

BANGLADESH WATER DEVELOPMENT BOARD



PROJECT COMPLETION REPORT: IMED-04

Name of the project: Protection of Chowhali Upazila of Sirajgonj district from the erosion of the River Jamuna

Project Period : April 2010 to June 2012

Name of Division : Tangail O&M Division
Name of Circle : Mymensingh O&M Circle
Name of Zone : Central zone, BWDB, Dhaka.

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:

1. Name of the project:
Protection of Chowhali Upazila of Sirajgonj district from the erosion of the River Jamuna
2. Administrative Ministry/Division : Ministry of Water Resources
3. Executive Agency : Bangladesh Water Development Board
4. Location of the Project : Chowhali upzila of Sirajgonj district
5. Objective of the Project:
 - ✓ To ensure protective measures against the erosion of the Jamuna river for protection of Chowhali upazila;
 - ✓ To mitigate sufferings of the people and reduce poverty ;
 - ✓ To minimize infrastructural and economic losses ;
 - ✓ To provide safety and security, risk of life & wealth.
6. Estimated Cost:

	(In lakh Taka)	
	Original	Latest Revised
(a) Total	3605.66	-
(b) Taka	3605.66	-
(c) Foreign Currency	-	-
(d) Project Aid	-	-
(e) RPA	-	-

7. Date of Approval

	PCP	DPP
(a) Original	-	13 April 2010
(b) Latest Revised	-	-

8. Implementation Period

	Date of Commencement	Date of Completion
(a) Original	April 2010	June 2011
(b) Latest Revised	April 2010	June 2012
(c) Actual	April 2010	June 2012

9. Financing Arrangement (Source-wise):

9.1 Status of Loan/Grant

a) Foreign Financing :

Not Applicable

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

b) GOB:

(In lakh Taka)

Total amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
3290.50	-	3290.50	

9.2 Utilization of Project Aid: (Source wise)

Not Applicable

(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

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

B. IMPLEMENTATION POSITION

1. 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
13 April 2010-30 June 2011	13 April 2010-30 June 2012	13 April 2010-30 June 2012	82.21%	-

2. 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	3605.66	-	3290.50	8.74% less	Project Completed
TAKA	3605.66	-	3290.50	8.74% less	
PA	-	-	-	-	

3. 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	6	7
Officer (s)-8	9	9	9	-	9	-
Staff (s) -15	15	15	15	-	14	1
Total : 22	23	23	23	-	22	1

4. Training of Project Personnel (Foreign/Local): **Not Applicable**

Field of Training /Studytour/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
b. Local

5. 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
Economic Code	Items description						
Revenue Component							
4827	Preparation of tender documents and maps-1 item	-	1.00	1 item	1.00	1 item	-
4828	Office stationeries-1 item	-	0.50	1 item	0.50	1 item	-
4833	Advertisement – 1 tem	-	0.50	1 item	0.00	1 item	
Capital Component							
6814	Engineering Instruement (leveling Machine)-1 No	No.	0.75	1 No.	0.75	1 No.	-
6814	Geographic Positioning System (GPS-2 Nos.)	No.	0.40	2 Nos.	0.40	2 Nos.	-
6815	Computer equipments including printer, laptop, UPS, Fax & Internet modem-1 set	Set	1.25	1 set	1.25	1 set	-
6819	Plain paper Photocopy Machine-1 No.	No.	1.20	1 No.	1.20	1 No.	-
6821	Office furniture-1 item	-	0.20	1 item	0.20	1 item	-
6807	Motor cycle (100cc-1No.)	No.	1.50	1 No.	1.50	1 No.	-
Construction works							
7081	Bank protective works- (1715 m)	m	3542.66	1715 m	3263.77	1715 m	(-)278.89*
7081	O & M during construction (1 item)	-	20.00	1 item	19.93	1 item	(-)0.07*
	Price Contegency	-	35.70	-	0.00	-	
Total =			3605.66	-	3290.50	-	-

*Expenditure incurred as per actual work done

6. 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
K.M. Nazmul Haque	√	-	Yes	29.06.10	25.09.11	-
Md. Rafiqul Islam	√	-	Yes	25.09.11	30.06.12	-

7. 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
Motor Cycle	1 No.	10 June'10	30 June'10	30 June'10	N/A	In use

