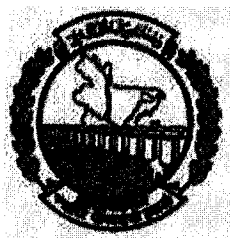


BANGLADESH WATER DEVELOPMENT BOARD



PROJECT COMPLETION REPORT: IMED-04/2003 (Revised)

Name of the Project: Bank Protection and Flood control of Halda River & Dhurong Khal in Fatikchari & Hathazari Upazila of Chattogram District.

PROJECT PERIOD: OCTOBER 2018 TO JUNE 2022.

DIVISION : Chattogram O&M Division-1, Chattogram.

CIRCLE : Chattogram O&M Circle, Chattogram.

ZONE : South-Eastern Zone, BWDB, Chattogram.

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

PROJECT COMPLETION REPORT: IMED 04/2003 (REVISED)

A. PROJECT DESCRIPTION:

- 01. Name of Project** : **Bank Protection and Flood control of Halda River & Dhurong Khal in Fatikchari & Hathazari Upazila of Chattogram District.**
- 02. Administrative Ministry/ Division** : Ministry of Water Resources (MoWR).
- 03. Executing Agency** : Bangladesh Water Development Board. (BWDB).
- 04. Location of the Project** : Upazila - Fatikchari & Hathazari, District- Chattogram.
- 05. Objectives of the Project** :
- To protect Fatikchari Municipality of Fatikchari Upazila, Nazirhat Municipality and Samitirhat, Rosangiri, Daulatpur, Suabil, Sundarpur, Paindong, Bhujpur, Narayanhat & Kanchan Nagar Union and Farhadabad Union of Hathazari Upazila from erosion of Halda River and Dhurong Khal.
 - Making Fatikchari Municipality, Nazirhat Municipality and Samitirhat, Rosangiri, Daulatpur, Suabil, Sundarpur, Paindang, Bhujpur, Narayanhat and Kanchan Nagar Union of Fatikchari Upazila and Farhadabad Union of Hathazari Upazila safe flood-free areas.
 - Minimizing environmental losses along with socio-economic losses in project areas from river erosion.
 - Eradicate poverty, improve livelihoods and create employment opportunities by ensuring stable and reliable agriculture.
 - To maintain natural flow of river through sustainable river management.
 - To protect the balance of the environment of the project area from adverse effects of the environment.

06. Estimated Cost:

(In Lakh Taka)

	Original	Latest Revised
a) Total	15676.90	-
b) Taka	15676.90	-
c) Foreign Currency	-	-
d) Project Aid	-	-
e) RPA	-	-

07. Date of Approval :

PCP	PP
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- a) Original : 02-10-2018
- b) No cost time extension : 28-02-2022
- c) Inter Item Cost Adjustment : 22-06-2022

08. Implementation period :

	Date of Commencement	Date of Completion
a) Original	October, 2018	June, 2021
b) No cost time extension	October, 2018	June, 2022
c) Actual	October, 2018	June, 2022

09. Financial Agreement (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 Effectiveness	Date of Closing	
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
15676.90	-	15676.90	-

9.2 Utilization of Project Aid: (Source wise)

(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

..... N/A

9.3 Reimbursable Project Aid (RPA)

(In Lakh Taka)

RPA Amount		Amount Spent	Amount claimed	Amount Reimbursed	Remarks.
As Per DPP	As per Agreement				
1	2	3	4	5	6

..... N/A

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

Implementation Period as per DPP		Actual Implementation Period	Time Over Run (% of Original Implementation Period)	Remarks
Original	Latest Revised			
1	2	3	4	5
October, 2018 to June, 2021	October, 2018 to June, 2022	October, 2018 to June, 2022	36.36%	As the Halda river has been declared as "Bangabandhu Fisheries Heritage" in recent years for breeding facilitation of carp fishes. Every year during March to July, motorized water vehicle movement has been strictly prohibited in the river. As this time coincides with CC block manufacturing, dumping & material mobilization work, so the progress was hampered. That has resulted for time over-run.

