

# BANGLADESH WATER DEVELOPMENT BOARD



## PROJECT COMPLETION REPORT: IMED-04/2003 (REVISED)

Name of the Project: RIVER BANK PROTECTION WORKS ON BOTH BANK OF SANGU & CHANDKHALI RIVER IN CHANDANAISH AND SATKANIA UPAZILLAS OF CHITTAGONG DISTRICT

PROJECT PERIOD: APRIL 2015 TO JUNE 2019

Division : Chittagong O&M Division, BWDB, Chittagong.  
Circle : Chittagong O&M Circle, BWDB, Chittagong.  
Zone : South-Eastern Zone, BWDB, Chittagong.

**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** : River Bank Protection works on both bank of Sangu & Chandkhali river in Chandanaish and Satkania Upazillas of Chittagong District.
- 02. Administrative Ministry/Division** : Ministry of Water Resources
- 03. Executing Agency** : Bangladesh Water Development Board (BWDB)
- 04. Location of the Project** : Upazilla: Chandanaish and Satkania, District: Chittagong.
- 05. Objective of the Project** : a) To protect valuable agricultural and commercial land of Chandanaish and Satkania Upazilla from the erosion of Sangu and Chandkhali river in Chittagong district.  
b) To protect the valuable government and private properties such as Homestead, Mosque/Religious establishment, educational institutions (such as Primary school, High school, Madrasa), Health center, Growth center, Bazar, rural road, HBB road, metalled road, bridge, culvert, Power transmission line etc. from the devastating erosion of the river Sangu and Chandkhali through controlling river bed scour.
- 06. Estimated Cost** :

(In-lakh-Taka)

	Original	1 <sup>st</sup> Revision	Re-Appropriation
(a) Total	13801.39	15056.49	15056.49
(b) Taka	13801.39	15056.49	15056.49
(c) Foreign Currency	-	-	-
(d) Project Aid	-	-	-
(e) RPA	-	-	-

- 07. Date of Approval** :
- |  | PCP | DPP        |
|--|-----|------------|
| (a) Original                             | -   | 09-08-2015 |
| (b) 1 <sup>st</sup> Revision             | -   | 21-08-2016 |
| (c) Re-Appropriation                     | -   | 31-10-2017 |
| (d) Time Extension without cost increase | -   | 06-06-2018 |

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**08. Implementation Period :**

	Date of Commencement	Date of Completion
(a) Original	April'2015	June'2018
(b) 1 <sup>st</sup> Revision	April'2015	June'2018
(c) Re-Appropriation	April'2015	June'2018
(d) Time Extension without cost increase	April'2015	June'2019

**9. Financing Arrangement (Source-wise):**

**9.1 Status of Loan/Grant:**

**a) Foreign Financing : Not Applicable**

Source (s)	Currency as per Agreement	Amount in US \$ (Million)	Nature (Loan/Grant/supplier's/credit)	Date of Agreement	Date of Effectiveness	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
15056.49	-	15056.49	-

**9.2 Utilization of Project Aid: (Source wise): Not Applicable**

(In million)

Source (s)	Total Amount		Actual Expenditure		Unutilized Amount	
	In US \$	In Local Currency	In US \$	In Local Currency	In US \$	In Local Currency
1	2	3	4	5	6	7
N/A						

**9.3 Re-imbursible Project Aid (RPA): Not Applicable**

(In lakh Taka)

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

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## 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
April'2015 to June'2018	April'2015 to June'2019	April'2015 to June'2019	30.77%	3 new packages were tendered after project revision on 31-10-2017. Hence, allocated project period was increased by 1(One) year.