8. Procurement of Goods, Works and Consultancy Services:

8.1 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
Goods						
Supply of Geo-Bag						
Lot No. BRC-01	5.03	3.65	15.04.10	29.06.10	10.06.11	28.05.11
250 kg = 98500 Nos.						
175 kg = 94800 Nos.						
Lot No. BRC-02	5.03	3.19	15.04.10	29.06.10	10.06.11	25.05.11
250 kg = 95491 Nos.						
175 kg = 90500 Nos.						
Lot No. BRC-03	5.03	1.11	15.04.10	29.06.10	10.06.11	05.06.11
250 kg = 37700 Nos.						
175 kg = 35432 Nos.						
Dumping of Geo-Bag						
Lot No. BRC-04	5.00	2.35	04.09.11	28.06.10	30.06.11	17.06.11
250 kg=231691 Nos.						
175 kg=220732 Nos.						
Works						
Bank protective works with CC Blocks						
Lot No. BRC-05: Ch. km. 0.785 to km. 1.230 with km. 0.140 up-stream end termination = km. 0.585	5.04	3.40	15.04.10	29.06.10	30.06.12	30.06.12
Lot No. BRC-06: Ch. km. 1.230 to km. 1.953 = km. 0.723	5.12	5.17	15.04.10	29.06.10	30.06.12	30.06.12
Lot No. BRC-07: Ch. km. 1.853 to km. 2.285 with km. 0.075 down-stream end termination = km. 0.403	5.16	5.62	15.04.10	29.06.10	30.06.12	28.06.12

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

Not Applicable

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 :

b) Local :

9. Construction/Erection/Installation Tools & Equipment:

Not Applicable

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

C. FINANCIAL AND PHYSICAL PROGRAMME:

1. (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
2009-2010	996.30	996.30	-	27.632%	-	-	-	-
2010-2011	2609.36	2609.36	-	72.368%	-	-	-	-
2011-2012	-	-	-	-	-	-	-	-

1. (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
2009-2010	100.00	100.00	-	2.77%	100.00	100.00	100.00	-	2.77%
2010-2011	899.50	899.50	-	53.23%	899.50	899.50	899.50	-	53.23%
2011-2012	2291.00	2291.00	-	44.00%	2291.00	2291.00	2291.00	-	44.00%

ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Sl No.	Objectives as per PP	Actual achievement	Reasons for shortfall, if any
1	2	3	4
(a)	To ensure protective measures against the erosion of the Jamuna river for protection of Chowhali upazila;	The river bank protection works executed under said project to protect the Chowhali upzila from severe erosion of the River Jamuna and now the upzila complex is mostly free from risk caused by erosion of the Jamuna river.	N/A
(b)	To mitigate sufferings of the people and reduce poverty ;	The river bank protection works executed in the project areas has ensured the employment opportunities in the project works and also created more scope in the other income generating activities, which ultimately reduced the poverty of stakeholders and peoples are living under self solvency.	N/A
(c)	To minimize infrastructural and economic losses ;	The river bank protection works executed in the project areas has ensured the persistence of infrastructures and improved the economic conditions of the stakeholders	N/A
(d)	To provide safety and security, risk of life & wealth.	The life, wealth and properties of people oriented with project area is highle secured due to execute the project activities	N/A

E. BENEFIT ANALYSIS

1. Annual Out-put:

(In lakh Taka)

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).
1	2	3	4
The river bank protection project namely Protection of Chowhali Upazila of Sirajgonj district from the erosion of the River Jamuna was designed to execute the river bank protection works in a legth Ch. km. 0.785 to km. 2.285 with km. 0.140 up-stream & 0.075 down-stream end termination = km. 1.715	-	The river bank protection works was designed for the legth Ch. km. 0.785 to km. 2.285 with km. 0.140 up-stream & 0.075 down-stream end termination = km. 1.715	The river bank protection works was executed in a legth Ch. km. 0.785 to km. 2.285 with km. 0.140 up-stream & 0.075 down-stream end termination = km. 1.715

2. Cost / Benefit:

Item	Estimated	Actual
1	2	3
(1) Benefit cost ratio of the project		Post Evaluation or assessment yet to be done
(i) Financial	1.66:1.00	
(ii) Economic	2.15:1.00	
(2) Internal Rate of Return		
(i) Financial	22.94%	
(ii) Economic	29.94%	

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

F. MONITORING AND AUDITING

1. Monitoring:

(a) Ministry / Agency:

Not Applicable

(b) IMED :

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
Mr. Khairul Anam Deputy Director Agriculture, Rural Development & Research Sector IMED, Ministry of Planning Sher-E Bangla Nagar, Dhaka	27.04.2011	Inadequate budget allocation during 2009-10 & 2010-11	Allocation of fund as per DPP provision

(c) Others: (Please specify)

Not Applicable

2. Auditing during and after Implementation:

Not Applicable

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

2.1. External Audit (Audit conducted by AG):

Period of Audit	Date of submission of Audit Report	Major findings/ objections	Whether objections Resolved or not.
1	2	3	4
2010-11	18.04.2011	Geo-bag procured in different rate in 3 no. of lots under same tender and paid the 3 rd R/A bill which estimated the losses of BWDB amounting TK. 44,14,413.00.	Audit reply has been sent to the competent authority and resolvable of objection is under processing
		Geo-bag dumping without presence/permission of BWDB's Task Force/Ministrial committee's representative and paid the R/A bill to contractors which estimated the losses of Govt's amounting TK. 1,95,57,552.	Audit reply has been sent to the competent authority and resolvable of objection is under processing

G. DESCRIPTIVE REPORT

1. General Observations/Remarks of the Project on:

1.1 Background

The Project area is located in Chowhali Upazila of Sirajgonj District. The Chowhali Upazila is sub-divided by Jamuna river. Khashkawalia, Khash Pukuria, Baghutia, Ghorjan and Umarpur union of Chowhali Upazila is situated at east side of Jamuna river. Geographically these five unions is connected with Tangail District. So the hydro-morphological behavior of the area is same as that of Tangail District. Though the area is a part of Sirajgonj District on the administrative point, it decided by the Board that the development work of that area under Bangladesh Water Development Board will be implemented by Tangail O & M Division due to its geographical condition and convenient of project supervision. The gross area of the project is about 4000 ha. The topography of the northern part of the project is different from the southern part. The northwest and northeast part is high land with slope towards south and southeast. However, land elevation at eastern part is high along the river, which makes low elevation in the central and southern part of the project area. The average land elevation of the north and northwest part varies from 10.50 to 8.50 meters. The central and southern part is relatively low with elevation from 8.0 to 7.0 meters. The soils of the project area is mainly occupied by (a) the active Jamuna flood plain (comprising 54% project area) and (b) the young Jamuna meander floodplain (comprising 46% project area) sub-units of the Jamuna flood plain physiographic unit. Chowhali Upazila is very sensitive severe erosion prone area. The whole boundary of upazila on the western side is parallel to the Jamuna River. So the erosion of Jamuna River at this area is a natural phenomenon. During the last five years about five km of land has been engulfed into the mighty Jamuna River. Due to the erosion about 45% land of Khashkawalia union, 80% land of Ghorjan union has been lost. Every year erosion starts with the rise of water level at the beginning of the monsoon and it continues as the water rises in the river. Due to the severe erosion cultivatable fertile lands, public houses, ponds, mosque, union health complex, Girl's high school, live stock building, Halipad, NGO offices and a portion of the Upazila sadar bazar has been engulfed into Jamuna River. Due to worse condition of the river erosion auction is under process for dismantling of post office, T & T, social welfare office and the residence of Upazila Nirbahi Officer. Every year the river Jamuna causing regular damages by river bank erosion to this area bringing enormous suffering for people of the locality. The following are the present vulnerabilities of the project area:

- Bank erosion damage homestead, culture fisheries resources, trees etc.
- Bank erosion damage rural infrastructures i.e. road, bridge, culvert etc. and immovable properties
- Bank erosion damage rural facilities i.e. electricity, phone line
- Bank erosion damage rural industries
- Due to bank erosion sand carpeting on crop lands in both river systems causes low productivity.

Always there is a frustration and fear of river erosion to the nearby people. So there is a huge demand of the local people, Government and Non-Government employees, political leaders and elite personnel for taking protective measures against erosion. On the demand of the people of all level, the Honorable Minister for Water Resources along with Honourable Minister for Fisheries and Livestock visited the erosion prone area near Chowhali Upazila complex on 06-02-2009. At that time Additional Director General, (O&M -1), BWDB, Chief Engineer, Central Zone, BWDB, Superintending Engineer, Mymensingh O&M Circle and Superintending Engineer, Design Circle-1 and other Officials of Tangail

O&M Division, BWDB were present. Honorable Minister for Fisheries and Livestock and the Member of the Parliament of constituency Sirajgonj-5 requested the Honorable Minister for Water Resources for his kind initiative to make arrangement for budget allocation for the project. On the basis of the request Honorable Minister for Water Resources directed the officials of BWDB to take necessary steps for providing immediate measures for protection of Chowhali Upazila Complex.

