

BANLADESH WATER DEVELOPMENT BOARD

PROJECT COMPLETION REPORT : IMED 04/2003 (Revised)

Name of Project : Protection of Baguria of Gaibandha Sadar Upazilla & Sayedpur, Kanchipara, Balashighat of Fulchari Upazilla under Gaibandha District from erosion of the river Jamuna.

Name of Division : Gaibandha O&M Division, BWDB, Gaibandha.

Name of Circle : Rangpur O&M Circle-I, BWDB, Rangpur.

Name of Zone : Northern Zone, BWDB, Rangpur.

August-2010

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 Baguria of Gaibandha Sadar Upazilla & Sayedpur, Kanchipara, Balashighat of Fulchari Upazilla under Gaibandha District from erosion of the river Jamuna.
02. Administrative Ministry/Division : Ministry of Water Resources
03. Executing Agency : Bangladesh Water Development
04. Location of the Project : Baguria in Gaibandha Sadar and Sayedpur, Kanchipara & Balashighat in Fulchari Upazilla.

05. Objective of the Project:

The main objective of the project is to protect the partial area of Baguria mouza under Gidari union in upazila Gaibandha Sadar and Syedpur, Chaterkandi, Kanchipara, Kaiserhat, Vetkirhat and Balashi railing ferry ghat etc in Fulchari upazila by implementing 1.87 km permanent protective work. The objective of the project has already been achieved by implementing 1870 m permanent protective work. In addition the project has created employment opportunities for landless people including socio-economic development and to ensure sustainable economic development of the area by accelerating agriculture and industrial development. The project has ensured sustainable development by protecting the area from the erosion of the river Brahmaputra. The project has in addition protected Gaibandha town from the bank erosion threatening as because the aerial distance of the town from Brahmaputra is only 3.5 km.

06. Estimated Cost :

(In lakh Taka)

	Original	Latest Revised
(a) Total	5000.00	5000.00
(b) Taka	5000.00	5000.00
(c) Foreign Currency	-	-
(d) Project Aid	-	-
(e) RPA	-	-

07. Date of Approval :

PCP	DPP
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- (a) Original : 26.12.2005
- (b) Latest Revised : -

08. Implementation Period:

	Date of Commencement	Date of Completion
(a) Original	2005-2006	2006-2007 (Original)
(b) Latest Revised	-	2009-2010 (Extension)
(c) Actual (approved)	-	-

09. Financing Arrangement (Source-wise): GOB (Government of Bangladesh)

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 Effective -ness	Date of Closing	
						Original	Revised
1	2	3	4	5	6	7	8
Does not arise							

b) GOB:

(In lakh Taka)

Total amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
5000.00	5000.00	0.00	-

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
Does not arise						

9.3 Re-imbursible Project Aid (RPA):

(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
Does not arise					

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
(i) 2005-2006 to 2006-2007 (ii) 2005-2006 to 2009-2010 (extension)	-	2005-2006 to 2009-2010	250%	Project was not revised, only extension of implementation period

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	5000.00	-	4519.38	-	
TAKA	5000.00	-	4519.38	-	
PA	-	-	-	-	

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		
1	2	3	4	5	Male	Female
Officer (s)						
Staff(s)	Project is implemented by existing manpower					
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

Does not arise

b. Local

Does not arise.

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
a) Revenue component:						
Pay of officers	1 Item	-	-	-	-	
Pay of Establishment	1 Item	-	-	-	-	
Allowances	1 Item	-	-	-	-	
Supplies and services	1 Item	-	-	-	-	
Survey & investigation (including mathematical model study)	1 Item	40.00	100%	39.69	100%	
<u>Repair maintenance and Rehabilitation:</u> Repair & fuel for transport & vehicle	1 Item	12.60	100%	11.98	100%	
<u>Grants in Aid:</u> Overhead cost	1 Item	361.40		30.00		
Block allocation	1 Item	-	-	-	-	
(a) Sub-Total of Revenue:		414.00		81.67		
b) Capital component:						
Acquisition of assets:						
Machinery & Equipment	-	-	-	-	-	
Transport & Vehicle	1 Item	8.00	100%	6.49	100%	
<u>Construction of work:</u> River bank protective work (1.872 km)	km	4518.00	100%	4400.10	100%	Substantially 100% physical work completed
O&M during construction	1 Item	50.00	100%	21.18	100%	
Investment in Shares & Equities						
Capital Grants						
Loans and advances Development Import Duty and VAT						
<u>Capital Block Allocation & Misc. Capital Expenditure:</u> Contingency	1 Item	10.00	100%	9.94	100%	
b) Sub-Total of capital component:		4586.00		4437.71		
Grand total (a + b) :		5000.00		4519.38		

