



BANGLADESH WATER DEVELOPMENT BOARD

PROJECT COMPLETION REPORT

IMED FORM NO. : 04/2003 (Revised)

NAME OF PROJECT : PROTECTION OF RIGHT BANK OF JAMUNA RIVER AT
SIRAJGANJ SADAR AND KAZIPUR UPAZILA IN
SIRAJGANJ DISTRICT (1ST REVISED).

DIVISION : SIRAJGANJ O&M DIVISION, BWDB, SIRAJGANJ

CIRCLE : BOGRA O&M CIRCLE, BWDB, BOGRA

ZONE : NORTH-WESTERN ZONE, BWDB, RAJSHAHI.

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

PROJECT COMPLETION REPORT : IMED 04/2003 (Revised)

A. PROJECT DESCRIPTION :

01. Name of the Project : Protection of Right Bank of Jamuna River at Sirajganj Sadar and Kazipur Upazila in Sirajganj District (1st Revised).
02. Administrative Ministry/Division : Ministry of Water Resources
03. Executing Agency : Bangladesh Water Development Board.
04. Location of the Project : Upazila-Sirajganj Sadar & Kazipur, District-Sirajganj.
05. Objective of the Project :

The principal objective of the project is to prevent the erosion of riparian land on the right or west bank of Jamuna River from Maizbari to Meghai and at Bahuka by construction of Bank Revetment works for a length of 9.250 km which would protect Maizbari, Meghai and Bahuka Semi-urban areas of the Kazipur Upazila from major damaged and cumulative destruction.

06. Estimated Cost :

(In lakh Taka)

	Original	Latest Revised
(a) Total	28540.20	42081.73
(b) Taka	28540.20	42081.73
(c) Foreign Currency		
(d) Project Aid		
(e) RPA		

07. Date of Approval :

PCP	PP
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- (a) Original : 07-11-2010
- (b) Latest Revised : 19-05-2015

08. Implementation Period :

	Date of Commencement	Date of Completion
(a) Original	October'2010	June'2013
(b) Latest Revised	October'2010	June'2017
(c) Actual	October'2010	June'2017



09. Financing Arrangement (Source-wise) :

9.1 Status of Loan/Grant

a) Foreign Financing :

Source (s)	Currency as per Agreement	Amount in US \$ (Million)	Nature (Loan/Grant/ supplier's/ credit)	Date of Agreement	Date of Effective -ness	Date of Closing	
						Original	Revised
1	2	3	4	5	6	7	8
Not Applicable							

b) GOB :

(In lakh Taka)			
Total amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
42081.73	-	42081.73	-

9.2 Utilization of Project Aid : (Source wise)

Source (s)	(In million)					
	Total Amount		Actual Expenditure		Unutilized Amount	
	In US \$	In Local Currency	In US \$	In Local Currency	In US \$	In Local Currency
1	2	3	4	5	6	7
Not Applicable						

9.3 Re-imbursible Project Aid (RPA) :

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

B. IMPLEMENTATION POSITION

01. Implementation Period :

Implementation Period as per PP		Actual Implementation period	Time Over-run (% of original implementation period)	Remarks
Original	Latest Revised			
1	2	3	4	5
Oct'2010-June-2013	Oct'2010-June-2017	Oct'2010-June-2017	145.45%	

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	28540.20	42081.73	39912.32	39.85%	The Project cost is increased due to morphological change of the river.
TAKA	28540.20	42081.73	39912.32	39.85%	
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)	Existing man power of the implementation agency were deployed during execution of the project. No separate manpower was engaged for the project.					
Staff(s)						
Total :						

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

Field of Training /Study tour/workshop/ Seminer etc.	Provision as per PP		Actual		Remarks
	Number of person	Man - months	Number of person	Man - months	
1	2	3	4	5	6
a. Foreign	Not Applicable				
b. Local	Not Applicable				



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

(In lakh Taka)

Items of work (as per PP)	Unit	Target (as per PP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
A) Revenue Component:						
Petrol & Lubricant	1 Item	12.00	1 Item	12.00	1 Item	
Printing and Publications	1 Item	4.00	1 Item	4.00	1 Item	
Stationary, Seal & Stamps	1 Item	5.00	1 Item	5.00	1 Item	
Honorarium/Fee/Remu neration	1 Item	5.00	1 Item	3.05	1 Item	
Mid Term Evaluation	1 Item	8.00	1 Item	8.00	1 Item	
Progress Monitoring	1 Item	3.00	1 Item	0.00	1 Item	
Survey (Bathymetric and Bank Line Survey)	1 Item	3.00	1 Item	3.00	1 Item	
Others Expenditure	1 Item	3.00	1 Item	3.00	1 Item	
Repair & Maintenance of Existing Vehicles (Jeep 3 nos, Pick up 1 no. & Motor Cycle 4 nos.)	1 Item	10.00	8 Nos (Part)	9.995	8 Nos (Part)	
Computer & Office Equipment (Photocopier Toner, Printer Cartidge & Computer Accessories)	1 Item	3.00	1 Item (Part)	3.00	1 Item (Part)	
Sub-Total (Revenue Component)		56.00		51.045		
B) Capital Component:						
Jeep made by Pragati 1 no. and Double Cabin Pickup 1 no.	2 Nos	79.25	2 Nos	79.25	2 Nos	
Motor Cycle (125 CC)	2 Nos	2.48	2 Nos	2.48	2 Nos	
Survey Equipment (Levelling Instrument 1 no. & Hand GPS 1 no. with accessories)	2 Nos	1.75	2 Nos	1.75	2 Nos	
Laptop & Desktop Computer with Laser Printer and accessories	4 Nos	4.00	4 Nos	4.00	4 Nos	
Office Equipment (Photocopier and accessories)	1 No	2.00	1 No	2.00	1 No	
Acquisition of Land (2.44 Ha)	2.44 hac	61.68	1.89 hac	61.68	1.89 hac	Acquisition of land is reduced due to reduction of cross bar length for morphological change of Jamuna river.
Bank Revetment Work (9.25 KM)	9.250 km	38942.74	9.250 km	38007.505	9.250 km	