1.2 Justification/Adequacy

A feasibility study has been done by Institute of Water Modeling (IWM) for the Project of “Construction of Flood Control Embankment and River Bank Protection on the left bank of Jamuna and the right bank of Dhaleswai at Nagorpur and Chowhali”. There is a provision of 1500 m bank protective work of Chowhali Upazila complex of Sirajgonj District. As per the recommendation and according to the current Standard schedule of rates the cost of bank protective work was formulated. Besides considering the urgency, necessity and Direction of the Honourable Minister of Water Resources a separate DPP was prepared only for protective work. The cost of the protective work has been in RDPP deducted from the original project cost where necessary.

1.3 Objectives

The main objective of the project is to provide bank protective measures against river erosion along the left bank of Jamuna river near Chowhali Upazila of Sirajgonj District. The project is to enhance safety and security against river erosion of the project area. The proposed project interventions will be sustainable to provide best possible outcomes to:

- ✓ To ensure protective measures against the erosion of the Jamuna river for protection of Chowhali upazila;
- ✓ To mitigate sufferings of the people and reduce poverty ;
- ✓ To minimize infrastructural and economic losses ;
- ✓ To provide safety and security, risk of life & wealth.

1.4 Project revision with reasons

The project was revised with the fulfillment the following circumstances:

- ✓ Revised design due to bank line shifting during floods occurring in 2010.
- ✓ Increasing amount in Geo-bags due to revised design.
- ✓ Revised amount in CC blocks due to revised design; lack of working facilities after offering the work order because of presence of flood water and rainy season in working sites as well as shortage of land for storing the stock pile blocks.
- ✓ Invention of some nontender items (carried earth, synthetic bags etc.) and
- ✓ Arisen the necessities for emergency declaration during the flood seasons of 2012.

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

Bangladesh is a riverine country and flooding of different rivers has been a recurrent effect. Recurrent floods, drainage congestion etc. 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 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 landlessness and impoverishment of thousands of dwellers living within bank lines. 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. Recent Satellite Image Studies of the Ganges-Brahmaputra-Middle Meghna rivers show that 106,300 ha. of land were lost to erosion, while only 19,300 ha. were accreted over the period 1982-1992. The net area of 87,000 ha. lost to erosion is equivalent to an annual erosion rate of 8,700 ha. So, there have been a growing concern and reassessment of the economic and socio-political benefits of protecting important towns, infrastructure, hats and bazars as well as agricultural 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. Bangladesh has a long history of combating riverbank erosion. People living and housing alongside the river try to protect the banks against erosion from time immemorial. Diverse methods of bank protection have been developed in the past with considerable regional differences. After the disastrous flood in 1988, the Flood Action Plan initiated a number of studies to come up with sustainable and long-term solutions for comprehensive flood protection in Bangladesh. In this backdrop, present project thus proposed to be executed on emergency basis. The overall objective of the project is to reduce environmental degradations & human hazards due to flooding and drainage hazards with ensuring safety of lives & properties around the area. The proposed project is cost-effective and environment friendly. The project is expected to contribute substantially towards attainment of Millennium Development Goal (MDG) through increase physical production, ensuring quality of life & living and reduction of poverty level in the project area as per goal set forth in the PRS of GoB and thus deserves for early implementation.

Linkages:

The very nature and objectives of this Project have direct relevance with the national objectives of attaining self-reliance in food grain production, generation of rural employment, poverty alleviation especially for rural poorer section, creation of social & environmental balance and building economic infrastructures for the future generations to sustain. Now, National Water policy (NWP-1999) is the basic guide for sustainable development of water resources projects. The policy indicates priorities for different multi-sectoral needs to be ensured in planning & development of water management projects. It also stressed the need for boosting-up agricultural production through execution of FCDI projects. Accordingly, National Water Management Plan (NWMP) has been prepared indicating portfolio of projects. As for its relevance with the water-sectoral objectives, the project is in line with the policy and macro-level plan objectives of GOB for poverty reduction.

