that as per recommendation of both IMED and Stering committee , the so far implemented work (80.00%) had been declaired as complete.

**6. Remarks & Recommendations of the Project Director :**

The river Jamuna is the most erosion prone river in Bangladesh. Sonatola, Sariakandi and Dunot upazilla were seriously affected by the right bank erosion of the river. Many Government and Non-Government establishment, educational institutions, mosques, roads and agricultural land had been engulfed in the river. To protect the further erosion of Antar Para, Doripara areas from the right bank erosion, this project was approved in ECNEC held on 25.01.2011. After the successful implementation of this project, the project area has been protected from severe right bank erosion of the river Jamuna. The safety of flood control embankment along the right bank of Jamuna River (Brahmaputra Right Embankment) has been increased. The socio-economic condition of the people has been improved. Scope of new jobs & works have been created. The safety of human livelihood and properties have also been improved. The project will also contribute to attain national self sufficiency in food grains. Proper monitoring and regular maintenance of the revetment works and others necessary components should be continued to ensure the sustainability of the project. Otherwise the benefit of the project might be hampered.

Date : 08-09-2016

Signature and seal of the Project Director/Manager

  
BABUL CHANDRA SHIL  
Superintending Engineer  
Bogra O & M Circle  
BWDB, Bogra.

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

Antarpara, Doripara and adjacent areas under Sariakandi and Dhunat upazilla of Bogra district have been protected from devastating erosion of Jamuna river through this project. Also the project provides safeguard to the segment of existing BRE embankment passing through the project area. Thus project objectives have been achieved in all aspect.

Date : .....

  
Signature and Seal  
(Md. Jahangir Kabir)  
Director General  
BWDB, Dhaka.

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

Date :

Signature and Seal