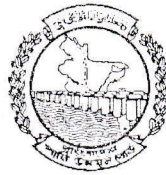


BANGLADESH WATER DEVELOPMENT BOARD



Project Completion Report of

Bhola District Town Protection Project (Phase-II)

Zone : Southern Zone, BWDB, Barisal.

Circle : Bhola O & M Circle, BWDB, Barisal.

Division : Bhola O & M Division-I, BWDB, Bhola.

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

PROJECT COMPLETION REPORT : IMED-04/2001 (REVISED)

A. PROJECT DESCRIPTION :

01. **Name of the Project** : Bhola District Town Protection Project (Phase-II).
02. **Administrative Ministry/Division** : Ministry of Water Resources.
03. **Executing Agency** : Bangladesh Water Development Board.
04. **Location of the Project** : (a) Upazila-Bhola Sadar
(b) District-Bhola.
05. **Objective of the Project** : The main object of the Project is to protect the immovable public and private properties of Bhola Sadar Upazilla from the erosion of the Meghna river.
06. **Estimated Cost** :

(In Lakh Taka)

	Original	Latest Revised
(1)	(2)	(3)
a) Total	2463.70	2453.05
b) Taka	2463.70	2453.05
c) Foreign Currency	-	-
d) Project Aid	-	-
e) RPA	-	-

07. **Date of approval** :
- a) Original : 22-10-2006
- b) Latest Revised : 03-03-2010

PCP	DPP
-	√

08. **Implementation Period** :

	Date of Commencement	Date Completion
(1)	(2)	(3)
a) Original	2006-2007	2007-2008
b) Latest Revised	2006-2007	2009-2010
c) Actual	2007-2008	2009-2010

09. **Financing Arrangement (Source-wise) :**9.1 **Status of Financing :**a) **Foreign Financing :**

Sources	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)	(7)
Does not arise.							

b) **GOB :**

(In Lakh Taka)

Total Amount	Loan	Grant	Cash Foreign Exchange
(1)	(2)	(3)	(4)
2453.05	-	-	-

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

(In million)

Sources	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 **Reimbursable Project Aid (RPA) :**

(In Lakh Taka)

RPA Amount		Amount Spent	Amount Claimed	Amount Reimbursed	Remarks
As per DPP	As per Agreement				
(1)	(2)	(3)	(4)	(5)	(6)
Does not arise.					

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

Implementation Period as per DPP		Actual Implementation	Time over run (% of Original Implementation Period)	Remarks
Original	Latest Revised			
(1)	(2)	(3)	(4)	(5)
2006-2007 to 2007-2008	2007-2008 to 2009-2010	2007-2008 to 2009-2010	2 years (100%)	

02. Cost of the Project :

Description	Estimated Cost		Actual Expenditure	Cost over-run (% of Original Cost)	Remarks
	Original	Latest Revised			
(1)	(2)	(3)	(4)	(5)	(6)
Total	2463.70	2453.05	2280.84	-	
Taka	2463.70	2453.05	2280.84	-	
PA	-	-	-	-	

03. Project Personnel :

Sanctioned Strength as per DPP	Man Power Employed during execution	Status of the Existing Man Power			Man Power Employed	
		Man Power Requirement for O & M as per DPP	Existing Man Power for O & M	Others	Male	Female
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Officer (s)	-	7	7	-	-	-
Staff (s)	-	17	17	-	-	-
Total	-	24	24	-	-	-

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

Field of Training/Study Tour/ Workshop/Seminar etc.	Prevision as per DPP		Actual		Remarks
	Man Power of person	Man month	Number of person	Man month	
(1)	(2)	(3)	(4)	(5)	(6)
a) Foreign	Nil	=	Nil	-	
b) Local	Nil	=	Nil	-	

05. **Component-wise Progress (As per latest approved DPP) :**

Sl. No.	Items of work (As per DPP)	Unit	Target (As per PP)		Actual Progress		Reasons for deviation (+)
			Financial	Physical (Quantity)	Financial	Physical (Quantity)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
01.	Survey and Investigation (L. S)	L. S.	2.00	1 Item	1.99	99.50%	
02.	Petrol and Lubricant	L. S.	3.00	1 Item	3.00	100%	
03.	Stationary and Tender Document	L. S.	2.00	1 Item	1.91	95.50%	
04.	Bank Protection Work by C. C. Blocks (1.300 km)	Km	2204.43	100%	2083.69	100%	
05.	Slope Protection Work of Embankment (1.300 km)	Km	241.62	100%	190.25	100%	
Total =			2453.05	-	2280.84	99.94%	