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	15676.90	-	15233.23	-2.83%	Didn't over-run.
Taka	15676.90	-	15233.23		
PA	-	-	-	-	

03. Project Personnel: Project work has been completed by the existing manpower of Chattogram O&M Division-1, BWDB, Chattogram.

Sanctioned strength as per PP	Manpower employed during execution	Status of the existing Manpower			Manpower Employed	
		Manpower requirement for O&M as per PP	existing Manpower for O&M	Others	Male	Female
1	2	3	4	5	6	7
Officer(s)	Existing manpower of the implementing agency were deployed during execution of the project.					
Staff(s)						
Total						

N/A

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

Field of Training /Study tour/work shop/ 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 Nil

b) Local Nil

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
(A) Supplies and Services:						
Petrol, Oil & Lubricant	1 item	10.00	100%	7.67	76.70%	
Printing & Publication	1 item	3.00	100%	3.00	100.00%	
Stamps & Seal	1 item	4.00	100%	3.98	99.50%	
Survey	1 item	20.00	100%	19.97	99.85%	
Honorarium (PIC, PSC, TEC, TOC etc.)	1 item	10.00	100%	10.00	100.00%	
Honorarium (for Mid Term Evaluation)	1 item	8.00	100%	6.90	86.25%	
Foreign training cum study tour	1 item	100.00	100%	2.56	2.56%	
Repairs, Maintenance & Rehabilitation						
Motor Vehicle	1 item	15.00	100%	14.99	99.93%	
Sub-total Revenue Component (A):		170.00		69.07		
(B) Capital Component:						
Motor Cycle (2 Nos)	Nos	3.00	2	3.00	2	
Engineering & Other Equipment (Hand GPS, Levelling Machine & Levelling Staff)	Set	5.00	2	3.50	2	
Computer & Accessories (With Printer and UPS)	Set	1.60	2	1.60	2	

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
Afforestation	1 item	40.00	L.S.	39.98	L.S.	
Construction and completion:						
River Bank Protection work at both bank of Halda river (from km. 22.220 to km. 60.550 = 7.000 km.)	km	10536.16	7.00	10503.01	7.00	
River Bank Protection work at both bank of Dhurong Khal (from km. 1.840 to km. 16.600 = 2.150 km.)	km	2629.08	2.150	2474.01	2.150	
Construction of embankment at both bank of Halda river (In between from km. 22.000 to km. 60.650 = 7.870 km.) and Construction of embankment at both bank of Dhurong Khal (In between from km. 1.840 to km. 14.450 = 3.700 km.) (Total = 11.570 km)	km	642.86	11.570	614.58	11.570	
Re-Sectioning of embankment at both bank of Halda river (In between from km. 22.300 to km. 54.900 = 22.810 km.) and Re-Sectioning of embankment at both bank of Dhurong Khal (In between from km. 0.500 to km. 15.050 = 11.820 km.) (Total = 34.630 km)	km	1549.20	34.630	1524.48	34.630	
Sub-total Capital Component (B):		15406.90		15164.16		
Total (A+B):		15576.90		15233.23	98.33%	
Physical Contingency (C):		50.00		0.00		
Price Contingency (D):		50.00		0.00		
Grand-Total (A+B+C+D):		15676.90	100.00%	15233.23	98.33%	

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
Bidyut Kumar Saha Executive Engineer Tk. 43000-69850- 5 th Grade	Full	-	Yes	22/11/2018	12/11/2019	
Tayan Kumar Tripura Executive Engineer Tk. 43000-69850- 5 th Grade	Full	-	Yes	08/01/2020	04/04/2022	
Mohammad Ali Executive Engineer Tk. 43000-69850- 5 th Grade	Full	-	Yes	20/06/2022	28/06/2022	

07. Procurement of Transport (in nos.):

Type of Transport	Number as per DPP	Procured with date	Transferred to Transport Pool with date	Transferred to O&M with date	Condemned/ damaged with date	Remarks.
1	2	3	4	5	6	7
Motor Cycle	2 nos	11/01/2020 & 01/02/2020	-	Hathazari O&M Sub- Division, BWDB, Chattogram 07/02/2020	-	Being used by Sub-Assistant Engineers for future inspection and maintenance of the project.