06. Information regarding Project Director (s):

Name & Designation with pay Scale.	Full time	Part time	Responsible for more than one project	Date of		Remarks
				Joining	Transfer	
1	2	3	4	5	6	7
Md. Saidur Rahman Tk. 22250-900-31250	-	Yes	Yes	20-03-2004	31-08-2005	
Md. Gulzar Rahman Tk. 22250-900-31250	-	Yes	Yes	31-08-2005	28-08-2007	
Md. Zahirul Islam 22250-900-31250	-	Yes	Yes	26-08-2007	28-02-2010	
Kazi Abu Baker Siddique 22250-900-31250	-	Yes	Yes	28-02-2010	Till	

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
Car	-	-	-	-	-	-
Jeep	-	-	-	-	-	-
Microbus	-	-	-	-	-	-
Minibus	-	-	-	-	-	-
Bus	-	-	-	-	-	-
Pick-up	-	-	-	-	-	-
Truck	-	-	-	-	-	-
Motor Cycle	4	2 nos.= 28.06.2007 2 nos.= 30.06.2008	-	2010-2011	Not arise	
By-cycle	-	-	-	-	-	-
Speed Boat	-	-	-	-	-	-
Launch	-	-	-	-	-	-
Others with name						

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
Construction of 113 metre (From m. 0.00 to m. 113.00) River Bank Protection work (upstream End Protection) at BRE km 63.800 under the Project "Protection of Baguria of Gaibandha Sadar Upazilla and Syedpur, Kanchipara & Balashi ghat of Fulchhari Upazila under Gaibandha District from the erosion of the River Jamuna" during the year 2006-2007.	2.99	2.99	(Tender Notice No. 01-G/2006-2007, Gaibandha O&M Division, BWDB, Gaibandha, Package No. BSKB-08/2006-07)	01-03-2007	01-03-2007	28-06-2007
Construction of 87 metre River Bank Protection work (From Km. 63.800 to Km. 63.887) under the Project "Protection of Baguria of Gaibandha Sadar Upazilla and Syedpur, Kanchipara & Balashi ghat of Fulchhari Upazila under Gaibandha District from the erosion of the River Jamuna" during the year 2006-2007.	2.44	2.44	(Tender Notice No. 06-G/2006-2007, Gaibandha O&M Division, BWDB, Gaibandha, Package No. BSKB-09/2006-07)	11-10-2007	08-02-2008	20-07-2008
Construction of 103 metre River Bank Protection work (From Km. 63.887 to Km. 63.990) under the Project "Protection of Baguria of Gaibandha Sadar Upazilla and Syedpur, Kanchipara & Balashi ghat of Fulchhari Upazila under Gaibandha District from the erosion of the River Jamuna" during the year 2007-2008.	2.41	2.41	(Tender Notice No. 01-G/2007-2008, Gaibandha O&M Division, BWDB, Gaibandha, Package No. BSKB-10/2006-07)	06-02-2008	22-01-2008	22-01-2008
Construction of 103 metre River Bank Protection work From Km. 63.990 to Km. 64.093 under the Project "Protection of Baguria of Gaibandha Sadar Upazilla and Syedpur, Kanchipara & Balashi ghat of Fulchhari Upazila under Gaibandha District from the Erosion of the river Jamuna" during the year 2007-2008.	2.34	2.34	(Tender Notice No. 01-G/2007-2008, Gaibandha O&M Division, BWDB, Gaibandha, Package No. BSKB-11/2007-08)	24-01-2008	12-05-2008	12-05-2008