06. **Information regarding Project Director (s) :**

Sl. No.	Name & Designation with pay scale	Full Time	Part Time	Responsibility	Date of		Remarks
					Joining	Transfer	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
01.	Mr. Abdur Rob Miah Executive Engineer	Full	-	Monitoring	05-01-05	11-11-07	-
02.	Mr. Aftab Uddin Ahmed Executive Engineer	Full	-	Monitoring	12-11-07	26-05-10	-
03.	Mr. Nurul Islam Sarkder Executive Engineer	Full	-	Monitoring	27-05-10	06-06-10	-
04.	Mr. Md. Mahfuzur Rahman Executive Engineer	Full	-	Monitoring	07-06-10	-	-

07. **Procurement of Transport (If Nos.) :**

Type of Transport	Number as per DPP	Procured with date	Transferred to Transport Pool with date	Transferred to O & M with date	Condemned/ damaged with date	Remarks
(1)	(2)	(3)	(4)	(5)	(6)	(7)
			Does not arise			

08. **Procurement of Goods, Works and Consultancy Services :**8.1 **Goods & Works of the Project costing above Tk. 100.00 lakh and Consultancy above Tk. 50.00 lakh**

Description Procurement (Goods/works/ Consultancy) as per Bid document	Tender/Bid Proposal Cost		Tender/Bid Proposal Cost		Date of Completion of works/ services and supply of goods	
	As per DPP	Contracted	Invitation date	Contract Signing/LC opening date	As per Contract	Actual
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Manufacturing, Supplying and Placing of C. C. Block (1:3:6) for River Bank Protection from km 12.200 to km 12.500 = 0.300 km at Bhola Sadar Upazilla in connection with "Bhola District Town Protection Project (Phase-II)" under Bhola O&M Division-I, BWDB, Bhola during the year 2007-2008 (Package No. W1RBP).	695.00	382.82	08-10-07	17-01-08	15-05-08	15-05-08
Manufacturing, Supplying and Placing of C. C. Block (1:3:6) for River Bank Protection from km 12.500 to km 12.800 = 0.300 km at Bhola Sadar Upazilla in connection with "Bhola District Town Protection Project (Phase-II)" under Bhola O&M Division-I, BWDB, Bhola during the year 2007-2008 (Package No. W2RBP).		420.98	08-10-07	17-01-08	15-05-08	15-05-08
Manufacturing, Supplying and Placing of C. C. Block (1:3:6) for River Bank Protection from km 12.800 to km 12.980 = 0.180 km at Bhola Sadar Upazilla in connection with "Bhola District Town Protection Project (Phase-II)" under Bhola O&M Division-I, BWDB, Bhola during the year 2007-2008 (Package No. W3RBP).	598.00	298.64	31-12-08	11-03-09	29-09-09	29-09-09
Manufacturing, Supplying and Placing of C. C. Block (1:3:6) for River Bank Protection from km 12.980 to km 13.160 = 0.180 km at Bhola Sadar Upazilla in connection with "Bhola District Town Protection Project (Phase-II)" under Bhola O&M Division-I, BWDB, Bhola during the year 2007-2008 (Package No. W4RBP).		298.64	31-12-08	11-03-09	29-09-09	29-09-09
Manufacturing, Supplying and Placing of C. C. Block (1:3:6) for River Bank Protection from km 13.160 to km 13.330 = 0.170 km at Bhola Sadar Upazilla in connection with "Bhola District Town Protection Project (Phase-II)" under Bhola O&M Division-I, BWDB, Bhola during the year 2007-2008 (Package No. W5RBP).	1153.05	342.48	27-08-09	18-02-10	29-06-10	29-06-10
Manufacturing, Supplying and Placing of C. C. Block (1:3:6) for River Bank Protection from km 13.330 to km 13.500 = 0.170 km at Bhola Sadar Upazilla in connection with "Bhola District Town Protection Project (Phase-II)" under Bhola O&M Division-I, BWDB, Bhola during the year 2007-2008 (Package No. W6RBP).		342.48	27-08-09	18-02-10	29-06-10	29-06-10