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

◆ Project Identification:

The Project area is located in Chowhali Upazila of Sirajgonj District. The Chowhali Upazila is subdivided by Jamuna river. Every year the river Jamuna causing regular damages by river bank erosion to this area bringing enormous suffering for people of the locality. During the last five years about five km of land has been engulfed into the mighty Jamuna River. Always there is a frustration and fear of river erosion to the nearby people. So there is a huge demand of the local people, Government and Non-Government employees, political leaders and elite personnel for taking protective measures against erosion. On the demand of the people of all level, the Honorable Minister for Water Resources along with Honourable Minister for Fisheries and Livestock visited the erosion prone area near Chowhali Upazila complex on 06-02-2009 and requested the Honorable Minister for Water Resources for his kind initiative to make arrangement for budget allocation and the said project was identified.

◆ Project Preparation:

On the basis of the of local people necessities and requested of Honourable Minister for Fisheries, the Honorable Minister for Water Resources directed the officials of BWDB to take necessary steps for providing immediate measures and submitted a DPP for execution the river bank protection works for protection of Chowhali Upazila Complex.

◆ Appraisal:

The bank protection works for said project was designed to save the Chowhali Upazila Complex and other properties estimated the costing Taka above 32.00 cror based on the recommendations of ECNEC meeting, approved design of BWDB and standard schedules of rates for different elements in Mymensingh O& M Circle, BWDB, Mymensingh.

◆ Credit Negotiation: **Not Applicable**

◆ Credit Agreement: **Not Applicable**

◆ Credit Effectiveness: **Not Applicable**

◆ Loan Disbursement: **Not Applicable**

◆ Loan Conditionalities: **Not Applicable**

◆ Project Approval:

The project namely "Protection of Chowhali Upazila of Sirajgonj district from the erosion of the River Jamuna" was sanctioned by ECNEC meeting held 13 April 2010 presided over the Sheikh Hasina, Honorable Prime Minister, Govt. of the People's Republic of Bangladesh and Chairman, ECNEC.

◆ Others (if any): **Not Applicable**

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:

Not Applicable

4.3 O & M programme of the project:

In the original DPP there was a provision for O& M costing amounting Tk. 20.00 lac, from where Tk. 19.93 is already used for conducting a ditch filling in the project area.

4.4 Impact of the project -

4.4.1 Direct: Protection of Chowhali upzila complex.

4.4.2 Indirect: To save the life, wealth and properties of Govt. and local peoples.

4.5 Transfer of Technology and Institutional Building through the project:

Not Applicable

4.6 Employment generation through the project:

The river bank protection works executed in the project areas has ensured the employment opportunities in the project works and also created more scope in the other income generating activities, which ultimately reduced the poverty of stakeholders and peoples are living under self solvency.

4.7 Possibility of Self employment:

The river bank protection works executed in the project areas has ensured the employment opportunities in the project works and also created more scope in the other income generating activities, which ultimately reduced the poverty of stakeholders and peoples are living under self solvency.

4.8 Possibility of women-employment opportunity:

There is also the possibility of women-employment opportunity due to engagement in the O&M activities. Women are most vulnerable to any types of disaster. Post project condition will improve river erosion hazards. Thus, ultimately it will create safe and healthy environment for women. Also, employment opportunities for women will be enhanced at both the construction and operation & maintenance phases of the project.

4.9 Women's participation in development.

Women participation in the minor O&M activities and earth works is highly appreciated.

4.10 Probable Impact on Socio-Economic activity:

The project will be bearing the significant positive socio-economic impacts due to safe living and continuing the life span with engagement of income generating activities because of protection the project area against devastating river erosion.

4.11 Impact on environment.

The project will have no adverse effect on environment, besides it will be also adjusted to natural and environmental balance against devastating river erosion. Thus the overall environmental balance in the region will be restored.

4.12 Sustainability of the project.

The project will be closely monitored by BWDB officials and staffs for existing the bank protections works. In additions some minor damages on bank protection works will be immediately repaired from O&M budget allocations.

4.13 Contribution to poverty alleviation/reduction

Most people of the project area are of lower income group. As such poverty is the part and parcel of their day to day lives. By the implementation of this project, employment in business sector will be created due to improvement of socio-economic condition, micro-financing activities. Project activities will also create employment opportunities and these will ultimately contribute to the achievement in poverty alleviation.