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
Construction of 94 meter River Bank Protection work from Km 64.5745 to Km 64.6685 under the Project "Protection of Baguria of Gaibandha Sadar Upazilla and Syedpur, Kanchipara & Balashi ghat of Fulchari Upazilla under Gaibandha District from erosion of the river Jamuna" during the year 2008-2009.	2.00	2.00	(Tender Notice No. 04-G/2008-2009, Gaibandha O&M Division, BWDB, Gaibandha, Package No. BSKB-15/2008-09)	04-12-2008	25-04-2009	15-06-2010
Construction of 101 meter River Bank Protection work from Km 64.7625 to Km 64.8635 under the Project "Protection of Baguria of Gaibandha Sadar Upazilla and Syedpur, Kanchipara & Balashi ghat of Fulchari Upazilla under Gaibandha District from erosion of the river Jamuna" during the year 2008-2009.	2.20	2.20	(Tender Notice No. 04-G/2008-2009, Gaibandha O&M Division, BWDB, Gaibandha, Package No. BSKB-17/2008-09)	03-12-2008	25-04-2009	20-05-2010
Construction of 94 meter River Bank Protection work from Km 64.8635 to Km 64.9575 under the Project "Protection of Baguria of Gaibandha Sadar Upazilla and Syedpur, Kanchipara & Balashi ghat of Fulchari Upazilla under Gaibandha District from erosion of the river Jamuna" during the year 2008-2009	2.03	2.03	(Tender Notice No. 04-G/2008-2009, Gaibandha O&M Division, BWDB, Gaibandha, Package No. BSKB-18/2008-09)	04-12-2008	25-04-2009	24-06-2010
Construction of 112 meter River Bank Protection work from Km 64.9575 to Km 65.0695 under the Project "Protection of Baguria of Gaibandha Sadar Upazilla and Syedpur, Kanchipara & Balashi ghat of Fulchari Upazilla under Gaibandha District from erosion of the river Jamuna" during the year 2008-2009.	2.17	2.17	(Tender Notice No. 06-G/2008-2009, Gaibandha O&M Division, BWDB, Gaibandha, Package No. BSKB-19/2008-09)	04-12-2008	24-06-2009	25-06-2010

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
Construction of River Bank Protection work in between BRE Km 65.3115 to 65.392 = 80.50m under the Project "Protection of Baguria of Gaibandha Sadar Upazilla and Syedpur, Kanchipara & Balashi ghat of Fulchari Upazilla in Gaibandha District from the erosion of the river Jamuna" during the year 2009-2010.	2.72	2.72	(Tender Notice No. 05-G/2009-2010, Gaibandha O&M Division, BWDB, Gaibandha, Package No. BSKB-23/2008-09)	28-10-2009	24-04-2009	24-06-2010
Construction of River Bank Protection work in between BRE Km 65.392 to 65.4725 = 80.50m under the Project "Protection of Baguria of Gaibandha Sadar Upazilla and Syedpur, Kanchipara & Balashi ghat of Fulchari Upazilla in Gaibandha District from the erosion of the river Jamuna" during the year 2009-2010.	2.79	2.79	(Tender Notice No. 05-G/2009-2010, Gaibandha O&M Division, BWDB, Gaibandha, Package No. BSKB-24/2008-09)	28-10-2009	24-04-2009	24-06-2010
Construction of River Bank Protection work in between BRE Km 65.4725 to 65.5179 and End Protection (45.40+37.00=82.40m) under the Project "Protection of Baguria of Gaibandha Sadar Upazilla and Syedpur, Kanchipara & Balashi ghat of Fulchari Upazilla in Gaibandha District from the erosion of the river Jamuna" during the year 2009-2010.	2.55	2.55	(Tender Notice No. 05-G/2009-2010, Gaibandha O&M Division, BWDB, Gaibandha, Package No. BSKB-25/2008-09)	29-10-2009	24-04-2009	24-06-2010

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: Does not arise.

b) Local: Does not arise.