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

Name of Field	Approved man month		Actual man month utilized	Remarks
	As per PP	As per Contract		
(1)	(2)	(3)	(4)	(5)
a) Foreign				
b) Local		Nil		

09. **Construction/Erection/Installation Tools/Equipment :**

Description of Items	Quantity (As per DPP)	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 DPP :**

(In Lakh Taka)

Financial Year	Financial Provision & Physical Target as per Original DPP				Financial Provision & Physical Target as per Latest Revised DPP			
	Total	Taka	P. A.	Physical	Total	Taka	P. A.	Physical
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
2006-2007	1893.20	1893.20	-	76.84%	-	-	-	-
2007-2008	570.50	570.50	-	23.16%	699.56	699.56	-	28.52%
2008-2009	-	-	-	-	600.00	600.00	-	24.46%
2009-2010	-	-	-	-	1153.49	1153.49	-	47.02%
Total :	2463.70	2463.70		100%	2453.05	2453.05		100%

b) Revised ADP Allocation and Progress :

(In Lakh Taka)

Financial Year	Revised Allocation & Target				Taka Released	Expenditure & Physical Progress			
	Total	Taka	P. A.	Physical		Total	Taka	P. A.	Physical
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2007-2008	700.00	700.00	-	40.47%	700.00	699.56	699.56	-	40.41%
2008-2009	600.00	600.00	-	26.19%	600.00	599.90	599.90	-	26.19%
2009-2010	982.44	982.44	-	33.34%	982.44	981.38	981.38	-	33.34%
Total :	2282.44	2282.44	-	100%	2282.44	2280.84	2280.84	-	99.94%

D. ACHIEVMENT OF OBJECTIVES OF THE PROJECT

Objectives as per DPP	Actual Achievement	Reasons for shortfall, if any
(1)	(2)	(3)
1. Survey and Investigation (L. S)	100%	-
2. Petrol and Lubricant	100%	-
3. Stationary and Tender Document	100%	-
4. Bank Protection Work by C. C. Blocks (1.300 km)	100%	-
5. Slope Protection Work of Embankment (1.300 km)	100%	-

E. BENEFIT ANALYSIS**01. Annual Output :**

Items of Output	Unit	Estimated Quantity Expected at full Capacity	Actual Quantity of Output during the 1 ST year of Operation at full Capacity (or during real production for newly Completed Project)
(1)	(2)	(3)	(4)
a)			
b)			
		Does not arise	
c)			
d)			

02. Cost / Benefit :

Items		Estimated	Actual
(1)		(2)	(3)
a) Benefit Cost Ratio of the Project			
i)	Financial	6.42 : 1.00	6.42 : 1.00
ii)	Economic	7.41 : 1.00	7.41 : 1.00
b) Internal Rate of Return			
i)	Financial	73.03%	73.03%
ii)	Economic	81.33%	81.33%

03. Please give reasons for shortfall, if any, between the estimated and actual benefit :
Does not arise.

F. MONITORING AND AUDITING

Page No. 09/13

01. Monitoring :

Name & Designation of the Inspecting Official	Date of Inspection	Identified Problems	Recommendations
(1)	(2)	(3)	(4)
Ministry / Agency :			
1. Honorable Minister for Water Resources	29-05-2009		
2. Honorable State Minister for Water Resources	10-10-2009		
3. Md.Gulzer Hossain, Chief Engineer Southem Zone BWDB,Barisal.	18-03-2010 07-05-2010	-	-
2.			
3.			
IMED :			
1. Mr.Rabindranath Bormon, Director, IMED	05-08-2010		

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

Period of Audit	Date of Submission	Major findings / Objections	Whether Objections Resolved not
(1)	(2)	(3)	(4)
-	-	-	-

2.2 External Audit :

Audit Period	Date of Submission of Audit Report	Major findings / Objections	Whether Objections Resolved not
(1)	(2)	(3)	(4)

G. DESCRIPTIVE REPORT

01. General Observation/Remarks of the Project on :

1.1 Background :

Bangladesh is a riverine country. River bank erosion is a common phenomenon here. Bhola district is one of the major islands of Bangladesh surrounded by the Meghna river on the North-east and south and by the Tentulia river on the west. Bhola island is about 125 km long in the north-south direction while width is about 12 km in the east-west direction. Width of Bhola has decreased in the east-west direction as a result of bank erosion while the length along north-south direction has slightly increased as a result of accretion on the south. The area of the island is around 1500 km² and about 14 lakh people live in the district.