### 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
<b>TOTAL</b>	13801.39	15056.49	13851.42	0.36%	-
<b>TAKA</b>	13801.39	15056.49	13851.42	0.36%	-
<b>PA</b>	0.00	0.00	0.00	0.00	-

### 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 manpower of the implementing agency were deployed during execution of the project.					
Staff(s)						
Total :						

### 04. Training of Project Personnel (Foreign/Local): Not Applicable

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
No training has been provided, as there was no provision for training for project personnel.					

a. Foreign

b. Local

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

(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
<b>A. Revenue Component:</b>						
Fuel & Lubricant	1 Item	7.00	L.S	6.95	LS (99.29%)	<b>Financial savings of 5.98-lacs due to present demand of Revenue component</b>
Printing & Publication	1 Item	5.00	L.S	2.36	LS (47.20%)	
Stationary, seal and stamps	1 Item	5.00	L.S	4.95	LS (99.00%)	
Survey & Investigation	1 Item	5.00	L.S	5.00	LS (100.00%)	
Honorarium of Different Committee	1 Item	2.00	L.S	1.98	LS (99.00%)	
Honorarium for Mid-term Evaluation Committee	1 Item	8.00	L.S	6.90	LS (86.25%)	
Honorarium for Progress Monitoring Committee	1 Item	2.00	L.S	0.00	LS (0.00%)	
Repair of existing Vehicles-Jeep 4 Nos., Motor Cycle-1 No.	Nos.	4.00	5	3.95	LS (88.25%)	
Repair of Computer, Photocopier UPS & other Office equipment.	1 Item	2.00	L.S	1.93	LS (96.50%)	
<b>Sub Total (A) :</b>		<b>40.00</b>		<b>34.02</b>		
<b>B. Capital Component</b>						
<b>Acquisition of Assets :</b>						
-Purchase of Jeep; 2477 C.C.-1 No.(5 Doors, Diesel; Manufactured by PRAGATI)	Nos.	72.50	1	70.57	1 (97.33%)	<b>Financial savings of 1.93 lacs in Jeep purchase</b>
-Purchase of Levelling machine (Auto Focus) with stand & staff-2 Nos.	Nos.	1.50	2	1.50	2 (100.00%)	
-Purchase of Brand new Computer (Desktop & Laptop) with Laser Printer & accessories- 4 Nos. (Laptop-2Nos, Desktop Computer-2Nos, Laser Printer-2Nos & U.P.S.-2 nos.)	Nos.	3.50	4	3.50	4 (100.00%)	
-Purchase of Photocopier machine- 2 nos. (for: Planning Commission- 1 no., BWDB- 1 no.)	Nos.	3.90	2	3.90	2 (100.00%)	
-Purchase of Scanner- 1 no. (For Planning Commission)	Nos.	0.10	1	0.10	1 (100.00%)	
-Purchase of Multimedia Projector- 1 no.(For Planning Commission)	Nos.	1.50	1	1.50	1 (100.00%)	
-Purchase of Digital Camera- 1 No.	Nos.	0.25	1	0.25	1 (100.00%)	

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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
<b>Construction works :</b>						
River Bank Protective Works on the R/B of Sangu River (In between 1.540 to Km 19.710=5.450 Km)	Km	8052.85	5.450 KM	7736.47	5.450 KM (100%)	Financial savings as Contract value was less than DPP provision
River Bank Protective Works on the L/B of Sangu River (In between 1.640 to Km 13.300=4.100 Km)	Km	5469.18	4.100 KM	4789.73	4.100 KM (100%)	
River Bank Protective Works on the R/B of Chandkhali River (In between 0.063 to Km 2.500=1.200Km)	Km	1238.96	1.200 KM	1139.89	1.200 KM (100%)	
-Renovation & repair of Rest House, Residences & other Engineer's Facilities.	L.S	70.00	L.S	69.99	LS (100%)	
<b>Sub Total (B) :</b>		<b>14914.24</b>		<b>13817.40</b>	<b>100%</b>	
<b>Total Cost (A+B):</b>		<b>14954.24</b>		<b>13851.42</b>	<b>100%</b>	
<b>C. Physical Contingency</b>	<b>LS</b>	<b>23.12</b>	<b>LS</b>	<b>0.00</b>	<b>0.00</b>	
<b>D. Price Contingency</b>	<b>LS</b>	<b>79.13</b>	<b>LS</b>	<b>0.00</b>	<b>0.00</b>	
<b>Grand Total (A+B+C+D):</b>		<b>15056.49</b>	<b>100.00%</b>	<b>13851.42</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
Mr. Md. Siddiqur Rahman, Superintending Engineer Scale: 50000-71200 Tk	Full Time	-	Yes	April 2015	July 2018	-
Mr. Zahir Uddin Ahmed Superintending Engineer Scale: 50000-71200 Tk	Full Time	-	Yes	July 2018	February 2019	-
Mr. Shibendu Khastagir Superintending Engineer Scale: 50000-71200 Tk	Full Time	-	Yes	February 2019	Till Date	-