(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
Construction of 3 Nos. Cross Bar	3 nos	753.06	3 nos	732.83	3 nos	
Dredging of Jamuna River 3.500 km	3.500 km	2078.77	3.500 km	869.78	2.500 km	As per decision of Technical Committee and bathymetric survey report remaining dredging work is not needed due to morphological change of Jamuna river.
O&M During project period for completed work		100.00		100.00		
Sub-Total (Capital Component)		42025.73		39861.275		
Total (A+B)		42081.73	100.00%	39912.32	100.00%	

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
(1) Mr. Sardar Sirajul Haque, Superintending Engineer Scale: 25750-33750 Tk.	--	Part time	Yes	22-12-2010	26-09-2012	
(2) Mr. Babul Chandra Shil, Executive Engineer Scale: 22250-31250 Tk.	--	Part time	Yes	26-09-2012	18-09-2014	
(3) Mr. AKM Momtaz Uddin, Superintending Engineer Scale: 25750-33750 Tk	--	Part time	Yes	18-09-2014	25-06-2015	
(4) Mr. Babul Chandra Shil, Superintending Engineer Scale: 50000-71200 Tk.	--	Part time	Yes	25-06-2015	30-06-2017	

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 (2350 CC)	01	16-09-2011	-	06-07-2017	-	
Microbus	-	-	-	-	-	
Minibus	-	-	-	-	-	
Bus	-	-	-	-	-	
Double Cabin Pick-up (2478 CC)	01	06-03-2012	-	06-07-2017	-	
Truck	-	-	-	-	-	
Motor Cycle (125 CC)	04	06-03-2012		06-07-2017		
By-cycle	-	-	-	-	-	
Speed Boat	-	-	-	-	-	
Launch	-	-	-	-	-	
Others with name	-	-	-	-	-	

08. Procurement of Goods, Works and Consultancy Services:

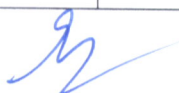
08.1 Goods & Works of the Project costing above Tk. 200.00 lakh. and Consultancy above Tk. 100.00 lakh :

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Proposal Cost (in 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
WDS-01 : Construction of bank revetment work including end termination on the right bank of Jamuna river at Maizbari in Upazila-Kazipur, District-Sirajganj during FY 2010-2011 to 2011-2012 (From bank meterage 0.00 to 500.00m = 500m)	2222.01	2222.01	27-01-2011	28-04-2011	27-06-2012	30-06-2014
WDS-02 : Construction of bank revetment work on the right bank of Jamuna river at Maizbari in Upazila-Kazipur, District-Sirajganj during FY 2010-2011 to 2011-2012 (From bank meterage 500.00 to 1000.00m = 500m) Tender Package No. WDS-02	1708.36	1706.72	27-01-2011	28-04-2011	27-06-2012	22-06-2014
WDS-03 : Construction of bank revetment work on the right bank of Jamuna river at Maizbari in Upazila-Kazipur, District-Sirajganj during FY 2010-2011 to 2011-2012 (From bank meterage 1000.00 to 1500.00m = 500m)	1465.64	1463.76	27-01-2011	28-04-2011	27-06-2012	28-02-2013

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
WDS-04 : Construction of bank revetment work on the right bank of Jamuna river at Maizbari in Upazila-Kazipur, District-Sirajganj duirng FY 2010-2011 to 2011-2012 (From bank meterage 1500.00 to 2000.00m = 500m) (Package Terminated)(Work done)	1649.85	1629.59	06-01-2014	25-06-2014	25-06-2015	23-06-2015
WDS-05 : Construction of bank revetment work on the right bank of Jamuna river at Maizbari in Upazila-Kazipur, District-Sirajganj duirng FY 2010-2011 to 2011-2012 (From bank meterage 2000.00 to 2500.00m = 500m)	1405.22	1404.67	27-01-2011	28-04-2011	27-06-2012	25-05-2014
WDS-06: Construction of bank revetment work on the right bank of Jamuna river at Maizbari in Upazila-Kazipur, District-Sirajganj duirng FY 2010-2011 to 2011-2012 (From bank meterage 2500.00 to 3000.00m = 500m).	1570.85	1573.42	27-01-2011	28-04-2011	28-04-2012	02-07-2015
WDS-07 : Construction of bank revetment work on the right bank of Jamuna river at Meghai in Upazila-Kazipur, District-Sirajganj duirng FY 2010-2011 to 2011-2012 (From bank meterage 3000.00 to 3500.00m = 500m)	1499.35	1444.33	27-01-2011	28-04-2011	27-06-2012	15-08-2015
WDS-08 : Construction of bank revetment work on the right bank of Jamuna river at Meghai in Upazila-Kazipur, District-Sirajganj duirng FY 2013-2014 & 2014-2015 (From bank meterage 3500.00 to 4000.00m = 500m). Tender ID No.8537.	1897.73	1872.58	02-06-2014	10-08-2014	30-06-2015	23-06-2016