09. Construction/Erection/Installation Tools & 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
	 Does not arise					

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 DPP			
	Total	Taka	P.A.	Physical %	Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9
2005-2006	197.00	197.00	-	3.94	-	-	-	-
2006-2007	500.00	500.00	-	10.00	-	-	-	-
2007-2008	1200.00	1200.00	-	24.00	-	-	-	-
2008-2009	1000.00	1000.00	-	20.00	-	-	-	-
2009-2010	1960.00	1960.00	-	42.06	-	-	-	-
Total	4857.00	4857.00	-	100%	-	-	-	-

01. (b) ADP allocation and progress:

(In lakh Taka)

Financial Year	ADP 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
2005-2006	197.00	197.00	-	3.94	30.00	30.00	30.00	-	0.8
2006-2007	500.00	500.00	-	10.00	500.00	480.89	480.89	-	9.72
2007-2008	1200.00	1200.00	-	24.00	1200.00	1196.37	1196.37	-	24.42
2008-2009	1000.00	1000.00	-	20.00	1000.00	998.27	998.27	-	21.02
2009-2010	1960.00	1960.00	-	42.06	1960.00	1813.85	1813.85	-	43.01
Total	4857.00	4857.00	-	100.00%	4690.00	4525.38 4519.38	4525.38 4519.38		98.97

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Objectives as per PP	Actual achievement	Reasons for shortfall, if any
(a) Main objective of the project is to protect a part of Baguria area in Gaibandha Sadar upazila and area of Syedpur, Chaterkandi, Kanchipara, Kaierhat, Ketkir hat and Balashi Ferri ghat etc in Fulchari upazila by constructing 1.87 km permanent protective work (In between km 63.00 to 66.00) from the erosion of the river Brahmaputra.	Main objective of the project has already been achieved by constructing 1.87 km permanent protective work. By implementing this work, Baguria, Syedpur, Chaterkandi, Kanchipara, Kaierhat, Ketkirhat and Balashi ghat has been saved from the erosion of the river Brahmaputra.	There is no short fall of the project. So, full objective of the project has been achievement.
(b) In addition, the project is to help to accelerate agricultural and industrial development, providing working facilities to the landless people which will increase social and economical development of the area that will also development national socio-Economic condition.	The project work has ensured and protection the agriculture land of the said area from the erosion of the river Brahmaputra. By implementing the Project, sustainability of agriculture development and fisheries development have been ensured. So, the project has already created employment opportunities of landless people which have also improved socio-economics condition of the localities. So, the project has also increased the national socio-economic condition.	There is no short fall.

E. BENEFIT ANALYSIS

01. Annual Out-put: Non-tangible benefited 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).
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02. Cost / Benefit: Non-tangible benefited project.

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

03. Please give reasons for shortfall, if any, between the estimated and actual benefit: Non-tangible benefited project.

F. MONITORING AND AUDITING

0.1 Monitoring:

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations	Action taken
1	2	3	4	5
IMED: 1. Daya Nanda Assistant chief	03.10.2009			
Others: (Please specify)				

0.2. Auditing during and after Implementation:

2.1. Internal Audit:

Period of Audit	Date of submission of Audit Report	Major findings/ Objections	Whether objections resolved or not.
1	2	3	4
2001-2007	28.11.2007	No Major finding/Objection	Resolved

2.2. External Audit:

Audit period	Date of submission of Audit Report	Major findings/ objections	Whether objections resolved or not.
1	2	3	4
2005-2006	31.08.2006	No Major findings	Resolved
2006-2007	28.11.2007	No Major findings	Resolved
2007-2008	15.03.2009	No Major findings	Resolved
2008-2009	15.03.2010	No Major findings	Resolved

G. DESCRIPTIVE REPORT

1. General Observations/Remarks of the Project on:

1.1 Background:

Gaibandha town is an old business centre. The area of the district is 2149 sq km and population is about 21,50,000. The mighty river Brahmaputra is flowing through this district. About hundred year ago Brahmaputra was flowing at 70 km away from Gaibandha town but at present aerial distance of the river is only 3.50 km from the Gaibandha town. The river has been shifted at a distance of 66.50 km towards south western side due to erosion of the river. The river is now flowing by Baguria, Syedpur, Vasharpara, Kanchipara and Balashi railway ferry ghat adjacent to Gaibandha town. In March, 1981 the aerial distance of BRE from Brahmaputra at Syedpur in Kanchipara union was 5.25 km. But from January, 1996, severe erosion of Brahmaputra river started along the right bank of BRE from km 60.00 to 68.00 that is from Baguria of Gidari union of Sadar upazila to Easulpur of Kanchipara union of Fulchari upazila. The distance of BRE of the said area from Brahmaputra stood only 65.00 in October, 2002. The distance of BRE from the river at the said area was only 25m to 50m and aerial distance of the river was only 3.50 km from the Gaibandha town in the year 2005.