**07. Procurement of Transport (in Nos.): 1 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
Mitsubishi Pajero (CR-45) Sport Jeep, Long Wheel Base, 5-Door, 7-Seat, Diesel Engine 4-wd, 4-Cylinder, Model code no- KH4WGNMZR, Horse Power-100 KW (136 ps)/3500 rpm, Right handed drive, Hardtop (Metal), 2477 CC, Electrical System-12 Volt, Wheel base-2800 mm, Power Steering, Extra Wheel-1no, with other tools, Thiland/Japan origin, Colour-Brown, included in Bangladesh 2016	1	24-06-16	--	24-06-16	--	

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**08. Procurement of Goods, Works and Consultancy Services:**

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

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Proposal Cost (in 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) Bank Protection work on the right bank of Chandkhali Khal from km. 1.710 to km. 1.960 (=250.00m.) and km. 2.000 to km. 2.150 (=150.00m) total= 400.00m. at Keshua Village of Barma U.P. in Chandanaish Upazila, Dist: Chittagong under the Project "River Bank Protection work on the both banks of Sangu & Chandkhali river in Chandanaish and Satkania Upazilas of Chittagong District" during the year 2015-2016.	226.20	226.20	18-10-15	21-01-16	21-06-16	30-11-16
2) Bank Protection work on the Right Bank of Sangu River at Jafrabad Village in U.P:- Bailtali from km. 10.250 to km. 10.900 (=650.00m.) in Chandanaish Upazilla under the Project River Bank Protection Work on the both bank of Sangu & Chandkhali river in Chandanaish & Satkania Upazillas of Chittagong District during the year 2015-2016.	846.10	846.10	28-10-15	31-01-16	31-12-17	12-06-18
3) Bank Protection work on the right bank of Sangu river at Char Barma village in U.P.Barma from km.3.356 to km. 4.356 (=1000.00m.) in Chandanish Upazila under the Project River Bank Protection Work on the both bank of Sangu & Chandkhali river in Chandanaish & Satkania Upazillas of Chittagong District during the year 2015-2016.	1589.75	1589.74	18-11-15	01-06-16	31-12-17	07-12-17
4) Bank Protection work on the right bank of Sangu river at Char Khagaria (Bhor Bazar) village in U.P.Khagaria from km. 12.800 to km. 13.300 (=500.00m.) in Satkania Upazila under the Project River Bank Protection Work on the both bank of Sangu & Chandkhali river in Chandanaish & Satkania Upazillas of Chittagong District during the year 2015-2016.	756.47	756.47	18-11-15	01-06-16	31-12-17	31-12-18

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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
5) Bank Protection work on the right bank of Sangu river at Beanbazar of Dharmapur U.P. from km. 6.080 to km. 6.580 (=500.00m.) in Satkania Upazila under the Project River Bank Protection Work on the both bank of Sangu & Chandkhali river in Chandanaish & Satkania Upazillas of Chittagong District during the year 2015-2016.	580.30	580.29	27-01-16	24-05-16	31-12-17	30-06-18
6) Bank Protection work on the right bank of Sangu river from km. 19.060 to km. 19.360 (=300.00m.) near Dhopachari bazar of Dhopachari U.P. in Upazila-Chandanaish, Dist: Chittagong under the Project River Bank Protection Work on the both bank of Sangu & Chandkhali river in Chandanaish & Satkania Upazillas of Chittagong District during the year 2015-2016.	354.98	354.98	07-04-16	07-12-16	10-06-17	28-06-17
7) Bank Protection work on the right bank of Sangu river from km. 12.000 to km. 12.300 (=300.00m.) at Purangar of Bazalia U.P. in Upazila-Satkania, Dist: Chittagong under the Project River Bank Protection Work on the both bank of Sangu & Chandkhali river in Chandanaish & Satkania Upazillas of Chittagong District during the year 2015-2016.	295.50	295.49	27-01-16	22-06-16	31-12-17	11-01-18
8) Bank Protection work on the right bank of Sangu river from km. 9.500 to km. 10.500 (=1000.00m.) at Bomanghat of Bazalia U.P. in Upazila-Satkania, Dist: Chittagong under the Project River Bank Protection Work on the both bank of Sangu & Chandkhali river in Chandanaish & Satkania Upazillas of Chittagong District during the year 2015-2016.	1024.84	1024.83	24-12-15	06-05-16	31-12-17	30-06-18