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
WDS-09: Construction of bank revetment work on the right bank of Jamuna river at Meghai in Upazila- Kazipur, District-Sirajganj duirng FY 2013-2014 & 2014-2015 (From bank meterage 4000.00 to 4500.00m = 500m). Tender ID No.8538	1914.23	1914.23	02-06-2014	10-08-2014	30-06-2015	23-06-2016
WDS-10: Construction of bank revetment work on the right bank of Jamuna river at Meghai in Upazila-Kazipur, District-Sirajganj duirng FY 2013-2014 & 2014-2015 (From bank meterage 4500.00 to 5000.00m = 500m) Tender ID No.8539	1907.24	1882.33	02-06-2014	10-08-2014	30-06-2015	23-06-2016
WDS-10 R1 : Repair and Rehabilitation of Protective work from meterage 4500 to 5000m 500m in C/W the project Protection of Right Bank of Jamuna River at Sirajganj Sadar and Kazipur Upazila in Sirajganj District (1st Revised) at Meghai in Upazila-Kazipur District- Sirajganj during FY 2016- 2017". Package no: WDS-10 R1, Tender ID: 81797	2030.89	1873.31	29-11-2016	07-01-2017	30-06-2017	30-06-2017
WDS-11 : Construction of bank revetment work including end termination on the right bank of Jamuna river at Bahuka in Upazila-Sirajganj Sadar, District-Sirajganj during FY 2011-2012 (From bank meterage 0.00 to 500.00m = 500m (Package Terminated)	2950.43	2949.98	24-12-2014	05-02-2015	30-06-2016	30-06-2016
WDS-12 : Construction of bank revetment work on the right bank of Jamuna river at Bahuka in Upazila-Sirajganj Sadar, District-Sirajganj during FY 2011-2012 (From bank meterage 500.00 to 1000.00m = 500m) (Package Terminated)	1983.34	1983.33	24-12-2014	05-02-2015	30-06-2016	30-06-2016

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
WDS-13 : Construction of bank revetment work on the right bank of Jamuna river at Bahuka in Upazila-Sirajganj Sadar, District-Sirajganj during FY 2011-2012 (From bank meterage 1000.00 to 1500.00m = 500m)	1971.54	1708.04	24-12-2014	05-02-2015	30-06-2016	30-06-2017
WDS-14 : Construction of bank revetment work on the right bank of Jamuna river at Bahuka in Upazila-Sirajganj Sadar, District-Sirajganj during FY 2011-2012 (From bank meterage 1500.00 to 2000.00m = 500m) (Package Terminated)	2298.05	2119.05	24-12-2014	05-02-2015	30-06-2016	30-06-2016
WDS-15 : Construction of bank revetment work on the right bank of Jamuna river at Bahuka, Simla in Upazila-Sirajganj Sadar, District-Sirajganj during FY 2011-2012 (From bank meterage 2000.00 to 2500.00m = 500m) (Package Terminated)	2277.00	2276.33	24-12-2014	05-02-2015	30-06-2016	30-06-2016
WDS-16 : Construction of bank revetment work on the right bank of Jamuna river at Simla in Upazila-Sirajganj Sadar, District-Sirajganj during FY 2010-2011 to 2011-2012 (From bank meterage 2500.00 to 3000.00m = 500m) (Package Terminated)	2192.89	2191.89	24-12-2014	05-02-2015	30-06-2016	30-06-2016
WDS-17 : Construction of bank revetment work on the right bank of Jamuna river at Simla in Upazila-Sirajganj Sadar, District-Sirajganj during FY 2010-2011 to 2011-2012 (From bank meterage 3000.00 to 3500.00m = 500m) (Package Terminated)	2337.86	2337.62	24-12-2014	05-02-2015	30-06-2016	30-06-2017
WDS-18 : Construction of bank revetment work on the right bank of Jamuna river at Simla in Upazila-Sirajganj Sadar, District-Sirajganj during FY 2010-2011 to 2011-2012 (From bank meterage 3500.00 to 4000.00m = 500m)	1381.60	1381.60	27-01-2011	28-04-2011	30-06-2014	30-06-2015