08. Procurement of Goods, Works and Consultancy Service.

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

Description of procurement (goods/work/consultancy) as per Bid document	Tender/Bid/ Proposal Cost (In crore Taka)		Tender/Bid/Proposal		Date of completion of works /services and supply of goods.	
	As per DPP	Contract value	Invitation date	Contract signing/LC opening date	As per contract	Actual
1	2	3	4	5	6	7
e-GP-03/ADP/Halda/PW/2018-19: Bank Protective work at the Left bank of Halda river near East Dhali (Hazipara) to Nazirhat Pourashava (Mondakini khal) from Km 28.630 to Km 28.710= 80m, Km 28.740 to Km 28.840=100m, Km 28.920 to Km 29.000=80m, Km 29.400 to Km 29.500= 100m, Km 31.100 to Km 31.250=150m, Km 33.290 to Km 33.453=163m & Km 33.780 to Km 33.880= 100 m & at the Right Bank from Km 34.250 to Km 34.750 = 500m, from Km 35.825 to Km 35.900 = 75m, from Km 36.100 to Km 36.150 = 50m, from Km 36.320 to Km 36.570 = 250m, Total = (80+100+80+100+150+163+100+500+75+50+250) = 1648.00m under the project "Bank Protection and Flood control of Halda River & Dhurong Khal in Fatikchhari & Hathazari Upazila of Chattogram District" during the year 2018-2019.	28.55	28.50	1st tender invitation date: 04-12-2018 Final Invitation Date: 30-04-2019	09-06-2019	15-06-2021	15-06-2021
e-GP-04/ADP/Dhurong/PW/2018-19: Bank Protective work on Dhurong Khal at Haripara, Sundarpur Union to Fatikchhari Pourashava at the left bank from km 1.840 to km 2.040 = 200m, at the Right Bank from km 2.500 to km 2.740 = 240m, at the left bank from km 2.720 to km 2.820 = 100m, at the Right Bank from km 3.650 to km 3.980 = 330m, at the left bank from km 4.180 to km 4.300 = 120m, from km 5.750 to km 5.830 = 80m & from km 6.250 to km 6.320 = 70m, Total= (200+240+100+330+120+80+70)= 1140.00m under the project "Bank Protection and Flood control of Halda River & Dhurong Khal in Fatikchhari & Hathazari Upazila of Chattogram District" during the year 2018-2019.	12.72	12.72	1st tender invitation date: 29-11-2018 Final Invitation Date: 22-01-2019	07-04-2019	15-06-2021	15-06-2021
e-GP-05/ADP/Dhurong/PW/2018-19: Bank Protective work on Dhurong Khal at Fatikchhari Pourashava to Kanchannogor Union at the right bank from km 5.260 to km 5.350 = 90m, at the Right Bank from km 6.220 to km 6.330 = 110m, at the left bank from km 13.380 to km 13.650 = 270m, from km 14.400 to km 14.650 = 250m, from km 15.250 to km 15.390 = 140m & km 16.450 to km 16.600 = 150m, Total = (90+110+270+250+140+150) = 1010.00 m under the project "Bank Protection and Flood control of Halda River & Dhurong Khal in Fatikchhari & Hathazari Upazila of Chattogram District" during the year 2018-2019.	13.57	13.57	1st tender invitation date: 04-12-2018 Final Invitation Date: 22-01-2019	07-04-2019	30-06-2022	30-06-2022