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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
9) Bank Protection work on the right bank of Sangu river from km. 1.540 to km. 3.040 (=1500.00m.) at Chagachar village of Dohazari U.P. in Upazila-Chandanaish, Dist: Chittagong under the Project River Bank Protection Work on the both bank of Sangu & Chandkhali river in Chandanaish & Satkania Upazillas of Chittagong District during the year 2015-2016.	2165.69	2165.69	04-04-16	29-05-16	31-12-17	15-05-18
10) Bank Protection work on the right bank of Sangu river from km.7.890 to km. 8.250 (=360.00m.) at Dwippara of Baitalii U.P. in Upazila-Chandanaish, Dist: Chittagong under the Project River Bank Protection Work on the both bank of Sangu & Chandkhali river in Chandanaish & Satkania Upazillas of Chittagong District during the year 2015-2016.	596.83	596.83	04-01-16	05-03-16	31-12-17	31-12-18
11) Bank Protection work on the left bank of Sangu river from km. 1.640 to km. 2.440(=800.00m.) at Katgarh of Kaliaish U.P. in Satkania Upazila under the Project "River Bank Protection work on the both banks of Sangu & Chandkhali river in Chandanaish and Satkania Upazilas of Chittagong District" during the year 2015-2016.	1038.53	1038.53	04-01-16	05-03-16	31-12-17	15-05-18
12) Bank Protection work on the right bank of Chandkhali Khal from km. 0.063 to km. 0.563 (=500.00m.) at Keshua Village of Barma U.P. in Chandanaish Upazila, Dist: Chittagong under the Project "River Bank Protection work on the both banks of Sangu & Chandkhali river in Chandanaish and Satkania Upazilas of Chittagong District" during the year 2015-2016.	530.02	530.02	29-02-16	06-08-16	31-12-17	05-04-18

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
13) Bank Protection work on the left bank of Sangu river from KM 3.300 to KM 3.800=500.00m. at Maengapara of Kaliaish U.P in Upazila-Satkania, Dist: Chittagong under the project "River Bank Protection work on the both banks of Sangu & Chandkhali river in Chandanaish and Satkania Upazillas of Chittagong District" during the year 2015-2016.	713.63	713.63	29-02-16	06-08-16	31-12-17	15-05-18
14) Bank Protection work on the right bank of Sangu river at Dwippara in U.P.:Baitali from KM 7.500 to KM 7.800 (=300.00m.) and on the right bank of Chandkhali Khal at Keshua village in U.P.: Barama from KM 2.150 to KM 2.450(=300.00m.) in Upazila-Chandanaish, Dist:Chittagong, total= 600.00m. under the Project "River Bank Protection work on the both banks of Sangu and Chandkhali river in Chandanaish & Satkania Upazilla(s) of Chittagong District" during the year 2017-2018.	1067.74	889.57	10-09-17	22-11-17	20-06-18	15-01-19
15) Bank Protection work on the left bank of Sangu river at Biswashat from KM 5.280 to KM 5.680 (=400.00m.) and at Chowdhurypara from KM 5.680 to KM 6.080 (=400.00m.) total =800.00m. of Dharmapur U.P. in Satkania Upazila under the Project "River Bank Protection work on the both banks of Sangu and Chandkhali river in Chandanaish & Satkania Upazilla(s) of Chittagong District" during the year 2017-2018.	1527.53	1096.27	10-09-17	23-11-17	20-06-18	30-05-19