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
WDS-18 RI: Rehabilitation of Protective work on the right bank of Jamuna River at U/S of Simla Spur-2 in C/W Protection of Right Bank of Jamuna River at Sirajganj Sadar and Kazipur Upazila in Sirajganj District (1st Revised) under Sirajganj O & M Division BWDB Sirajganj during FY 2016-2017 (From M-3500.00 to M-4000.00= 500 meter)". Package no: WDS-18 RI, Tender ID: 81798	1452.02	1287.07	29-11-2016	07-01-2017	30-06-2017	30-06-2017
WDS-19 : Construction of bank revetment work on the right bank of Jamuna river at Simla in Upazila-Sirajganj Sadar, District-Sirajganj during FY 2010-2011 to 2011-2012 (From bank meterage 4000.00 to 4250.00m = 250m) (Contract Terminated)	850.59	788.49	06-01-2014	25-06-2014	30-06-2015	30-06-2015
WDS-20: Construction of X-bar including slope protection (length = 550m) at meterage 2000.00 on the right bank of Jamuna river in Upazila-Kazipur, District-Sirajganj during FY 2012-2013.	482.06	482.03	05-12-2012	26-04-2013	25-09-2013	25-09-2013
WDS-21: Construction of cross-bar including slope protection at Simla near BRE Km. 155.00 on the right bank of Jamuna river in Upazila-Sirajganj Sadar, District-Sirajganj during 2015-2016 .	106.63	96.85	02-08-2015	02-11-2015	30-06-2016	30-06-2016
WDS-22: Construction of cross bar including slope protection at Bahuka near BRE Km. 152.00 on the right bank of the Jamuna river in Upazila-Sirajganj Sadar, District-Sirajganj during FY 2015-2016.	164.38	144.21	02-08-2015	02-11-2015	30-06-2016	30-06-2017
WDS-23: Dredging of Jamuna River 3.500 Km (Remarks: As per decision and discussion of 9th steering Committee meeting of this Project and field situation this rest delaying works will not be required due to Morphological change of river bed).	2078.77	869.78	02-01-2015	02-04-2015	30-06-2016	30-06-2017



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

Name of the Field	Approved man month		Actual man month utilised	Remarks
	As per PP	As per contract		
1	2	3	4	5

a) Foreign : Not Applicable

b) Local : Not Applicable

09. Construction/Erection/Installation Tools & 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
Not Applicable						

C. FINANCIAL AND PHYSICAL PROGRAMME :

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

(In lakh Taka)

Financial Year	Financial provision & physical target as per original PP				Financial provision & physical target as per latest revised PP			
	Total	Taka	P.A.	Physical %	Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9
2010-2011	6187.46	6187.46	-	21.68	513.79	513.79	-	1.22
2011-2012	11222.30	11222.30	-	39.32	1674.00	1674.00	-	3.98
2012-2013	11130.44	11130.44	-	39.00	4349.98	4349.98	-	10.34
2013-2014	-	-	-	-	5494.04	5494.04	-	13.06
2014-2015	-	-	-	-	9506.36	9506.36	-	22.51
2015-2016	-	-	-	-	13637.98	13637.98	-	32.41
2016-2017	-	-	-	-	6905.08	6905.08	-	16.48
Total =	28540.20	28540.20	-	100.00%	42081.73	42081.73	-	100.00%

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 1 %		Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9	10
2010-2011	513.79	513.79	-	1.6%	513.79	513.79	513.79	-	1.6%
2011-2012	1678.00	1678.00	-	5.21%	1678.00	1674.00	1674.00	-	5.22%
2012-2013	4349.98	4349.98	-	13.58%	4349.98	4349.98	4349.98	-	13.58%
2013-2014	5494.04	5494.04	-	17.17%	5494.04	5494.04	5494.04	-	17.17%
2014-2015	8000.00	8000.00	-	24.98%	8000.00	7999.15	7999.15	-	24.97%
2015-2016	12000.00	12000.00	-	31.80%	12000.00	12000.00	12000.00	-	31.80%
2016-2017	8000.00	8000.00	-	5.66%	8000.00	7881.36	7881.36	-	5.66%
Total =	40035.81	40035.81	-	100.00%	40035.81	39912.32	39912.32	-	100.00%

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT :

Objectives as per PP	Actual achievement	Reasons for shortfall, if any
(a) The principal objective of the project is to prevent the erosion of riparian land on the right or west bank of Jamuna River from Maizbari to Meghai and at Bahuka by construction of Bank Revetment works for a length of 9.250 km which would protect Maizbari, Meghai and Bahuka Semi-urban areas of the Kazipur Upazila Town's built-up from major damaged and cumulative destruction.	Construction of 9.25 km revetment work and 3 Nos cross bar has been completed along the vulnerable river bank near Bahuka of Sirajganj Sadar Upazila and Meghai and Maizbari area of Kazipur Upazila in the district of Sirajganj.	No Shortfall
(b) The long term objective of the project is to sustain socio-economic uplift and enhance natural security against river erosion as well as environmental enhancement of this region.	The existing Brahmaputra Right bank flood control Embankment (BRE), agricultural land and other establishments, adjacent to project area is now safe from devastating erosion of the Jamuna river.	
(c) Huge immovable public & private properties with estimated total worth of Tk. 227175.00 lakh dispersed in the vicinity of affected area from river erosion.	Environmental degradations due to erosion in the area is reduced and huge public and private properties dispersed around the erosion prone area are saved from river bank erosion.	