Bhola is protected by the embankment of Polder No.56/57 constructed under the Coastal Embankment Project (Phase-I). Vast area of Bhola district is saved from flood, tidal surge and saline water after construction of coastal embankment in this polder. But due to seasonal floods, recently erosion created by the Meghna river has become severe. After the floods in the year 2004, the erosion problem became more acute. Huge area of valuable land has been lost due to continuous erosion. Currently erosion has become more devastating in the Tulatali area adjacent to Bhola District Town. If this trend continues, then the Meghna may gradually shift its course towards Bhola Town. Thus, Bhola township will be subjected to much more threat of devastation. It is to be mentioned that Bhola District Town falls vulnerable to the erosion of the Shahbajpur channel of the Meghna River since long. The problem was initially taken care of by implementation of bank Protection of Bhola District Town from the Erosion of the Meghna River under Phase-I. Under this Project bank protection work from km 9.514 to 11.184 km and km 15.184 to km 15.514 = 2.00 km was implemented with an amount of Tk. 3132 Lac. The project appeared to be successful. But when the work of Phase-I of the project was in progress, serious erosion took place in the river bank from km 11.184 to 15.184 km = 4.00 km which is also near to the Bhola District Town.

Noticing the success of the Phase-I work, a PCP, August 2004, for bank protection from km 11.184 to km 15.184 = 4.00 km costing Tk. 8472.86 lac was prepared and submitted to the MoWR and the same was later on sent to the Planning Commission vide MoWR's Memo Nr. MOWR/P-1/18/2004/189, Dated : 11/10/2004. The Planning Commission vide their Memo Nr. PC/Im-3/Bhola/73/2004/458, Dated : 20/11/2004 informed that the PCP was not prepared on the findings and recommendations of any Feasibility Study. The Planning Commission advised to conduct Feasibility Study and then prepare the DPP based on the recommendations of the Study (Appendix-I).

Accordingly, the BWDB constituted a Committee of experts, headed by the Director, Planning Directorate-I, BWDB, Dhaka vide Memo Nr.39(10)-WDB/(Sectt)/Plan-I/Mise-3/2002, Dated: 12.05.2005 to conduct the feasibility (Appendix-II). The convener of the Committee submitted the Technical Study Report. November 2005, to the Board on the basis of which one DPP, December 2005, was prepared for the whole length of protection within a total estimated cost of Taka 8192.70 lac and submitted to the Board. During scrutiny the recommendations of the Study Report found to be non-realistic. The competent authority then did not accept the DPP, November 2005 and asked the study team to review their recommendations and submit a revised Technical Report upon which the DPP will be recast. Accordingly the convener of the committee submitted its Revised report to the BWDB vide Memo Nr.WDB/Plan-I/12, Dated : 07-02-2006. The recast DPP has been prepared in the light of recommendations laid down in the Revised Report (Appendix-III).

It may be mentioned that Bhola is the largest island in the Meghna Estuary and its north-eastern face has been eroding for the last several decades. On the other hand southern part of this island is accreting. Erosion/accretion along the coastline is not a continuous process, rather it is an intermittent process. The rate of erosion was varying over time and space. From 1973 to 1984, rate of erosion was very high along the coast of Daulat Khan and Tajumuddin (Burhanuddin) Thanas. The Meghna River penetrated 2.5 km and 3 kilometers towards the mainland in these Two areas. From 1984 to 1993 erosion was concentrated in Bhola Sadar, Daulatk Khan and Tajumuddin but the lateral

extent was not as high as it was during preceding decade. From 1993 to 2000 erosion was continuing at a very high rate of about 300 m/year.

During 1973-2000 land erosion was also very high along the coast of Tajumuddin and Lalmohan Thanas where river penetrated about 1.5 km into the mainland. The most erosion effected area in last 3 decades is the coastline along Burhanuddin, Daulatkhan and Bhola Sadar i, e, Bhola District Town area.

Analysis of time series satellite imageries from 1973 to 2002 showed that more than 130 km land has been eroded along the north-eastern shoreline of Bhola Island (right bank of the Shahbajpur channel) from Ilisha ghat to Tajumuddin with an annual average erosion rate of 90m (A Manjur, 2004). The erosion of eastern bank (right bank of Shahbajpur channel) and western bank (Tentulia river) of Bhola island from 1973 to 2002 was significant. It has been observed that Shahbajpur channel shifted about 2 km into Bhola island over the last 7 years. The erosion during the last two monsoons (2003 and 2004) is about 500m along the right bank of Shahbajpur channel at Tulatali, i, e, near Bhola District Town.

