

RADP NO 13  
2012-13

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH  
MINISTRY OF WATER RESOURCES

PROJECT COMPLETION REPORT : IMED 04

FOR

REHABILITATION OF BHUTIAR BEEL & BARNAL SALIMPUR  
KOLABASHUKHALI FLOOD CONTROL & DRAINAGE  
PROJECT IN KHULNA DISTRICT

BANGLADESH WATER DEVELOPMENT BOARD

**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 :              | Rehabilitation of Bhutiar beel & Barnal Salimpur Kolabashukhali Flood Control & Drainage Project in Khulna District |
| 02. | Administrative Ministry/Division : | Ministry of Water Resources   |
| 03. | Executing Agency :                 | Bangladesh Water Development Board .  |
| 04. | Location of the Project :          | Division:Khulna. District: Khulna & Narail .<br>Upazila : Terokhada , Digholia , Rupsa & Kalia                      |

**05. Objective of the Project :**

- \* To improve drainage facilities in Bhutiar Beel, Padma Beel, Bashukhali Beel, Kola Beel, Ketla Beel, Salimpur Beel, Kalia Beel, Piprakandi Beel and adjacent other beels and provide irrigation facilities for increases agricultural production;
- \* To prevent intrusion of saline water;
- \* To make sweet water reservoir into the Chitra and Khaikhali River for using homestead purposes and supplementary irrigation;
- \* To protect the project area from entrances of sea-saline water and from perilous siltation of drainage khals;
- \* To increases employment opportunities of farm labour;
- \* To achieve the national target by socio-economic development of the project area;
- \* To alleviate poverty and generate employment opportunities;
- \* To remove water logging of the project area;
- \* Accelerating agricultural production and other income generating activities;
- \* Reducing the intensity of flood in order to reduce damage of crops properties and lives; and
- \* Gross area of the project is 36456 ha and net area is 26513 ha.

Linkage with Sixth Five Year Plan :

Water resources sector has undergone significant shift in terms of policies, strategies, plans and programs in the last decade. The objectives of this project relevant with Sixth Five Year Plan ( SEYP ) have been given below :

2. Enhancing conveyance capacity of water courses through river dredging.
3. Protection of river erosion.
6. Optimum use of available flows of the common rivers for multipurpose use.
8. Flood control / flood management.

06. Estimated Cost :

(In lakh Taka)

	Original	Latest Revised
(a) Total	2133. 98	1881. 89
(b) Taka	2133. 98	1881. 89
(c) Foreign Currency	—	—
(d) Project Aid	—	—
(e) RPA	—	—

07. Date of Approval :

PCP

PP

- (a) Original : February, 2010  
(b) Latest Revised : March, 2013  
(c) Recast : May, 2013

08. Implementation Period :

	Date of Commencement	Date of Completion
(a) Original	February, 2010 to June, 2012	-
(b) Latest Revised	February, 2010 to June, 2013	-
(c) Actual	February, 2010 to June, 2013	June, 2013

09. Financing Arrangement (Source-wise) : GOB

9.1 Status of Loan/Grant

- a) Foreign Financing : Does not arise

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
N/A							

b) GOB :

(In lakh Taka)			
Total amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
1881.89	-	-	-

9.2 Utilization of Project Aid : (Source wise)

Source (s)	Total Amount		Actual Expenditure		Unutilized Amount	
	In US \$	In Local Currency	In US \$	In Local Currency	In US \$	In Local Currency
	2	3	4	5	6	7
N/A						

9.3 Re-imbursible Project Aid (RPA):

R P A Amount		Amount Spent	Amount Claimed	Amount Re-imbursed	Remarks
As per PP	As per Agreement				
1	2	3	4	5	6
N/A					

## B. IMPLEMENTATION POSITION

01. Implementation Period :

Implementation Period as per PP		Actual Implementation period	Time Over-run (% of original implementation period)	Remarks
Original	Latest Revised			
1	2	3	4	5
February, 2010 to June, 2012	February, 2010 to June, 2013	February, 2010 to June, 2013	41.38%	