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) 9250 meter bank revetment work at Bahuka area of Sirajganj Sadar Upazila and Meghai Maizbari area of Kazipur Upazila in Sirajganj District. (Sirajganj Sadar = 4.25 km Kazipur upazila = 5.00 km)	M	9250m	9250 m
(b) 3 Nos cross bar at Bahuka area (2 nos) of Sirajganj Sadar Upazila and Mehgai (1 Nos) area of Kazipur Upazila in district Sirajganj.	M	Length 3 Nos Cross bar :757m	Length : 757m

02. Cost / Benefit :

Item	Estimated	Actual
(1) Benefit cost ratio of the project		
(i) Financial	(i) 1.78 : 1.00	Will be evaluated later by BWDB's concerned office & IMED.
(ii) Economic	(ii) 2.06 : 1.00	
(2) Internal Rate of Return		
(i) Financial	(i) 22.65%	
(ii) Economic	(ii) 26.04%	

02. Please give reasons for shortfall, if any, between the estimated and actual benefit:

No shortfall found between the estimated and actual benefit.

F. MONITORING AND AUDITING

0.1 Monitoring:

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
(a) Ministry / Agency:			
01.			
(a) Mr. Barrister Anisul Islam Mahmud, MP Honorable Minister, Water Resources Ministry	16-01-2016	Char land has been developed adjacent to package no. WDS-11.	Suggest to complete the Project as per design and specification as soon as possible.
(b) Mr. Mohammad Nasim, MP Honorable Minister, Ministry of Health and Family Planning	07-01-2015 13-09-2016 and on 13-02-2017 Honorable Minister visited the whole project.	-	-do-
(c) Mr. Ramesh Chandra Sen, MP Chairperson of Parliamentary Standing Committee on Ministry of Water Resources	05-08-2016	-	-
02.			
(a) Sarder Ilius Hossain Division Head, Agriculture Water Resource and rural Institution Division Planning Commission, Dhaka.	05-02-2016 and 24-06-2016	-	(a) To complete the partial damages of package WDS-10 and WDS-18. (b) To complete the remaining works of project as per design and specification with in stipulated time. (c) To complete the package no. WDS-21 and WDS-22 as per design and specification with in stipulated time. (d) To complete the remaining dumping work with in stipulated time. (e) All works including revetment works of this project further needed monitoring, repair and maintenance. (f) The project will be closed in June/2017. (g) Previously the packages were not completed within stipulated time take action as per PPR/2008 rules.
(b) Khondorer Ahsan Hossain Joint chief, Agriculture Water Resource and rural Institution Division Planning Commission, Dhaka.	05-02-2016 and 24-06-2016	-	
(c) Md. Faridul Islam Senior Assistant Chief, Agriculture Water Resource and rural Institution Division Planning Commission, Dhaka.	05-02-2016 and 24-06-2016	-	
(d) Mantu Kumar Biswas Joint Chief (Planning) Water Resources Ministry, Dhaka	05-02-2016 and 24-06-2016	-	
(e) Abu Yusuf Mohammad Rasel Assistant Chief, Planning Section-3, Water Resources Ministry, Dhaka	05-02-2016 and 24-06-2016	-	



Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
(b) IMED :			
1) Md. Siddikur Rahman Director General, IMED	28-12-2016	-	Complete the project as per design and specification
2) Md. Mizanur Rahman Director, IMED	10-03-2017	-	Complete the project as per design and specification
(c) Others: (Please specify)			
(a) Md. Ismail Hossain Director General BWDB	25-04-2016	-	Complete the project as per design and specification
(b) Mr. AKM Momtazuddin Chief Engineer North-Western Zone BWDB, Rajshahi.	08-11-2015, 24-01-2016 and 24-03-2016		
(c) Mr. Motaher Hossain Superintending Engineer Design Circle-6 BWDB, Dhaka.	14-11-2016	-	-
(d) Mr. Motaher Hossain Project Director/Additional Chief Engineer Ganga Barrage Project Dhaka.	28-02-2017	-	-
(e) Mr. Mohammad Ali Chief Engineer North-Western Zone BWDB, Rajshahi.	01-04-2017		

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
-	-	-	-
-	-	-	-
-	-	-	-

2.2. External Audit:

Audit period	Date of submission of Audit Report	Major findings/ objections	Whether objections resolved or not.
1	2	3	4
2010-2011	27-09-2011	-	Resolved
2011-2012	27-09-2011		Resolved
2012-2013	29-06-2016	-	Not resolved but under process
2013-2014	29-06-2016	-	Resolved
2014-2015	29-06-2016	-	Resolved