The bank shift has been described above but by this time, Syedpur Govt. primary school, Kanchipara Govt. primary school, Baguria school, Tahshil office, Syedpur Bazar, Union parisad office, part of Balashi railway ferry ghat etc and a huge homestead, agriculture land of the said area were gone under the river. 7.50 km BRE and very important installation were under threat of bank erosion of the Brahmaputra. Besides, Gaibandha town was also under threat of the bank erosion of the mighty river.

So, to save the vast area of Baguria, Syedpur, Vasharpara, Kanchipara and Balashighat as well as to save the district headquarter of Gaibandha district, the project was taken under implementation.

1.2 Justification/Adequacy

Due to the erosion of the right bank of Brahmaputra, the river is gradually coming to the district headquarter. About 100 year ago, the river was following 70 km away from the district headquarter but in 2005 the distance of the river from the town was only 3.50 km. The erosion of the river at Baguria, Syedpur, Vasharpara, Kanchipara and Balashi was about 4 (four) metre per day during the year 1981 to 2005. If the rate of erosion of the river was existed the Gaibandha town was engulfed into the river within 3 year to 4 year and a huge devastation was occurred in this district. Due to this devastation, a huge people will be landless and rootless, the country will also suffer from food deficiency by lose huge agriculture land. The save the probable devastation, this project has been taken up. By implementation of the project, a huge areas as well as district headquarter and important installations have been saved from the erosion of the river Brahmaputra.

In view of arresting the river erosion of the said area, 2 (two) PCP was submitted on the basis of approved design. The name of the two PCP was (i) Protection of Gaibandha Zilla Sadar and Baguria, Syedpur of Fulchari upazila from the erosion of the river Brahmaputra (from BRE km 60.50 to 64.50) and (ii) Protection of Kanchipara-Balashi (BRE km 65.00 to 68.00) from the erosion of the river Brahmaputra. The estimated cost of the 2 (two) project were Tk. 8716.47 lac and 9597.78 lac respectively. But due to direction of Board's memo no. UM no. 2522 Mapa dated 03.01.2002, a unified PCP, named "Protection of Gaibandha Zilla Sadar & Baguria, Syedpur, Kanchipara, Balashi ghat, Graveyard area under Fulchari upazila from the erosion of the river Brahmaputra was submitted to the Board, the PCP cost was Tk. 20683.83 lac. But finally a DPP named "Protection of Baguria of Gaibandha Sadar upazila and Syedpur, Kanchipara & Balashighat of Fulchari upazila under Gaibandha district from the erosion of the river Jamuna" at cost of Tk. 5000.00 lac was approved vide memo no. পরি/একনেক-১/৯৭/২০০৫-০৬(৭তম সভা)/২৯ তারিখ. ২২-০১-২০০৬ খ্রিঃ. Due to the implementation of the work under the DPP the said area has been saved from the erosion of the river Brahmaputra.

1.3 Objectives:

The main objective of the project is to protect on part of Baguria of Gaibandha Sadar upazila, Syedpur, Chaterkandi, Kanchipara, Kaiserhat, Ketkirhat, Balashi railway ferry ghat etc of Fulchari upazila by constructing 1.87 km of permanent protective work in between BRE km 63.00 to 66.00 from the erosion of the river Jamuna and accelerating agricultural and industrial development providing working facilities to the landless. The Project will ultimately ensure social economic development of the area which will develop significantly to the National socio-economic condition.

1.4 Project revision with reasons

Does not arise.

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

Bangladesh is 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 inflow at 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 become 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 landless and impoverishment of thousand of dwellers living within bank lines.