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	2133.98	1881.89	1881.66	Decrease 11.82%	
TAKA	2133.98	1881.89	1881.66	Decrease 11.82%	
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)	9	9	9	-	8	1
Staff(s)	22	27	22	-	19	3
Total :	31	36	31	-	27	4

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	N/A				
b. Local	N/A				

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:						
Petrol & Lubricant						
a. For vehicle	1 item	7.50	100.00 %	7.50	100.00 %	
b. For Excavator	-	17.50	100.00 %	17.50	100.00 %	

1	2	3	4	5	6	7
Printing & Publication	1 item	1.50	100.00 %	1.50	100.00 %	
Stationary, seal & stamos	1 item	2.00	100.00 %	2.00	100.00 %	
Survey & Investigation	1 item	13.05	100.00 %	12.74	100.00 %	
Engineering survey & study Morphological with Mathematical Model Preparation	1 item	99.96	100.00 %	99.96	100.00 %	
Social & Environmental Impact Study for Engineering intervention	1 item	37.99	100.00 %	37.99	100.00 %	
Repair of transport & Vehicles	1 item	3.50	100.00 %	3.50	100.00 %	
Office equipments	L.S	0.50	100.00 %	0.50	100.00 %	
<b>Sub-Total (A) :</b>		<b>183.50</b>	<b>100.00 %</b>	<b>183.19</b>	<b>100.00 %</b>	
<b>B. Capital Component</b>						
<b>Acquisition of Assets</b>						
Motor cycle 100CC 2 Nos	Nos	2.50	100.00%	2.50	100.00%	
Leveling Machine with Stands (1 set)	Set	1.00	100.00%	1.00	100.00%	
Laptop (1 No)	No	0.75	100.00%	0.75	100.00%	
<b>Purchase of Excavator (Long Boom type) (1 No.)</b>	No	155.95	100.00 %	155.95	100.00 %	
Land Acquisition 2.00 ha	ha	40.00	100.00%	40.00	100.00%	
<b>Construction works</b>						
Repair of Sluices 8 Nos	Nos	120.00	100.00%	120.00	100.00%	
Construction of 1-Vent Sluices 2 Nos	Nos	255.00	100.00 %	255.00	100.00 %	
Construction of 2-Vent Sluices 4 Nos	Nos	789.19	100.00%	789.30	100.00%	
Re-excavation of Khals 20.98 km	km	225.00	100.00%	224.99	100.00%	
Re-excavation of river 2.00 km	km	44.00	100.00%	44.00	100.00%	
Re-sectioning/ Re-construction/ Construction of embankment 5.00km	km	45.00	100.00 %	45.00	100.00 %	
O & M During Construction	1 item	20.00	100.00%	19.98	100.00%	
CDST + VAT	1 item	0.00	-	0.00	-	
<b>Sub-Total (B) :</b>		<b>1698.39</b>	<b>100.00%</b>	<b>1698.47</b>	<b>100.00%</b>	
<b>Total of (A + B)</b>		<b>1881.89</b>	<b>100.00 %</b>	<b>1881.66</b>	<b>100.00 %</b>	
C. Physical Contingency (a+b)	1 item	0.00	-	0.00	-	
D. Price Contingency (a+b)	1 item	0.00	-	0.00	-	
<b>Grand Total (A+B+C+D)</b>		<b>1881.89</b>	<b>100.00%</b>	<b>1881.66</b>	<b>100.00%</b>	

06. Information regarding Project Director (s) :

Name & Designation with pay Scale.	Full time	Part time	Responsible for more than one project	Date of		Remarks
				Joining	Transfer	
1	2	3	4	5	6	7
Abdul Mozid Molla 27750-1000x8- 33750	-	Part time	Yes	01.02.2010	01.04.2011	Death
Dipak Kumar Sarker 27750-1000x8- 33750	-	Part time	Yes	08.04.2011	Upto date	