Description of procurement (goods/work/consultancy) as per Bid document	Tender/Bid/ Proposal Cost (In crore Taka)		Tender/Bid/Proposal		Date of completion of works /services and supply of goods.	
	As per DPP	Contract value	Invitation date	Contract signing/LC opening date	As per contract	Actual
1	2	3	4	5	6	7
e-GP-06/ADP/Halda/PW/2018-19: Bank Protective work at the Left bank of Halda river near South Sadek nagar to East Dhali (Hazipara) of Samitirhat Union from Km 22.300 to km. 22.630= 330m , km 24.850 to km 25.050=200m, km 25.250 to km 25.580=330m, km 26.780 to km 27.080=300m, km 27.380 to km 27.520= 140m & from km 27.810 to km. 28.230= 420m, Total = (330+200+330+300+140+420) =1720.00 m under the project "Bank Protection and Flood control of Halda River & Dhurong Khal in Fatikchari & Hathazari Upazila of Chattogram District" during the year 2018-2019.	26.52	26.51	1 st tender invitation date: 05-12-2018 Final Invitation Date: 07-03-2019	11-04-2019	31-05-2022	31-05-2022
e-GP-07/ADP/Halda/PW/2018-19: Bank Protective work of Halda river near Nazirhat Pourashava (Bhanga digir par) to Sundarpur Union (Azim Chowdhury Hat) on the Right bank from Km 37.030 to Km 37.180 = 150 m, at the Left Bank from Km 37.400 to Km 37.730=330 m, Km 39.525 to Km 39.725=200 m, at the right bank Km 41.225 to km 41.475 = 250 m, at the Left Bank from Km 41.650 to Km 41.950 = 300 m, at the Right bank from Km 42.150 to Km 42.250 = 100 m, from Km 43.150 to Km 43.300 = 150 m, at the Left Bank from Km 43.360 to Km 43.480 = 120 m, Total = (150+330+200+250+300+100+150+120) = 1600.00 m under the project "Bank Protection and Flood control of Halda River & Dhurong Khal in Fatikchari & Hathazari Upazila of Chattogram District" during the year 2018-2019.	23.85	23.85	1 st tender invitation date: 05-12-2018 Final Invitation Date: 30-04-2019	11-06-2019	31-05-2022	31-05-2022
e-GP-08/ADP/Halda/PW/2018-19: Bank Protective work of Halda river near Harwalchari to Narayanhat Bazar at the right bank from Km 43.660 to Km 43.760=100 m, Left Bank from Km 44.750 to Km 44.900=150 m, at the Right bank from Km 46.920 to Km 47.050=130m, from Km 47.250 to Km 47.450=200 m, at the Left Bank from Km 47.550 to Km 47.770 = 220m, at the Right bank from Km 53.350 to Km 53.500=150 m, from Km 54.950 to Km 55.180= 230 m, from Km 55.580 to Km 55.780=200 m, at the Left Bank from Km 57.270 to Km 57.420=150 m, at the Right bank from Km 57.260 to Km 57.460= 200 m, from Km 59.280 to Km 59.330= 50 m, from Km 60.250 to Km 60.502 = 252 m, Total= (100+150+130+200+220+150+230+200+150+200+50+252) = 2032.00 m under the project "Bank Protection and Flood control of Halda River & Dhurong Khal in Fatikchari & Hathazari Upazila of Chattogram District" during the year 2018-2019.	26.43	26.43	1 st tender invitation date: 06-12-2018 Final Invitation Date: 30-04-2019	11-06-2019	31-12-2021	31-12-2021