G. Description Report

1. General observations/Remarks of the Project:

1.1 Background:

The project area is located at the northern part of Sirajganj District under Sirajganj Sadar Upazila & Kazipur Upazila across the western/right of Jamuna River. Sirajganj District and its adjacent areas are now enriched with heavy communication facility and river training structures like Sirajganj Hard Point and Jamuna Bridge and the areas are historically well known as pioneer in Agriculture and Handloom production. Most of the handloom productions comes from Sirajganj, which supplements to a great part in national economy. Huge quantity of agricultural lands and enormous nos. of public and private establishments ie; School, College, Madrasa, Mosque, Textile Industries, Handloom Industries, Poultry and Diary Farms, Small and Cottage Industries are situated in project areas. The security of these important structures and priority places and industrial, agriculture & handloom growth centers are seriously threatened by continued bank erosion of the mighty unpredictable Jamuna River for last few years and flood protection facilities of the project area are also ceased since 1998. Mean while many movable and immovable properties of these areas are engulfed into the Jamuna River. Brahmaputra Right Embankment (BRE) constructed on the western bank of Jamuna River to protect the vast arable lands of 230000 hac against the ravages of yearly flood, had also to be retired several times in part of this area of Sirajganj due to severe bank erosion. BRE breaching also caused disruption of communication facilities of this region as because BRE of this part is being used as regional highway. Bank erosion in long stretch and engulfment of flood embankment had been resulted in significant economic and social impact to the locality.

The loss of land, crop and property had led to landlessness and impoverishment for thousands of households and handloom factories. Erosion displaced households were living as squatters in town's of Sirajganj and along the BRE itself. Continued bank erosion also caused insecurity to the existence of milestone structures Sirajganj Hard Point and Jamuna Bridge, Town's built-ups, many public and private social & industrial establishments, Brahmaputra Right Embankment and above all vast areas of valuable agricultural and settlement lands. River erosion at Kazipur and Sadar Upazila of Sirajganj District and in adjacent areas have taken serious turn requiring immediate implementation of Bank Revetment Work.

On that situation, on the demand of people from all sections of Kazipur and Sadar Upazila of Sirajganj District, Mayor of Kazipur Pourasava, Chairman of Local Union Parishad and strong recommendation of the Honorable MP of Sirajganj-1 constitution, this Development Project Proposal (DPP) has been prepared on priority consideration for immediate implementation to protect the Kazipur and Sadar Upazila of Sirajganj District from the severe erosion of Jamuna river.



1.2 Justification/Adequacy:

Bangladesh is a riverine country and bank line erosion of different rivers has been a recurrent effect. River bank erosion in alluvial lands of Bangladesh is a complex and dynamic thrust of nature due to strong onrush of water and major variation between normal water flow and surges of inflow during monsoon & Post-monsoon period in each year. The monsoon discharge of the major rivers is so large that there is recurrence of floods every year. Sometimes it becomes very severe and causes immense damages impacted by occurrences 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 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 106300 ha. of land were lost to erosion, while only 19300 ha. were accreted over the period 1982-1992. The net area of 87000 ha. lost to erosion is equivalent to an annual erosion rate of 8700 ha. In this context, there have been a growing concern and reassessment of the economic and socio-political benefits of protecting important towns, infrastructures, haats 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 river banks have been stressed for phased implementation of river bank protection programme at the apex level.

In this backdrop, the project is executed with commencement in FY 2010-2011 and completion in FY 2016-2017. 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 project area. Throughout the implementation of bank revetment works, safety of vast tract of agricultural lands and other immovable properties total worth of Tk. 227175.00 lakh is ensured against river erosion.

1.3 Objectives :

Main objective of the project are to provide protection against erosion damages of riparian lands of Kazipur & Sirajganj Sadar Upazila at Maizbari, Meghai, Bahuka and adjacent areas on the west bank of the Jamuna river by the construction and maintenance of improved river bank protection works which would protect urban & Semi urban areas of Maizbari, Meghai, Bahuka and adjacent areas of Kazipur & Sirajganj Sadar Upazila town's built-up from major damaged and cumulative destruction:



However, the specific objectives and targets of the Project are as follows:

- To sustain the agricultural land and livelihoods by mitigating the risk of river bank erosion and Protection of flood control embankment from being eroded.
- To contribute poverty alleviation by ensuring that future economic benefits are achieved.
- To improve social and economic conditions of the destitute families fallen a victim to river bank erosion.
- To provide substantial employment opportunities and cash income for landless, poor and vulnerable people, both women and men, during the construction period to provide a stable environment for development in the areas adjacent to the river bank.

1.4 Project revision with reasons:

The Project entitled "Protection of Right bank of Jamuna River at Sirajganj Sadar and Kazipur Upazila in Sirajganj District" was approved in ECNEC meeting held on 07-12-2010. The original approved DPP cost was Tk. 28540.20 lakh. The Ministry of Water Resources accorded administrative Approval of the original DPP vide their memo No. 42.041.014.01. 00.005. 2010-23 dated 08-02-2011.

The project was planned to implement according to ADP in the fiscal Year 2010-2011, 2011-2012 and 2012-2013. The budget allocation for the project in Annual Development Programme (ADP) for the fiscal year 2010-2011, 2011-2012 and 2012-2013 were Tk. 513.79 lakh, Tk. 1674.00 lakh and Tk. 4349.98 lakh respectively instead of the year wise financial target in DPP for the same fiscal years of Tk. 6187.46 lakh, Tk. 11222.30 lakh and Tk. 11130.44 lakh respectively. The total budget allocations in Annual Development Programme (ADP) during the Project period was only Tk. 6537.77 lakh instead of the DPP cost of Tk. 28540.20 lakh. Due to insufficient budget allocation, the project could not be completed within the stipulated time as targeted in the original DPP i.e., October, 2010 to June, 2013.