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	Condemne /damaged with date	Remarks
1	2	3	4	5	6	7
Car	-	-	-	-	-	
Jeep	-	-	-	-	-	
Microbus	-	-	-	-	-	
Minibus	-	-	-	-	-	
Bus	-	-	-	-	-	
Pick-up	-	-	-	-	-	
Truck	-	-	-	-	-	
Motor Cycle,	2 Nos.	29.06. 2010	-	29.06. 2010	-	
By Cycle	-	-	-	-	-	
Speed Boat	-	-	-	-	-	
Launch	-	-	-	-	-	
Others with name	Levelling Machine with Stands Laptop					

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 :

Procurement of Goods

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Proposal Cost (in Lakh 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
1. Motor Cycle (100 C.C. 2 Nos.)	2.50	2.50	25.06.2010	27.06.2010	29.06.2010	29.06.2010

1	2	3	4	5	6	7
2. Levelling Machine with Stands(1No.)	1.00	1.00	13.06.2010	24.06.2010	29.06.2010	29.06.2010
3. Laptop(1 No.)	0.75	0.75	13.06.2010	24.06.2010	29.06.2010	29.06.2010
4. Excavator ( Long Boom Type )	155.95	155.95	04.01.2011	01.12.2010	24.03.2011	21.12.2011

### Procurement of Works :

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Proposa l Cost (in Lakh 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
Re-excavation of Hatiar Khal Km 1.020 to Km 1.400= 0.38 Km	225.00	9.90	30-08-10	14-11-10	28-05-11	30-04-2012
Re-excavation of Hatiar Khal Km 1.400 to Km 1.800= 0.400 Km		10.00	30-08-10	14-11-10	28-05-11	30-04-2012
Re-excavation of Hatiar Khal Km 1.500 to Km 3.500= 1.70 Km		39.18	30-08-10	14-11-10	25-06-11	30-04-2012
Re-excavation of Hatiar Khal Km 3.500 to Km 6.200= 2.700 Km		57.80	30-08-10	14-11-10	25-06-11	30-04-2012
Re-excavation of Dead Chitra River Km 4.900 to Km 9.900= 5.00 Km		63.77	30-08-10	14-11-10	25-06-11	30-04-2012
Re-excavation of Dead Chitra River Km 9.900 to Km 12.900= 3.00 Km		65.70	30-08-10	14-11-10	06-04-11	30-04-2012
Re-excavation of Joysena Khal Km 0.000 to Km 0.500= 3.00 Km		7.43	30-08-10	14-11-10	30-04-11	30-04-2012
Re-excavation of Joysena Khal Km 0.500 to Km 0.970= 0.470 Km		7.34	30-08-10	14-11-10	30-04-11	30-04-2012
Re-excavation of Atiar Kachikata Khal Km 0.000 to Km 2.100= 2.100 Km		21.62	30-08-10	14-11-10	07-04-11	30-04-2012
Re-excavation of Hatishora Khal Km 0.000 to Km 1.730= 1.730 Km		27.64	30-08-10	14-11-10	07-04-11	30-04-2012
Re-excavation of Ambaria Khal Km 0.00 to Km 3.00	11.54	10-10-10	11-01-12	29-03-12	30-04-2012	
Re-excavation of Chitra River Km 7.000 to Km 9.000= 2.000 Km	44.00	52.51	30-08-10	14-11-10	07-04-11	30-04-2012
Construction of 2-Vent (1.50x1.80m) sluice at Madhupur Km 74.70	789.19	185.49	12-10-10	02-01-11	13-01-12	15.06.2013
Construction of 2-Vent (1.50x1.80m) sluice at Kola Km 75.80		183.67	12-10-10	02-01-11	01-02-12	25.06.2013
Construction of 2-Vent (1.50x1.80m) sluice at Padmabila Km 79.70		200.03	12-10-10	02-01-11	01-02-12	25.06.2013
Construction of 2-Vent (1.50x1.80m) sluice at Joysena Km 32.50		118.03	23-01-12	28-06-12	29-03-13	28.06.2013
Re-sectioning/Re-construction/ Construction of embankment from Km 69.600 to Km 74.600	45.00	31.93	14-11-10	04-01-11	28-06-11	28.08.2011
Re-sectioning of embankment at Iaskarpur from km 71.500 to km 71.635 on the left bank of Atara river		13.37	01-05-13	15-04-13	25-06-13	18.06.2013