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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
16) Bank Protection work on the right bank of Sangu river from KM 5.380 to KM 5.730 (350m) at Diarkul in Dohazari U P, from KM 15.200 to KM 15.340 (=140.00m.) at Chiring Ghata, from KM 19.500 to KM 19.700 (=200.00m.) at Shankher Kul and from KM 19.800 to KM 19.950 (=150.00m.) at Reik Ghata of Dhopachari U.P. in Upazila-Chandanaish and on the left bank of Sangu river from KM 13.000 to KM 13.200 (=200.00m.) at Jaliya Para of Purangarh U.P in Upazila-Satkania (total = 1040m.) under the Project "River Bank Protection work on the both banks of Sangu and Chandkhali river in Chandanaish & Satkania Upazilla(s) of Chittagong District" during the year 2017-2018.	1526.68	1344.96	10-09-17	30-11-17	20-06-18	20-04-19

**8.2 Use of Project Consultant (s) (Foreign/Local): Not Applicable**

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

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
-Purchase of Levelling machine (Auto Focus) with stand & staff	2	2 (01-04-2016)	01-04-2016	-	-	-
Purchase of Brand new Computer (Desktop & Laptop) with Laser Printer & accessories	4	4 (01-04-2016)	01-04-2016	-	-	-
Purchase of Photocopier machine	2	2 (30-06-2016)	30-06-2016	-	-	-
Purchase of Scanner	1	1 (30-06-2016)	30-06-2016	-	-	Purchased for Planning Commission as mentioned in DPP
Purchase of Multimedia Projector	1	1 (30-06-2016)		-	-	
Purchase of Digital Camera	1	1 (30-06-2016)	30-06-2016	-	-	-

**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
2014-15	3036.78	3036.78		22.00%	-	-		
2015-16	5979.46	5979.46		43.33%	792.75	792.75		5.27%
2016-17	3993.86	3993.86		28.93%	9000.00	9000.00		59.77%
2017-18	791.29	791.29		5.73%	5263.74	5263.74		34.96%
2018-19	-	-		-	-	-		
<b>Total:</b>	<b>13801.3</b>	<b>13801.39</b>		<b>100.00%</b>	<b>15056.49</b>	<b>15056.49</b>		<b>100.00%</b>
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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
2014-15	-								
2015-16	800.00	800.00		5.41	800.00	792.75	792.75		5.41
2016-17	9000.00	9000.00		60.83	9000.00	8479.41	8479.41		60.83
2017-18	3200.00	3200.00		21.63	3200.00	3015.60	3015.60		21.63
2018-19	1796.00	1796.00		12.14	1687.27	1563.66	1563.66		12.14
<b>Total</b>	<b>14796.0</b>	<b>14796.0</b>		<b>100.00</b>	<b>14687.27</b>	<b>13851.42</b>	<b>13851.42</b>		<b>100.00</b>

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

Objectives as per DPP	Actual achievement	Reasons for shortfall, if any
To protect valuable agricultural and commercial land of Chandanaish and Satkania Upazilla from the erosion of Sangu and Chandkhali river in Chittagong district.	10.75 Km vulnerable Sangu and Chandkhali river bank have been protected from erosion.	No appreciable Shortfall.
To protect the valuable government and private properties such as Homestead, Mosque/Religious establishment, educational institutions (such as Primary school, High school, Madrasa), Health center, Growth center, Bazar, rural road, HBB road, metalled road, bridge, culvert, Power transmission line etc. from the devastating erosion of the river Sangu and Chandkhali through controlling river bed scour.	Thousands of Houses, Mosques/Religious establishments, educational institutions, Health Centers, Bazar, Roads, Power Transmission lines have been protected from the devastating erosion of Sangu and Chandkhali rivers.	

## 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)
Bridges	Nos.	22	22
Culverts	Nos.	107	107
Pucca Shop	Nos.	817	817
Kaccha Shop	Nos.	2319	2319
Semi Pucca Shop	Nos.	543	543
Pucca Mosque/Temple	Nos.	219	219
Pucca School Building	Nos.	32	32
Kacha Road	Km	973.00	973.00
Brick Soling Road	Km	109.00	109.00
Pucca Road	Km	54.00	54.00
Kacha Home Shed	Nos	7154	7154
Semi Pucca Home Shed	Nos	1065	1065
Pucca Home Shed	Nos	800	800
Pucca School/Community Clinic	Nos	19	19
Madrasha Building (Pucca)	Nos	9	9
Agricultural Land	Ha	1000	1000
Saw Mills	Nos	41	41
Union Parisad (U.P) Building	Nos	8	8
Hospital/Health Centre	Nos	2	2

### 02. Cost / Benefit:

Item	Estimated	Actual
<b>(1) Benefit cost ratio of the project</b> (i) Financial (ii) Economic	(i) 3.25 : 1.00 (ii) 3.82 : 1.00	Will be evaluated later by concerned Directorate of BWDB & IMED.
<b>(2) Internal Rate of Return</b> (i) Financial (ii) Economic	(i) 37.54% (ii) 43.34%	

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

The estimated and actual benefits are identical as the entire output targeted has been achieved.