Despite of insufficient budget allocation and some other adverse situations in implementation of the physical works, contract packages no. WDS-01, WDS-02, WDS-03 and WDS-05 were completed in time. But contract of the package no. WDS-04, WDS-11, WDS-12, WDS-14, WDS-15, WDS-16 and WDS-17 had been terminated and retendered later on. The package no. WDS-06, WDS-07, WDS-13, WDS-18, WDS-19 & WDS-20 were completed in the extended time beyond the original project completion time i.e., June, 2013.



Due to devastating flood in 2011, 2012, 2013 and 2014, river morphology in the project area was significantly changed. The bank line of the river had been shifted by this time alongside creation of some new oblique channels. The depth of the flowing channel near the project's bank line also increased. For this the design of the different packages had to review which caused additional/increased quantity of works. The important thing is that the Schedule of Rates for most of the items/works had been increased for the works implemented later on. All these stated above are the main reasons for revision of the project having an extended project completion period upto June, 2017 and a revised DPP cost of Tk. 42081.73. lakh. But due to severe morphological change and due to oblique flow at the right bank of Jamuna River at Simla Bahuka area created scouring and back wheeling in the flood season of 2014 and 2015 the package No. WDS-18 was partial damaged which was constructed during 2011-2012 to 2013-2014. Also due to severe morphological change and due to oblique flow at the right bank of Jamuna river at Meghai area created scouring and back wheeling in flood season of 2016 the package No. WDS-10 was partial damaged which was constructed during 2014-2015 to 2015-2016. As per decision made on 8th steering committee of this project held at Water Resource Ministry on 08-06-2016. Vide memo No. 42.036.014.00.08.008.2012-275 dated 16-06-2016 a technical committee was formulated by Director General of BWDB for re-appropriation of this RDPP. The report of technical committee has approved by Director General, BWDB, vide memo No. 7509 dated 01-12-2016. As per technical committee report the implemented Package No. WDS-18, WDS-10 was partial damaged due to flood in 2014-2015 and 2016 due to severe morphological change at Simla-Bahuka area and Meghai area which created severe oblique flow and back wheeling. For this severe oblique flow and back wheeling the river bed level was gone to below the approved design sustainable level. For this reason the package No. WDS-18 and WDS-10 has partial damaged. The Technical committee recommended for completion of this packages WDS-18 and WDS-10 by revised approved design by approval of re-appropriation of this project.

As per above situation, decisions of Steering Committee and Technical Committee need urgently for completion of all packages under the project is barely essential to ensure the project benefits. Otherwise the project area and the implemented work may be damaged and resulting the damage of Brahmaputra Right Flood Embankment (BRE) and vulnerable public private properties. Due to above mentioned reason the re-appropriation of 1st Revised DPP was approved by competent authority.



2. Rationale of the Project in respect of concept, design, location and Timing.

Simla Bahuka area of Sirajganj Sadar Upazila and Meghai, Maizbari area of Kazipur Upazila in the District of Sirajganj was under threat of Bank erosion of the Jamuna River. Most of the inhabitants of these area were already shifted their houses several times due to erosion problems. Local people became frustrated. The socio- economic condition was deteriorating day by day. There was no other way to stop the erosion except Bank revetment works because many previously constructed structures (Meghai Spur-1, Meghai Spur-2, Meghai Spur-3, Shuvogacha Spur, Simla Spur-1) failed to tackle the erosion problem. It was also necessary to protect the existing Brahmaputra Right Bank flood control Embankment (BRE) from devastating erosion of the river Jamuna.

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

Project Identification

The project is located along the right bank of Jamuna river.

Project Preparation

Due to the severe erosion problem in Simla Bahuka area of Sirajganj Sadar Upazila and Meghai, Maizbari of Kazipur Upazila and adjacent areas in Sirajganj District, many cultivable land, villages, infrastructures are engulfed in Jamuna river. The BRE flood control embankment has been breached several times due to erosion of Jamuna River. To mitigate the erosion problem of the area and to save the BRE flood control embankment the project is inevitable.

Appraisal : CEGIS provided a study on the Project area in 2010.

- **Credit Negotiation** : Not Applicable.
- **Credit Agreement** : Not Applicable.
- **Credit Effectiveness** : Not Applicable.
- **Loan Disbursement** : Not Applicable.
- **Loan Conditionalities** : Not Applicable.

- **Project Approval** : The Project was approved on 07-12-2010 and subsequent revision was approved on 19-05-2015.