In this context, threat of bank erosion has been a growing concern and reassessment of the economic and socio-political benefits of protecting important towns, infrastructure, hats and bazaars as well as agriculture land. The issue has been given due importance in the national planned documents for water sector and prioritized strategic locations of river banks have been stressed for phased implementation of river bank protection programme at the apex level.

In this backdrop, present project thus has been proposed to be executed on emergency basis. The overall objective of the project is to reduce environmental degradations & human hazards due to river erosion with ensuring safety of lives & properties around the area. Throughout the construction of proposed bank revetment works, safety of establishment worth value of Tk. 1929.00 million has been ensured to save from the erosion of the river Brahmaputra.

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

◆ Project Identification

Bangladesh is a riverine country and bank line erosion of different rivers has been a recurrent effect to provide flood control facilities to about 2,34,000 hac of land from the river Teesta & Brahmaputra under Rangpur, Gaibandha, Bogra & Sirajgonj District. So to ensure, flood control of these district Construction of 217.00 Km flood control embankment named Brahmaputra right bank embankment (BRE) from Kaunia of Rangpur district to Hurasagor of Sirajgonj district was constructed during the year 1963-64 to 1967-68 under IDA credit NO 139-PAK. Afterwards, the BRE became under threatening due to bank erosion of different places and BRE was started to be engulfed. Annual erosion of the Brahmaputra/Jamuna is about 0.70 km to 1.50 km and as a result a vast area with very important Govt. and private installations, hat-bazar, bank, homestead agricultural land were engulfed into the river by bank erosion of the river Teesta and Brahmaputra. Due to the erosion, 147 km BRE was gone under river. Some places, retired embankment were constructed in 4 to 5 times. To solve the problems, FAP study report recommended to implement hard point under 1st phase at Jamalpur, Betil, Sirajgonj, Shimla, Kazipur, Chandanbaisha, Mathurapur, Sariakandi, Fulchhari, Kamajani, Haripur, Belka, Sundergonj, Tambulpur and Pinalghat on priority basis. Out of 7 location for permeable Groynes considered in 1st phase of FAP, only 1 (one) location at Baguria of Gaibandha district permeable groyne was constructed but other recommended 6 places were untouched. To implement remaining hard-point, a separate project (PP) named "River Bank Protection Project, phase-II" was approved and went to implement but location for groyenes at Fulchhari and Kamajani were dropped. As a result a vast area with valuable installation was gone under water by bank erosion of the river Brahmaputra during the flood of the year, 2000. Besides the Gaibandha district headquarter which was 70 km way from Brahmaputra river at about 100 year ago came at a distance 3.5 km only in 2004-05. So, the district headquarter was gone under threat of bank erosion of the Brahmaputra. So to protect the Gaibandha town as well as BRE and vast area with important installation of Baguria of Gaibandha Sadar upazila, Syedpur, Chaterkandi, Kanchipara, Kaierhat, Ketkirhat, Balashi of Fulchhari upazila from the erosion of Brahmaputra river, 2 (two) PCP were prepared and submit to the competent authority. But by the direction of Board's memo UM no. 2522 mapa dated 03.10.2002, a unified PCP, named "Protection of Gaibandha Zilla Sadar at Baguria, Syedpur, Kanchipara, Balashighat, Graveyard area of Fulchhari upazila from the erosion of the river Brahmaputra was submitted. But finally a DPP named "Protection of Baguria of Gaibandha Sadar Upazilla & Sayedpur, Kanchipara, Balashighat of Fulchhari Upazilla under Gaibandha District from erosion of the river Jamuna. Protection of Baguria of Gaibandha Sadar Upazilla & Sayedpur, Kanchipara, Balashighat of Fulchhari Upazilla under Gaibandha District from erosion of the river Jamuna" at a cost of Tk. 5000.00 lac has been approved vide memo no. পরি/একনেক-১/৯৭/২০০৫-০৬(৭তম সভা)/২৯ তারিখ ২২-০১-২০০৬ খ্রিঃ।