✓

## **F. MONITORING AND AUDITING**

### **0.1 Monitoring:**

<b>Name &amp; designation of the inspecting official</b>	<b>Date of Inspection</b>	<b>Identified Problems</b>	<b>Recommendations</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>Ministry/Agency:</b>			
Montu Kumar Joint Chief, MOWR	24-03-2017	-	To revise the project according to the current needs if required and complete the project within allocated time.
Abdul Azim Chowdhury Joint Chief, Planning Commission			
Begum Sazida Khatun Deputy Chief, MOWR			
Md. Faridul Islam Senior Assistant Chief, Planning Commission			
Md Tanvir Akkas, Assistant Director IMED			
Kazi Shakhawat Hossain DS, MOWR	25-09-2017	-	To increase the speed of implementation of work.
K.M Ali Azam Additional Secretary, PM office	24-12-2017	-	To increase the speed of implementation of work.
Md Yusuf Additional Secretary	26-01-2018	-	To implement the work according to specifications.
Kazi Md Abdur Rahman DS,MOWR	02-11-2018	-	To complete the project within allocated time period.
<b>IMED:</b>			
Md Afzol Hossain Director, Monitoring and Evaluation Sector-4	22-12-2016	-	To increase the speed of work.
Md Afzol Hossain Director, Monitoring and Evaluation Sector-4	06-04-2018	-	To increase the time period of project by 1(One) year.
Md Mahmudul Hassan Assistant Director, Monitoring and Evaluation Sector-4	01-11-2018	-	To implement the work according to technical specification and design.
Lasmi Chakma Assistant Director, Monitoring and Evaluation Sector-4	16-01-2019	-	To complete the project within allocated time period.





## 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
2015-16	04-08-2019	No objection found	
2016-17			
2017-18			
2018-19		Not yet conducted	
		Not yet conducted	

### 2.2. External Audit:

Audit period	Date of submission of Audit Report	Major findings/ objections	Whether objections Resolved or not.
1	2	3	4
2015-16	17-03-2019	Objections regarding time extension, labour charge for dumping etc	Not Resolved yet (Broad Sheet reply given)
2016-17			
2017-18			
2018-19		Not yet conducted	

*m*

## **G. DESCRIPTIVE REPORT**

### **1. General Observations/Remarks of the Project on:**

#### **1.1 Background:**

Bangladesh is a riverine country. The ocenic storm "KOMEN" during July'2015 and repeated heavy rainfall in the period of June through August damaged severely the banks of Sangu and Chandkhali rivers. At Char Barama, Bean Bazar, Katgarh, Chagachar areas, a number of villages have been damaged into debris. At all these locations, bank protection works were urgently required to save human lives and assets of these areas. An integrated approach was required to protect the people of Char Barma, Dharmapur, Katgarh, Chagachar, Keshua etc unions. Hence, a DPP "River Bank Protection work on the both banks of Sangu and Chandkhali river in Chandanaish and Satkania Upazillas of Chittagong District" was prepared and submitted. The project included 10.75 Km bank protection work in Sangu and Chandkhali river to protect valuable properties, lands and households of rural people who have been in continuous fight with nature.

Previously, various bank protection works were undertaken under "Operation and Maintenance" Budget by Bangladesh Water Development Board, Chittagong. But those were taken in a small scale due to budget constraints.