1	2	3	4	5	6	7
Construction of 1-Vent (1.50x1.80m) sluice at Mokumpur Km 68.700	225.00	112.904	30-08-12	20-09-12	29-03-13	20.06.2013
Construction of 1-Vent (3.00x3.00m) drainage cum boat pass at Athar Kachikata Km 70.20		115.16	23-01-12	28-06-12	29-03-13	25.06.2013
Repair of 1-Vent (0.91 x1.22m) sluice at Gazirhat	120.00	12.05	10-10-10	11-01-12	28-04-12	15.05.2012
Repair of 2-Vent (1.50 x1.80m) sluice at Bhombhug		24.90	10-10-10	11-01-12	28-04-12	15.05.2012
Repair of 1-Vent (0.91 x1.22m) sluice at Madhabpasa		19.26	04-04-12	28-05-12	23-11-12	23.11.2012
Repair of 1-Vent (0.91 x1.22m) sluice at Kaha		14.06	06-11-12	05-12-12	03-06-13	03.06.2013
Repair of 6-Vent (1.52 x1.80m) sluice at Bashukhali		25.01	06-11-12	22-01-13	11-05-13	25.06.2013
Repair of 3-Vent (1.52 x1.80m) sluice at Alipur		11.69	06-11-12	22-01-13	11-05-13	30.06.2013
Repair of 1-Vent (0.91 x1.22m) sluice at Kaibartasasa		7.22	06-11-12	22-01-13	11-05-13	25.06.2013
Repair of 1-Vent (0.91 x1.22m) sluice at Jurjhuria		5.01	15-07-12	22-01-13	11-05-13	29.05.2013

**SERVICES :-**

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Proposal Cost (in Lakh 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
Engineering Survey & Study, Morphological and Hydrological with Mathematical Model preparation	99.96	99.96	-	December/ 2010	30.06.2012	30.06.2012
Social & Environmental Impact Study	37.99	37.99	-	11.07.2010	24.01.2011	30.06.2012

**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
Foreign :			N/A	
Local :			N/A	

**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
Purchase of Escavator(Long Boom type)	1 no	21.12.2011	21.12.2011	-	1	

**C. FINANCIAL AND PHYSICAL PROGRAMME :**

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

(In lakh Taka)

Financial Year	Financial provision & physical target as per original PP				Financial provision & physical target as per latest revised PP			
	Total	Taka	P.A.	Physical %	Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9
2009-10	1065.65	1065.65	-	49.94	3.95	3.95	-	0.20
2010-11	911.57	911.57	-	42.72	380.30	380.30	-	20.20
2011-12	156.76	156.76	-	7.34	597.52	597.52	-	31.75
2012-13	-	-	-	-	900.12	900.12	-	47.83
Total	2133.98	2133.98	-	100	1881.89	1881.89	-	100

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

(In lakh Taka)

Financial Year	Revised Allocation & target				Taka release	Expenditure & physical progress			
	Total	Taka	P.A.	Physical %		Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9	10
2009-2010	3.95	3.95	-	0.21%	5.00	3.95	3.95	-	0.21%
2010-2011	380.19	380.19	-	20.21%	500.00	380.19	380.19	-	20.21%
2011-2012	597.52	597.52	-	31.75%	600.00	597.52	597.52	-	31.75%
2012-2013	900.12	900.12	-	47.83%	900.00	900.00	900.00	-	47.83%
Total	1881.89	1881.89	-	100%	2005.00	1881.66	1881.66	-	100.00%