The Study report mentioned that the erosion in the last two years is in the range of about 300m to 700m along right bank of the Shahbajpur channel near the Tulatali area.

However, the Meghna Estuary is characterized by a number of hydrodynamic factors such as tides, upland flow, sediment load, estuarine circulation, waves and storm surges, the interaction of these driving forces caused the continuous morphological changes in the estuary. The understanding of the interaction of these forces and hydro-morphological behavior of the Meghna Estuary are essential to identify the definite causes of erosion. However, preliminary analysis of available data, map and review of reports suggested a number factors causing the erosion on right bank of Shahbajpur channel near Burhanuddin Upazila. The main factors are :

- i) The distributary's system of Meghna Estuary includes Shahbajpur channel. Tentulia river and Hatia channel, among these distributaries, Shahbajpur channel is the main carrying channel of the fluvial flows brought by the Ganges. Brahmaputra and Meghna river system. It carries about 60% of the flow of Lower Meghna. In order to accommodate the increased fluvial flows, the channel increases its width through bank erosion of north-eastern bank of Bhola island from Tazumuddin to Tulatali.
- ii) Accretion of land in the area of Noakhali main land pushed the Shahbajpur channel further west, resulting the erosion of north-eastern bank of Bhola island.
- iii) Formation of new char, widening and movement of chars of downwards in the Shahbajpur channel shifts the thalweg line close to shoreline of Bhola island.
- iv) The semidiurnal tidal characteristics of the Meghna Estuary. The tide level fluctuation varies from 1.6m to 3m in neap to spring cycle. This huge semi-diurnal fluctuation of tide level (water surface) is also inducing the river bank erosion during falling tide.

Mainly erosion occurs in monsoon during ebb tide. The erosion processes in the Meghna Estuary is mostly related to bank failure. Two types of bank failure generally occur. Liquefaction and flowage of material, shearing away of bank materials. The former type of bank failure occurs below the low water level or in the zone of low and high water level. Generally, they occur during the recession of flood hydrograph. Recession rates of water level directly influence the rate of failure. The most common processes of bank failure along the Lower Meghna Estuary is due to shearing, caused by flow attacking the bank or over-steepening of the bank by a thalweg approaching the bank.

Thus the flow in a river bend attacks the toe of the river bank, removing the sediment from the toe, resulting in an over-steepening of the river bank and causing the bank failure by slumping. An important factor of erosion is the near bank flow pattern, which is determined by the flow and the channel geometry. The wind-induced waves often have an important influence on the erosion and deposition processes. Waves generate an orbital velocity that is superimposed on the current

velocities thus stimulating erosion from the bottom and preventing settling of suspended sediment. The average significant wave height, under the prevailing S-SE winds (average wind speed 8m/s), the average significant wave height varies between 0.6-1.5m in the near shore zone to 0.1-0.6m in the landward part of the Meghna Estuary (DHV, 2001). During the monsoon season wave heights exceeds 2m with periods greater than 6 seconds. The wave data analysis implies that the waves in estuary also has influence on shoreline erosion of Bhola island. In the recent study it has been observed that the maximum depth interacted velocity is within the range of 1.5-2.5 m/s in the Shahbajpur channel.

The feasibility report indicated that serious river bank erosion was observed on the right bank of the Shahbajpur channel at Tulatali. The bank erosion at Tulatali near Bhola-sadar has turned to a devastating shape. The Shahbajpur channel migrated inside at Tulatali about 2km over the last 7 years. As a result, agricultural land and infrastructure consisting of school, college, hats and bazaars were lost into the river. The erosion rate has increased in the recent years due to the movement and widening of chars to downwards and shifting of deep channel (thalweg line) close to the river bank near Tulatali. In the last two years (2003 and 2004), about 300 m erosion had taken place. As a result more people have been affected and became homeless. On the basis of the present severe river bank erosion trend and shifting of the thalweg (deep main channel) towards the river bank at the vicinity of the Bhola Town, it is felt that, if immediate protective measures are not taken at Tulatali and the adjoining vulnerable area, then within next few years the Bhola District Township will be endangered seriously.