◆ Project Preparation

To arrest the bank erosion of the river Teesta and Brahmaputra/Jamuna, FAP study recommended to implement hard point at Jamalpur, Betil, Sirajgonj, Shimloa, Kazipur, Chandanbaisha, Matherapur, Sariakandi, Fulchari, Kamalpur, Haripur, Belka, Sundergonj, Tambulpur & Pinalghat under 1st phase on priority basis. Out of 7 location for permeable groyenes provision in 1st phase of FAP study, construction of permeable groyenes at 6 location including Baguria of Gaibandha district were taken up and others recommended places were untouched. To implement more 6 nos. of hard point a separated Project named as "River Bank Protection Project" Phase-II was included in the ADP of 1999-2000 in which Fulchari and Kamarjani was not included. As a result, most of the area of Gidari union of Sadar upazila and Kamajani bazar was gone under river during the flood of 2000. Besides, Gaibandha district headquarter was then 3.50 km distance from the mighty river Brahmaputra. In these situation, to save the vast area of Gaibandha Sadar upazila and Fulchari upazila as well as Gaibandha district town, 2 (two) PCP named (i) Protection of Gaibandha Zilla Sadar and Baguria of Sadar upazila, Syedpur of Fulchari upazila from the erosion of the river Brahmaputra from BRE km 60.50 to 64.50 (ii) Protection of Kanchipara and Baguria from BRE km 65.00 to 68.00 has been prepared and submitted to competent authority, But by the direction of Board's memo no. UM no. 2522-Wapda dated 03.10.2002, a unified PCP named "Protection of Gaibandha Zilla Sadar and Baguria of Sadar upazila, Syedpur, Kanchipara, Balashighat and Graveyard area under Fulchari upazila from the erosion of the river Brahmaputra" at cost by Tk. 20683.83 lac has been submitted. After review, finally, a DPP named "Protection of Baguria of Gaibandha Sadar upazila and Syedpur, Kanchipara and Balashighat of Fulchari upazila under Gaibandha district from the erosion of the river Jamuna" was approved vide planning Division's memo no. পরি/একনেক-১/৯৭/২০০৫-০৬(৭তম সভা)/২৯ তারিখ ২২-০১-২০০৬ খ্রিঃ।

♦ Project Approval.

To arrest the erosion of Brahmaputra river in Gaibandha Sadar upazila and Fulchhari upazila 2 (two) PCPs named (i) "Protection of Gaibandha Zilla Sadar and Baguria of Sadar upazila, Syedpur, Kanchipara, Balashighat and Graveyard area under Fulchhari upazila from the erosion of the river Brahmaputra" and (ii) "Protection of Baguria of Gaibandha Sadar upazila and Syedpur, Kanchipara and Balashighat of Fulchhari upazila under Gaibandha district from the erosion of the river Jamuna" were submitted to the Board in October, 1998. The PCP cost of the 2 (two) project were Tk. 8716.47 lac and Tk. 9597.78 lac respectively. Due to the non-approval of the 2 (two) project, 4 (four) D.O letter were initiated by the then honorable M.P. In reference of these D.O letters Board directed to unify 2 (two) PCP. Accordingly a unified PCP named "Protection of Gaibandha Zilla Sadar and Baguria of Sadar upazila, Syedpur, Kanchipara, Balashighat and Graveyard area under Fulchhari upazila from the erosion of the river Brahmaputra" has been submitted in January, 2003. The PCP cost was 20683.83 lac. After review, finally a DPP named "Protection of Baguria of Gaibandha Sadar upazila and Syedpur, Kanchipara and Balashighat of Fulchhari upazila under Gaibandha district from the erosion of the river Jamuna" was approved vide Planning Division's memo no. পরি/একনেক-১/৯৭/২০০৫-০৬(৭তম সভা)/২৯ dated 22.01.2006.

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.**

Ans : The beneficiaries have acquainted the objectives of the project. The people of the localities have gotten direct benefit by protecting the bank erosion.

- 4.2 Programme for use of created-facilities of the project- N.A**

- 4.3 O & M programme of the project. Ans:** O&M Programme will be started after defect liability period.