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

Objectives as per PP	Actual achievement	Reasons for shortfall, if any
(a) To improve drainage facilities in Bhutiar Beel, Padma Beel, Bashukhali Beel, Kola Beel, Ketla Beel, Salimpur Beel, Kalia Beel, Piprakandi Beel and adjacent other beels and provide irrigation facilities to increases agricultural production ;	75-80% increase	Will be Achieved after Completion of next Project (Phase -II)
(b) To make sweet water reservoir into the Chitra and Khaikhali River for using homestead purposes and supplementary irrigation ;	80-85% increase	Will be Achieved after Completion of next Project (Phase -II)

## E. BENEFIT ANALYSIS

### 01. Annual Out-put:

Items of out-put	Unit	Estimated quantity expected at full capacity	actual quantity of out-put during the 1st year of operation at full capacity (or during, real production for newly completed project).
(a) Additional Paddy production	M.Ton	60896.15	48717
(b) Flood Control, Drainage & Irrigation Facilities	Ha	26513	21210
(c) Production in Agricultural Sector	Tk.	2974.01 lakh	2379.21 lakh
(d) Re-excavation of Rivers/Khal	Km	28.70	20.98

### 02. Cost / Benefit :

Item	Estimated	Actual
(1) Benefit cost ratio of the project		
(i) Financial	6.27:1.00	6.27:1.00
(ii) Economic	8.45:1.00	8.45:1.00
(2) Internal Rate of Return		
(i) Financial	49.52 %	49.52 %
(ii) Economic	60.01 %	60.01%

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

## F. MONITORING AND AUDITING

### 0.1 Monitoring :

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
<b><u>Ministry/Agency</u></b>	20.01.2011	-	-
(a)Mr. Ramesh Chandra Sen, Hon'ble Minister, MoWR (b)Mr. Md. Azizul Hoque, ADG(W.R), BWDB		-	-
Mr.Porimol Chandra Saha, Joint Secretary, MoWR	06-12-2011		
Mr. Saleh Ahmed, Joint Secretary, MoWR.	24-08-2012		
Mr. Shaikh Altaf Ali, Senior Secretary, MoWR.	14-10-2012		
	-	-	-
<b><u>(b) IMED :</u></b>			
<b><u>(c) Others :</u></b>			
Dr. Mashuir Rahman, Advisor, Economic Affairs	20-01-2011	-	-

## 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
-	Not done	-	-

### 2.2. External Audit :

Audit period	Date of submission of Audit Report	Major findings/objections	Whether objections resolved or not.
1	2	3	4
2009-10	22.05.2011	-	-
2010-11	29.03.2012	-	-
2011-12	10.02.2013	-	-

## G. DESCRIPTIVE REPORT

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

#### 1.1 Background

The Proposed project consists of rehabilitation program of two existing project : a) Bhutiar Beel Drainage Scheme and c) Barnal Salimpur Kolabashukhali FCD project. The first one was implemented during 1992-93 and the other one during 1982-83. The total gross area of the two project is 36456 ha and net area is 26515 ha. The life time of the two projects was over. The surrounding river vig Chitra, Athrobanki almost silted up and become dead river. The drainage khals are loosing their drainage capacity due to siltation which happend water congestion of the project area for last three years. The project consists of physical works vig- re-excavation of internal khal, re-excavation of Chitra river, construction of drainage sluices etc. The Chitra river situates at the midle of the proposed project will be used as water reservoir and silt intrusion to be stopped from its upstream and down stream. The excess water of the beel area are to be diverted into the Atia river which is now only the perinial river of the project area.

Bhutiar Beel Drainage scheme was completed during 1992-93 under Dutch Aided (EIP) program. Major project components are a) Embankment 76 km, b) Canal 8 km, c) closure 9 Nos, d) Flushing sluice 7 Nos and f) Bridge/Culvert 6 Nos. It situates in upazila Terokhada and Kalia ubder the district Khulna and Narail respectively. The project area is 13300 ha (gross) and 10121 ha (Net). On the other side (right side) of the River Chitra, Barnal-Salimpur-Kolabashukhali (BSKB) FCD Prioect was executed during 1982-83 ubder IDAcredit No. 864BD in upazila Terokhada, Rupsha & Digholia of Khulna district and upazila Kalia of Narail Distret. The objectivePriject was for protection of Project area from saline water intrusion by constructing embankment and improvement of drainage facilities by sluice and internal drainage channel Besides provision was also made for supplement irrigation byflushing sluices. The Project area is 23156 ha (gross) and 16394 ha (net). The drainage problem in