Sufferings of the people living in the erosion prone area would continue due to lack of mitigation measures. The expert team observed that many people, who lost their agricultural land and houses are now living on flood embankment of BWDB. This situation depicts the social impact of the erosion problem. The report also stated that further delay in taking remedial measures would result in loss of valuable properties and further degradation of social and environment conditions of the area.

The report committee also visited the protective work completed in 2002-03 and 2003-04 in a stretch of 2 km length costing of Tk. 3132 lakhs under Phase-I programme just immediate upstream of the proposed Phase-II area. The committee observed that the protective works with CC blocks executed was effective in protecting lives and properties.

03. Brief description on planning and financing of the Project and its applicability :
- | | | |
|------------------------|---|---|
| Project Identification | : | Erosion Protection. |
| Project Preparation | : | Prepared by field personnels. |
| Appraisal | : | Does not arise. |
| Credit Negotiation | : | Does not arise. |
| Credit Agreement | : | Does not arise. |
| Credit Effectiveness | : | Does not arise. |
| Loan Disbursement | : | Does not arise. |
| Loan Conditional ties | : | Does not arise. |
| Project Approval | : | Approved by the Minister in charge of the Planning and Finance. |
| Other (if any) | : | Does not arise. |
04. 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/Objective of the Project : Yes.
- 4.2 Programme for use of created-facilities of the Project : Facility is fixed as erosion protection.
- 4.3 O & M programme of the Project : Post project recurrent O & M works will be arranged from regular O & M allocation.
- 4.4 Impact of the Project
- Direct : Direct impact will be achieved from bank protection.
- Indirect : Local people will feel safe encouraging business flourishing.
- 4.5 Transfer of Technology and Institutional Building through the Project : Does not arise.
- 4.6 Employment generation through the Project :
- During implementation of the project employment opportunity was generated.
- 4.7 Possibility of Self-employment :
- Does not arise.
- 4.8 Possibility women-employment opportunity :
- During O & M Period women of the area will be able to get them employed beside there male partners.
- 4.9 Women's participation in development
- 4.10 Probable Impact on Socio-Economic activity :
- Economic activities will be increased due to protection from natural calamite.
- 4.11 Impact on environment :
- No negative impact on environment and bio-diversity.
- 4.12 Sustainability of the Project :
- Will be sustained as designed.
- 4.13 Contribution to poverty alleviation/reduction :
- Does not arise.
- 4.14 Opinion of the public representatives, local elite, local administration, teachers, religious leader, women's representatives etc. : All are satisfied.
- 4.15 Contribution Micro-credit programme and Comments on overlapping with any NGO activities : Does not arise.
05. Problems encountered during Implementation (with duration & steps taken to remove those)
- | | | |
|--|---|---|
| 5.1 Project Management | : | Does not arise. |
| 5.2 Project Director | : | Does not arise. |
| 5.3 Land Acquisition | : | Does not arise. |
| 5.4 Procurement | : | Does not arise. |
| 5.5 Consultancy | : | Does not arise. |
| 5.6 Contractor | : | Does not arise. |
| 5.7 Manpower | : | Does not arise. |
| 5.8 Law & Order | : | Does not arise. |
| 5.9 Natural Calamity | : | Created problem to main time schedule which was removed through adjustment. |
| 5.10 Project financing, allocation and release | : | Does not arise. |
| 5.11 Design formulation/approval | : | |

5.12 Project aid disbursement and reimbursement	:	Does not arise.
5.13 Mission of the development partners	:	Does not arise.
5.14 Time & Cost Over-run	:	Does not arise.
5.15 Project Supervision/Inspection	:	Does not arise.
5.16 Delay in Decision	:	Does not arise.
5.17 Transport	:	Does not arise.
5.18 Training	:	Does not arise.
5.19 Approval	:	Does not arise.
5.20 Others	:	Does not arise.

Prepared and submitted by :


(MD. MAHFUZUR RAHMAN)
Executive Engineer
Bhola O & M Division-I
BWDB, Bhola
and
Project Director.

06. Remarks & Recommendations of the Project Director :

The objectives of the Project have been achieved fully.

Dated :


(MD. SHEIKH FARID)
Superintending Engineer
Bhola O & M Circle
BWDB, Bhola.

07. Remarks/Comments of Agency Head :

Dated :

Signature and Seal

08. Remarks/Comments of the Officer-in-charge of the Ministry/Division :

Dated :

Signature and Seal