The ADP Project included-

- a) 5.450 Km Bank protection work on the right bank of Sangu River
- b) 4.500 Km Bank protection work on the left bank of Sangu River
- c) 1.200 Km Bank protection work on Chandkhali 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 in between normal water flow and surges of inflow during monsoon & post-monsoon period in each year. The monsoon discharge of the major rivers is so large that there is recurrence of floods every year. Sometimes it becomes very severe and causes immense damages impacted by occurrence of devastating river erosion. This has significant social and economic impacts. The loss of land, crop and property has led to landlessness and impoverishment of thousands of dwellers living near bank lines. The belligerence of river bank erosion has caused for landlessness and pauperization of peoples 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 centres etc. The issue has been duly emphasized in the National Town Plan. The National Water Policy emphasized for protection of strategic geographic locations & important economic zones from devastating erosions of different mighty rivers. National Water Management Plan also emphasized on the development and management of water resources with appropriate measures for river erosion mitigation to minimize environmental degradation.

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 banks have been stressed for phased implementation for execution of river bank protection programme at the apex level.

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 bank protection work has been formulated.



### 1.3 Objectives:

The objectives are:

- To protect valuable agricultural and commercial land of Chandanaish and Satkania Upazilla from the erosion of Sangu and Chandkhali river in Chittagong district.

- To protect the valuable government and private properties such as Homestead, Mosque/Religious establishment, educational institutions (such as Primary school, High school, Madrasa), Health center, Growth center, Bazar, rural road, HBB road, metalled road, bridge, culvert, Power transmission line etc. from the devastating erosion of the river Sangu and Chandkhali through controlling river bed scour.

### 1.4 Project revision with reasons:

The project named "River Bank Protection work on both bank of Sangu & Chandkhali River in Chandanaish and Satkania Upazillas of Chittagong District" has been approved in ECNEC meeting held on 25-06-2015. The estimated cost of the original approved DPP was BDT 13,801.39 lac. The Government Order (GO) of the Project (DPP) has been issued by the Planning commission vide Memo No.20.00.0000.411.14.018.15-260 dated: 09-08-2015. The administrative approval of the Project has been issued by the Ministry of Water Resources vide Memo No. 42.00.0000.043.014.005.2011-104 dated 19-08-2015. The Project was included in the ADP for 2015-2016 with budget allocation of BDT 150.00 lakh. The 1<sup>st</sup> Revision of the project has been done on 21-04-2016 due to changes in the BWDB schedule formulated to combat rising prices of construction materials. The project cost after 1<sup>st</sup> revision became BDT 15056.49 lac. During the implementation period of the Project new areas were more severely affected by bank erosion while some savings were made as the contract value was less than the estimated cost. Hence, Inter-Item cost adjustment was done. After Inter-Item cost adjustment 3(Three) tender packages were floated and accordingly work-orders were issued on 23-11-2017. However, as these physical works were time consuming, IMED recommended for 1(One) year time extension. Accordingly, Ministry of Water Resources approved the time extension.

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

Alluvial lands of Bangladesh is a complex and dynamic thrust of nature due to strong onrush of water and major variation in between normal water flow and surges of inflow during monsoon & post-monsoon period in each year. The monsoon discharge of the major rivers is so large that there is recurrence of floods every year. Sometimes it become very severe and causes immense damages impacted by occurrence of devastating river erosion. This has significant social and economic impacts. The loss of land, crop and property has led to landlessness and impoverishment of thousands of dwellers living within bank lines. 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 centres etc. The issue has been duly emphasized in the National Town Plan. The National Water Policy emphasized for protection of strategic geographic locations & important economic zones from devastating erosions of 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 banks 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 also 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 bank protection work was formulated



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

#### **Project Identification:**

The river banks of Sangu and Chandkhali rivers regularly faces extreme erosion and BWDB previously executed bank protective work to protect the people living along the river banks. However, a large scale and integrated approach was required to combat river bank erosion in these areas. A Technical committee was formed to identify the erosion prone areas. Based on the report of the Technical committee a DPP was prepared and submitted to the Planning Commission. "River Bank Protection work on the both banks of Sangu and Chandkhali Rivers in Chandanaish and Satkania Upazillas of Chittagong Distrcit" is located along the banks of Sangu and Chandkhali Rivers in Barma, Baitali, Dhopachari, Dohazari Unions of Chandanaish Upazilla and Khagaria, Dharmapur, Bazalia, Kaliaish and Puranghar Unions of Satkania Upazilla.