- 4.4 Impact of the project -**

4.4.1 Direct- Ans: Bank erosion of the project area has totally been stopped. Due to this phenomenon, sustainable, socio-economic development has been achieved by cultivation of different types of crops, fisheries development and also protection of homestead, hat, bazar, road etc of the project area and also increased employment opportunity.

4.4.2 Indirect- Ans: The people of area have been saved from land less i.e. rootless and government will earned taxes.

- 4.5 Transfer of Technology and Institutional Building through the project- N.A**

- 4.6 Employment generation through the project. -** Increase employment generation by save the land, hat, bazar etc. from bank erosion.

- 4.7 Possibility of Self employment -** Self employment has been ensured by save of self land.

- 4.8 Possibility of women-employment opportunity - Yes**

- 4.9 Women's participation in development - Yes**

- 4.10 Probable Impact on Socio-Economic activity. Ans:** Socio-Economic development has been increased.

- 4.11 Impact on environment -**Environment have been ensured by save of the locality.

- 4.12 Sustainability of the project-** The Project has substantially sustained by completion of the revetment work as because the river bank down stream of the project area is being eroded. A DPP has been initiated for protection of the bank erosion out side of the project. The DPP will immediately submitted to the competent authority.

- 4.13 Contribution to poverty alleviation/reduction -** The Project has helped to deduct poverty alleviation.

- 4.14 Opinion of the public representatives, local elite, local administration, teachers, religious leaders, women's representatives etc. -** Opinions are positive.

- 4.15 Contribution of Micro-credit programmes and Comments on overlapping with any NGO activities. N.A**

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

- | | |
|---|---|
| 5.1 Project Management- helped to instant solve the problem | 5.12 Project aid disbursement and reimbursement – N.A |
| 5.2 Project Director – do - | 5.13 Mission of the development partners- N.A |
| 5.3 Land Acquisition – N.A | 5.14 Time & Cost Over-run- Problem arises and solved. |
| 5.4 Procurement- Partially achieved | 5.15 Project Supervision/Inspection- O.K |
| 5.5 Consultancy- N.A | 5.16 Delay in Decision- arises. |
| 5.6 Contractor- helps to solve instant problems | 5.17 Transport - Problem arises. |
| 5.7 Manpower- do - | 5.18 Training- N.A |
| 5.8 law & Order- O.K | 5.19 Approval- taken time but solved. |
| 5.9 Natural calamity- arises. | 5.20 Others. |
| 5.10 Project financing, allocation and release. – Not timely. | |
| 5.11 Design formulation/approval- O.K | |

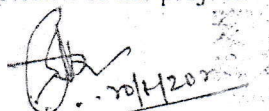
5.9 Natural calamity: Does not arise during the spare of the Project implementation.

5.17 Transport: 5.00 Km partial kacha road (from Gaibandha town to Syedpurghat) was only the feeder road for transportation. The road is now Pucca. During the construction (convert to metallic road) of the road, the progress of project was severely hampered.

6. Remarks & Recommendations of the Project Director:

The Project was commenced on FY 2005-2006 and scheduled to complete on FY 2006-2007. Due to fund allocation constraint, it is not possible to complete the Project in time.

The main component of the DPP was river bank protective work. The length of river bank protection was provided 1.872 km and the cost of DPP was Tk. 5000.00 lac. Out of 1.872 km river bank protection work in DPP, 1.863 has been completed within the DPP cost. The project cost has been incurred Tk. 4519.38 lac. Due to the completion of the work Baguria, Syedpur, Vasharpara, Kanchipara and Balashighat has been saved from the erosion of the river Brahmaputra. So, I think the objective of the Project has fully been achieved and ensured the sustainable socio-economic development, agriculture and fisheries development. In these regards, undersigned has recommended to declare successfully completion of the project.



(Mir Mosharraf Hossain)
Executive Engineer,
Gaibandha O&M Division,

Date : ...BWDB, Gaibandha.....



(KAZI ABU BAKER SIDDIQUE)
Superintending Engineer
Bangpur O & M Circle-1
BWDB, Bangpur.
Project Director

Signature and seal of the Project Director/Manager

7. Remarks/Comments of Agency Head

Date :

Signature and Seal

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

Date:

Signature and Seal