- **Others (if any)** : Nil



4. Analysis of the Post-Implementation situation and result of the project :

- 4.1 Whether the beneficiaries of the project have clear knowledge about the Target/ Objectives of the project.: Yes
- 4.2 **Programme for use of created-facilities of the project:**
The stake holders are directly taking advantages of the created facilities of the project.
- 4.3 **O & M programme of the project.:**
Post Project recurrent O&M works will be arranged from the regular O&M allocation.
- 4.4 **Impact of the project -**
4.4.1 Direct :
- Protection of houses, educational institutions, mosques, roads, agricultural land from river bank erosion.
 - Protection of BRE flood control embankment from being breached due to erosion.
- 4.4.2 Indirect:**
- Safety of human livelihood and properties.
 - Improvement of socio-economic condition.
 -
- 4.5 **Transfer of Technology and Institutional Building through the project:**
Not Applicable
- 4.6 **Employment generation through the project.:**
A large number of skilled/unskilled workers were employed during construction period.
- 4.7 **Possibility of Self employment :**
There are possibilities of self employment as existing commercial and business centres are protected from river bank erosion.
- 4.8 **Possibility of women-employment opportunity:**
Yes, there is possibility of women-employment through the project.
- Women's participation in development: Yes**
- 4.9 **Probable Impact on Socio-Economic activity. :**
By protecting the river bank erosion, various infrastructures are saved from the erosion. As a result socio-economic balance in the locality is enhanced.
- 4.10 **Impact on environment :**
Environmental enhancement is achieved through implementation of the project.
- 4.11 **Sustainability of the project:**
The project is sustainable but requires periodic maintenance.



- 4.12 **Contribution to poverty alleviation/reduction :**
- Huge public and private properties dispersed around the said erosion prone area with approximate total worth of Tk. 43720.00 lakh is saved from river bank erosion by the implementation of the project.
 - It generated employment for skilled/unskilled workers during construction period and also in annual O&M phase. Also better employment access in business sector is enhanced.
 - Natural security against river bank erosion is restored.
- 4.13 **Opinion of the public representatives, local elite, local administration, teachers, religious leaders, women's representatives etc.**
Positive remarks regarding the project.
- 4.14 **Contribution of Micro-credit programmes and Comments on overlapping with any NGO activities.:**
Not Applicable.
5. **Problems encountered during Implementation (with duration & steps taken to remove those)**
- | | |
|---|-------------------------------------|
| 5.1 Project Management | 5.11 Design formulation/approval |
| 5.2 Project Director | 5.12 Time & Cost Over-run |
| 5.3 Land Acquisition | 5.13 Project Supervision/Inspection |
| 5.4 Procurement | 5.14 Delay in Decision |
| 5.6 Contractor | 5.15 Transport |
| 5.7 Manpower | 5.16 Approval |
| 5.8 law & Order | 5.17 Others. |
| 5.9 Natural calamity | |
| 5.10 Project financing, allocation and release. | |


Due to inadequate budget allocation in compare to target, the project was delayed to complete. After the execution of major part of the protective work in Megai and maizbari Area (WDS-01, WDS-02, WDS-03, WDS-04, WDS-05, WDS-07) a new char was formed adjacent to protective work. Due to severe erosion problem, fund crisis and due to non availability of BWDB's own accured land, it was very difficult to stock C.C. block as stock pile, some packages of work delayed and terminated and necessary action taken.

6. Remarks & Recommendations of the Project Director :

The river Jamuna is the most erosion prone river in Bangladesh. Simla Bahuka area of Sirajganj Sadar upzila and Meghai Maizbari area of Kazipur upzila were seriously affected by the right bank erosion of the river. Many people became helpless and dispersed. The landless people passed inhuman life. Many Government and Non-Government establishments, educational institutions, mosques, roads and agricultural land had been engulfed in the river. To protect the further erosion of Simla Bahuka area of Sirajganj sadar upzila and Meghai Maizbari area of Kazipur upzila from the right bank erosion, "Protection of Right Bank of the Jamuna at Sirajganj Sadar and Kazipur upzila in Sirajganj district" project was approved in ECNEC on 07-12-2010. Further 1st Revised DPP has been approved by ECNEC on 19-05-2015. After the successful implementation of this project, the project area has been protected from severe right bank erosion of the river Jamuna. The safety of flood control embankment along the right bank of Jamuna River (Brahmaputra Right Embankment) has been increased. The socio-economic condition of the people has been improved. Scope of new jobs & works have been created. The safety of human livelihood and properties have also improved. The project will also contribute to attain national

self sufficiency in food grains. Proper monitoring and regular maintenance of the revetment works and other necessary components should be continued to ensure the sustainability of the project. Otherwise the benefit of the project might be hampered.

Date : 14.09.2017


Signature and seal of the Project Director/Manager
BABUL CHANDRA SHIL
Superintending Engineer
Bogra O & M Circle
BWDB, Bogra.

7. Remarks/Comments of Agency Head

The project area covering semi-urban and urban areas of Sirajganj Sadar & Kazipur Upazila of Sirajganj district have been protected from bank erosion of Jamuna River through this project. About 72 sq.km land have been protected from river bank erosion & thus approximately 248000 people have got benefitted. So, objective wise, this is a successful project.

Date :


(Md. Mahfuzur Rahman)
Director General
Signature and Seal
BWDB, Dhaka.

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

Date :

Signature and Seal