Description of procurement (goods/work/consultancy) as per Bid document	Tender/Bid/ Proposal Cost (In crore Taka)		Tender/Bid/Proposal		Date of completion of works /services and supply of goods.	
	As per DPP	Contract value	Invitation date	Contract signing/LC opening date	As per contract	Actual
1	2	3	4	5	6	7
e-GP-09/ADP/Halda/Emb/2018-19/Lot-1: Construction of Embankment at the Left Bank of Halda River from Km 22.000 to Km 22.630=630m, Km 25.050 to Km 25.380 = 330 m, Km 26.580 to Km 27.080=500m, Km 27.380 to Km 27.520=140m, Km 27.810 to Km 28.230 = 420m, Km 33.290 to Km 33.440=150m, Km 37.400 to Km 37.730=330m, Km 38.350 to Km 38.600=250m, Km 39.500 to Km 39.750=250 m, Right bank Km 41.200 to Km 41.500=300 m, Left bank Km 41.650 to Km 41.980=330m, Total (630+330+500+140+420+150+330+250+250+300+330)=3630.00min connection with "Bank Protection and Flood control of Halda River & Dhurong Khal in Fatikchari & Hathazari Upazila of Chattogram District" under Chattogram O & M Division-I, BWDB, Chattogram during the year 2018-2019. (Halda Lot-01)	2.43	2.43	1st tender invitation date: 10-04-2019 Final Invitation Date: 07-08-2019	26-11-2019	15-06-2021	15-06-2021
e-GP-09/ADP/Halda/construction/2019-20/Lot-2: Construction of Embankment at the Right bank of Halda River from Km 42.850 to Km 43.000=150 m, Left bank Km 43.360 to Km 43.480= 120 m, Km 44.750 to Km 44.900=150m & Right bank from Km 43.660 to Km 43.810=150m, Km 45.670 to Km 45.810=140m, Km 46.920 to Km 47.050= 130m, Km 47.250 to Km 47.500 = 250m & Left bank Km 47.780 to Km 50.930= 3150m, Total (150+120+150+150+140+130+250+3150) = 4240.00m in connection with "Bank Protection and Flood control of Halda River & Dhurong Khal in Fatikchari & Hathazari Upazila of Chattogram District" under Chattogram O & M Division-I, BWDB, Chattogram during the year 2018-2019.	2.75	2.75	1st tender invitation date: 10-04-2019 Final Invitation Date: 09-01-2020	09-04-2020	27-06-2021	27-06-2021
e-GP-10/ADP/Halda/Dhurong/Emb/2018-19/Lot-1: Re-sectioning of Embankment of Halda River at the Left Bank from Km 21.300 to Km 22.000=700m, Km 25.380 to Km 26.580 = 1200m, Km 27.080 to Km 27.380=300m, Km 27.520 to Km 27.810=290m, Km 29.500 to Km 31.100 = 1600m, at the Right Bank from Km 34.250 to Km 34.950=700m, at the Left Bank from Km 37.730 to Km 38.350=620m, Km 38.600 to Km 39.500=900m, Km 39.750 to Km 41.650=1900m, Right bank from Km 37.180 to Km 41.200= 4020m Total (700+1200+300+290+1600+700+620+900+1900+4020) = 12230.00 m in connection with "Bank Protection and Flood control of Halda River & Dhurong Khal in Fatikchari & Hathazari Upazila of Chattogram District" under Chattogram O & M Division-I, BWDB, Chattogram during the year 2018-2019. (Halda Lot-01)	6.03	5.85	1st tender invitation date: 10-04-2019 Final Invitation Date: 07-08-2019	27-11-2019	30-06-2022	30-06-2022