#### **Project Preparation:**

To protect the valuables along the banks of Sangu and Chandkhali river a project namely "River Bank Protection work on the both banks of Sangu and Chandkhali river in Chandanaish and Satkania Upazillas of Chittagong Distrcit" incorporating –

- A) 5.450 Km Bank protection work on the right bank of Sangu-River
- B) 4.500 Km Bank protection work on the left bank of Sangu-River
- C) 1.200 Km Bank protection work on Chandkhali River was developed.

#### **Appraisal:**

Appraisal and PEC was held in Planning Commission.

**Credit Negotiation:** Not Applicable.

**Credit Agreement:** Not Applicable.

**Credit Effectiveness:** Not Applicable.

**Loan Disbursement:** Not Applicable.

**Loan Conditionalities:** Not Applicable.

#### **Project Approval:**

The original project was approved on 09-08-2015, 1<sup>st</sup> Revision of the project was approved on 21-08-2016 and Re- Appropriation was approved on 31-10-2017.

**Others (if any):** Nill.

### **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 stack 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:**

To protect 10.75 Km River bank of Sangu and Chandkhali River.

**4.4.2 Indirect:**

Protect valuable agricultural and commercial land.

Improvement of socio-economic condition of the people of the project area.

**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.

**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. :**

Socio-economic balance in the locality is enhanced.

**4.10 Impact on environment :**

Environmental enhancement is achieved through the 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 :**

The rehabilitation of the existing banks cannot directly influence either the distribution of land or financial resources among the households, which determine the amount of available food grain for the different households in rural areas. However, the level of production of rice can influence per capita availability of rice by its impact on prices. Besides, more output per unit of land means greater amounts to be taken home by the sharecroppers who are at the lower side of the poverty scale.

**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.

**4.15. 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)**

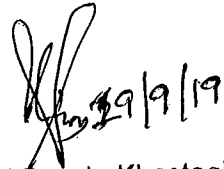
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|------|--|------|--|
| 5.1  | Project Management                         | 5.12 | Project aid disbursement and re-imbursment |
| 5.2  | Project Director                           | 5.13 | Mission of the development partners.       |
| 5.3  | Land Acquisition                           | 5.14 | Time & Cost Over-run                       |
| 5.4  | Procurement                                | 5.15 | Project Supervision/Inspection             |
| 5.5  | Consultancy                                | 5.16 | Delay in Decision                          |
| 5.6  | Contractor                                 | 5.17 | Transport                                  |
| 5.7  | Manpower                                   | 5.18 | Training                                   |
| 5.8  | law & Order                                | 5.19 | Approval                                   |
| 5.9  | Natural calamity                           | 5.20 | Others.                                    |
| 5.10 | Project financing, allocation and Release. |      |  |
| 5.11 | Design formulation/approval                |      |  |



After project was revised on 31<sup>st</sup> October, 2017 three packages were tendered to complete the remaining works. However, it took the contractors took a long time to mobilize works on the site. Hence, the project period was increased by 1(One) year to complete the works. Except time extension no significant problem arose in the project.

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

Under this project 10.75 Km river bank has been protected. Thousands of households, mosques and valuable properties have been saved. The Sangu and Chandkhali Rivers are flashy in nature. This means, huge volume of water suddenly comes from upstream of these rivers and floods the downstream portion. The sudden surge of water can damage the completed protective work. Hence, annual maintenance of these completed works is very important. This can be done under "Operation and Maintenance" budget of BWDB.

  
(Shibendu Khastagir)  
Superintending Engineer,  
Chittagong O & M Circle,  
BWDB, Chittagong.

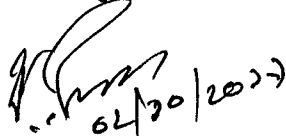
Date: .....

Signature and seal of the Project Director/Manager

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

This project reduced river bank erosion on both banks of Sangu and Chadkhali river in Chandparaish and Satkania Upazilla of Chattogram District by constructing river bank protection work. Valuable agricultural and commercial land within the project area as well as thousands of houses, religious establishments, educational institutions, roads etc has been protected from severe river bank erosion. Thus, this project can be regarded as a successful one.

Date: .....

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

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

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**Date:**

**Signature and Seal**

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