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

At post project condition, due to reduction of erosion and flood hazard, investment will be encouraged and productivity in all spheres will ultimately be increased. Also financial security will be achieved and out of that institutional development like growth centers, educational institutions, health and family planning centers and many more will definitely be established. The project will also save the existing establishment of the project area. This will not create any regional disparity. Hence the public representatives, local elite, local administration, teachers, religious leaders, women's representatives etc are highly satisfied with the project activities.

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

The project will have no adverse overlapping with any NGO activities and out of of Micro-credit programmes.

5. Problems encountered during Implementation (with duration & steps taken to remove those)
- 5.1 Project Management:
There was no encountered from project management part during implementation the project activities.
- 5.2 Project Director:
There was no encountered from project director part during implementation the project activities.
- 5.3 Land Acquisition:
There was no provision for land acquisition during implementation the project activities.
- 5.4 Procurement:
There was no procurement faults during implementation the project activities.
- 5.5 Consultancy:
There was no provision for consultancy during implementation the project activities.
- 5.6 Contractor:
There was no major fault from contractor part during implementation the project activities. Of course, one contractor are failure to manufacture the CC block in times, hence deducting the CC blocks from his tendering quantity, a mount of geo-bags were procured and some amount of CC blocks were also manufactured by another contractor's.
- 5.7 Manpower:
There was no manpower shortage from BWDB office's during implementation the project activities.
- 5.8 law & Order:
There was no encountered in respect of law & order during implementation the project activities.
- 5.9 Natural calamity:
There was the severe natural calamities i.e. severe erosion was occurred during executing the works in the 1st year (2010), when 1,35,357 nos. of Geo-bags dumping were done under direct supervision of ministerial committee as well as BWDB's Task Force to prevent the river bank erosion within the short period.
- 5.10 Project financing, allocation and Release:
There project financing cost was very minimum as compared to other bank protection works executed in the left bank of same river (Jamuna River) in the same district. The financial allocations were also unsatisfactory. The project was sanctioned for two financial years (2009-10 & 2010-11), but only 2.77% and 24.96% fund was allocated for 2009-10 & 2010-11, respectively, hence time extension was undertaken without increasing the DPP cost for execution the bank protective works. The fund release in different installment was not also in time.
- 5.11 Design formulation/approval:
There was no encountered in respect of design approval and formulation during implementation the project activities.

- 5.12 Project aid disbursement and re-imbursement:
There was no provision for aid disbursement and re-imbursement during implementation the project activities.
- 5.13 Mission of the development partners:
There was no provision for Mission of the development partners during implementation the project activities.
- 5.14 Time & Cost Over-run:
It is better to complete the bank protection works within the one year, but the project was sanctioned for executing the works preliminary within 2 years, but actually it was completed in 3 years due to problem faced by fund release during the year 2009-10 & 2010-11. Hence time extension for next 1 year was undertaken from the competent approval authority.
- 5.15 Project Supervision/Inspection:
There was no encountered from project supervision/inspection part during implementation the project activities.
- 5.16 Delay in Decision:
There was no encountered in respect of decision from competent authority during implementation the project activities.
- 5.17 Transport:
There was no encountered in respect of transport procurement (Procurement of Motor cycle-125 cc) during implementation the project activities.
- 5.18 Training:
There was no provision for training during implementation the project activities.
- 5.19 Approval:
There was no encountered in respect of approval during implementation the project activities. Therefore the project namely "Protection of Chowhali Upazila of Sirajgonj district from the erosion of the River Jamuna" was sanctioned by ECNEC meeting held 13 April 2010 presided over the Sheikh Hasina, Honorable Prime Minister, Govt. of the People's Republic of Bangladesh and Chairman, ECNEC. In that Meeting the Honorable Prime Minister asked, why the project was taken in hand in later?
- 5.20 Others. **Not Applicable**

6. Remarks & Recommendations of the Project Director:

Date:

Signature and seal of the Project Director/Manager

তত্ত্বাবধায়ক প্রকৌশলী
ময়মনসিংহ পত্র সার্কেল, পাউবো
ময়মনসিংহ

7. Remarks/Comments of Agency Head

Date:

Signature and Seal
K.A.M. Shahiduzzaman,
Director General
BWDB, Dhaka.

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

Date:

Signature and Seal