Bhuitar Beel area is acute and in BSKB area is going to be acute. The silt Proportion into the tidal rivers is increased day by day and the situation so aggressive the some of the coastal rivers almost are going to be dead. The river Chitra, Khaikhali and Atharabaki and branch khal of them became silted up and aggravated to stop the Project benefits to farmers and other stake-holders. If the remedial measures are not to be taken within short period, the rivers will be dead and irrecoverable and relief from acute drainage problems will not be within the range of possibility which will ultimately be a hard obstruction to increase food production to achieve self sufficiency of food in National level.

### **1.2 Justification/Adequacy**

Environmental clearance from the DoI. is required for any water development projects under the environment Conservation Act. of 1995, Section 12 of the Act. stipulates that no industrial unit or project shall be established or undertaken without prescribed by the Rules.

The procedure for obtaining Environmental Clearance from the DoI: is set out in the Environment Conservation Rules 1997. The Rules divide projects into four categories. namely Green, Orange A, Orange B, and Red depending upon their nature, and hence perceived environmental impacts.

Therefore it is required to conduct EIA/SIA study for water development project that falls under red categories and perceived an environmental impacts. So, this study will fulfill the requirement for obtaining the environmental clearance from the DoE:

### **1.3 Objectives**

The main objectives of the project are :

- \* To improve drainage facilities in Bhutiar Beel, Padma Beel, Bashukhali Beel, Kola Beel, Ketla Beel, Salimpur Beel, Kalia Beel, Piprakandi Beel and adjacent another beels and provide irrigation facilities for increase agriculture production ;
- \* To prevent intrusion of saline water ;
- \* To make sweet water reservoir into the Chitra and Khaikhali river for using homestead purposes and supplementary irrigation ;
- \* To protect the project area from entrance of sea-saline water and from perilous siltation of drainage khals ;
- \* To increase employment opportunities of farm labour
- \* To active the national target by socio-economic developing of the project area ;
- \* To alleviate poverty and generate employment opportunities.
- \* To remove water logging of the project area.
- \* Accelerating agricultural production and other income generating activities
- \* Reducing the intensity of flood in order to reduce damage of crops, properties and lives.
- \* Gross area of the project is 36456ha and net area 26513 ha.

### **1.4 Project revision with reasons : Not required.**

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

Bangladesh is riverine country and bank line erosion of rivers has a recurrent effect. River bank erosion in alluvial lands of Bangladesh is a complex and dynamic thrust of nature due to strong onrush of water and major variation in between normal water flow and surges of inflow during monsoon & post-monsoon period in each year. The monsoon discharge of the major river is so large that there is recurrence of flood every year. Sometimes it become very severe and causes immense damage 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 dweller living within bank lines.

The belligerence of river bank erosion has caused for landlessness and pauperization of people living within riverside. In this backdrop, there have been growing concerns now for reassessment of the economic and socio-political benefits of protecting important locations, infrastructures, valuable properties and towns, growth centers etc. The issue has been duly emphasized in the National Town plan. The National water policy emphasized for protection of strategic geographic location & important economic zones from devastating erosions different mighty rivers. Also National Water Management Plan emphasized on the development and management of water resources with appropriate measures for river erosion mitigation for enabling environment.

In this context, there have been a growing concern and reassessment of the economic and socio-political benefits of protecting important towns, infrastructure, hats and bazaars as well as agricultural land. Thus there has been a growing need for development of water sector and prioritized strategic locations of river bank have been stressed for phased implementation for execution of river bank protection programme at the apex level.

The present Government has given utmost importance on increasing agricultural production for overall socio-economic development. Due importance has been given for increasing fisheries and livestock production. The project objective includes maximum growth, increasing sector efficiency, inter sector linkages, planned utilization and efficient management of water resources.

As an action plan under said strategies & national development goals, proposed FCD work has been formulated.

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

- ◆ **Project Identification:** The Components of the Project have been identified by the Farmer.
- ◆ **Project Preparation:** The project has been prepared after taking the opinion from the affected farmer and its necessity.
- ◆ **Appraisal:** The project has been appraised by the farmers and approved by the competent Authority.
- ◆ **Credit Negotiation :** N/A.
- ◆ **Credit Agreement :** N/A
- ◆ **Credit Effectiveness :** N/A
- ◆ **Loan Disbursement :** N/A
- ◆ **Loan Conditionalities :** N/A
- ◆ **Project Approval.** The project has been approved by the competent authority.
- ◆ **Others (if any).**

### **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 :** N/A
- 4.3 **O & M programme of the project :** O&M manual was prepared by the competent authority.

- 4.4 Impact of the project :
- 4.4.1 Direct : The production of rice has already been increased upto 50-60% as reported by the cultivators. The production may be increased upto 70-75% as inform by the cultivators.
- 4.4.2 Indirect : Socio-economic condition of the project area has already been increased to a good extent.
- 4.5 Transfer of Technology and Institutional Building through the project : N/A
- 4.6 Employment generation through the Project : The employment of poor/landless people have already been generated through the project.
- 4.7 Possibility of Self employment : The facility of Self employment has already been generated to a good extent by cultivation.
- 4.8 Possibility of women-employment opportunity : Also, employment opportunity for women will be enhanced at the construction phase of the project.
- 4.9 Women's participation in development : The women of the area have already participated in the development work .
- 4.10 Probable Impact on Socio-Economic activity : The Socio-Economic condition of the project are has already been developed to a good extent.
- 4.11 Impact on environment : There will be no adverse impact on environment.
- 4.12 Sustainability of the project : The project will Sustain through active excavation of Khals & River.
- 4.13 Contribution to poverty alleviation/reduction : The project will contribute gradually in reducing/alleviation poverty.
- 4.14 Opinion of the public representatives, local elite, local administration, teachers, religious leaders, women's representatives etc. : The project itself is a Flood Control & Drainage Project.
- 4.15 Contribution of Micro-credit programmes and Comments on overlapping with any NGO activities : No.

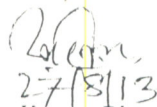
5. **Problems encountered during Implementation (with duration & steps taken to remove those)**

5.1	Project Management	Does not arise	5.11	Design formulation/approval	Does not arise
5.2	Project Director		5.12	Project aid disbursement and re-mbursement	
5.3	Land Acquisition		5.13	Mission of the development partners.	
5.4	Procurement		5.14	Time & Cost Over-run	
5.5	Consultancy		5.15	Project Supervision/Inspection	
5.6	Contractor		5.16	Delay in Decision	
5.7	Manpower		5.17	Transport	
5.8	Law & Order		5.18	Training	
5.9	Natural calamity		5.19	Approval	
5.10	Project financing, allocation and release.		5.20	Others.	

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

After completions of the project 75 to 80% of stagnant water of Bhutiar Beel & adjacent beels have been removed and lands come under cultivation. These removal of water have been possible due to excavation of east-west connected khal i.e. Bhutiar Beel to the Atai river which lies adversed natural gradient. So it does not sustainable for a long time and also need O&M budget for sustainability of the Project.

For the permanent solution, IWM submitted a feasibility study report. According to the recommendation a DPP already submitted to MoWR. After implementation of the project water stagnant problem will be solved permanently.


  
27/8/13  
(Apurbo Kumar Bhowmick)  
Executive Engineer,  
Khulna O&M Division-I,  
BWDB, Khulna.

  
(Dipak Kumar Sarker)  
Project Director  
&  
Superintending Engineer  
Jessore O&M Circle  
BWDB, Khulna.

Date : .....


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

Date : .....

  
Signature and Seal  
28/8

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

Date :

  
Signature and Seal