Description of procurement (goods/work/consultancy) as per Bid document	Tender/Bid/ Proposal Cost (In crore Taka)		Tender/Bid/Proposal		Date of completion of works /services and supply of goods.	
	As per DPP	Contract value	Invitation date	Contract signing/LC opening date	As per contract	Actual
1	2	3	4	5	6	7
e-GP-10/ADP/Halda/ReSectioning/19-20/Lot-2: Re-sectioning of Embankment of Halda River at the Right Bank in between Km 41.500 to Km 42.850 & Km 43.000 to Km 43.300=1650m, Km 43.300 to Km 43.660=360m, at the Left Bank from Km 41.980 to Km 43.360=1380m, in between Km 43.480 to Km 44.750 & Km 44.900 to Km 47.400 = 3770m & at the Right Bank from Km 51.300 to Km 52.550=1250m, Km 52.850 to Km 53.300=450m, Km 53.550 to Km 54.900=1350m, Total (1650+360+1380+3770+1250+450+1350) = 10210.00 m in connection with "Bank Protection and Flood control of Halda River & Dhurong Khal in Fatikchari & Hathazari Upazila of Chattogram District" under Chattogram O & M Division-1, BWDB, Chattogram during the year 2018-2019. (Halda Lot-02)	6.20	6.20	1st tender invitation date: 10-04-2019 Final Invitation Date: 09-01-2020	09-04-2020	28-06-2021	28-06-2021
e-GP-10ADP/Halda/Dhurong/Emb/2018 19/Lot-3: Re-Sectioning of Embankment at the left bank of Dhurong Khal from km 0.500 to km 1.500 = 1000m, km 2.500 to km 3.000 = 500m, km 3.250 to km 3.750 = 500m, at the Right Bank from km 1.300 to km 2.500 = 1200m, km 2.500 to km 3.650 = 1150m, km 3.750 to km 4.200 = 450m, km 4.700 to km 5.100 = 400m, km 5.650 to km 6.100 = 450m, at the Left bank from km 5.550 to km 6.650 =1100m, at the Right Bank in between km 10.330 to km 11.470 & km 11.680 to km 12.650 = 2110m, at the Left bank from km 11.850 to km 14.000 =2150m, km 14.500 to km 15.100 =600 m, Total=(1000+500+500+1200+1150+450+400+450+1100+2110+2150+600) = 11610m in connection with "Bank Protection and Flood control of Halda River & Dhurong Khal in Fatikchari & Hathazari Upazila of Chattogram District" under Chattogram O & M Division-1, BWDB, Chattogram during the year 2018-2019. (Dhurong Lot-03)	3.26	3.26	1st tender invitation date: 10-04-2019 Final Invitation Date: 14-08-2019	27-11-2019	15-06-2021	15-06-2021

08.2. Use of Project Consultant (s) (Foreign / Local): No provision of deploying consultant in this project.

Name of the field	Approved man month		Actual man month utilized	Remarks
	As per PP	As per contract.		
1	2	3	4	5

a) Foreign Nil.....

b) Local Nil.....

09. Construction / Erection / Installation Tools & Equipment:

Description of items	Quantity (As per DPP)	Quantity procured with date	Transferred to O&M with date	Deposed off as per rule with date	Balance	Remarks
1	2	3	4	5	6	7
Desktop Computer	2 Set	09/01/2020	Chattogram O&M Division-1, BWDB, Chattogram 09/01/2020	-	2 Set	Being used in Hathazari O&M Sub-Division, BWDB, Chattogram.

Description of items	Quantity (As per DPP)	Quantity procured with date	Transferred to O&M with date	Deposed off as per rule with date	Balance	Remarks
1	2	3	4	5	6	7
Level Machine, Levelling Staff & Hand GPS	2 Set	19/01/2020	Chattogram O&M Division-1, BWDB, Chattogram 19/01/2020	-	2 Set	

C. FINANCIAL AND PHYSICAL PROGRAMME:

01. (a) Original and revised schedule as per DPP.

(In Lakh Taka)

Financial year	Financial Provision & Physical target as per original DPP				Financial Provision & Physical target as per latest revised DPP			
	Total	Taka	PA	Physical %	Total	Taka	PA.	Physical %
1	2	3	4	5	6	7	8	9
2018-19	3168.96	3168.96	-	20.22%	4.96	4.96	-	0.03 %
2019-20	7797.65	7797.65	-	49.73%	2931.94	2931.94	-	18.70 %
2020-21	4710.29	4710.29	-	30.05%	9868.29	9868.29	-	62.95 %
2021-22	-	-	-	-	2871.71	2871.71	-	18.32 %
Total	15676.90	15676.90	-	100.00%	15676.90	15676.90	-	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 %		Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9	10
2018-19	5.00	5.00	-	0.03 %	5.00	4.96	4.96	-	2.00 %
2019-20	4000.00	4000.00	-	18.70 %	2975.00	2931.94	2931.94	-	37.25 %
2020-21	10040.00	10040.00	-	67.27 %	9906.66	9868.29	9868.29	-	46.75 %
2021-22	2771.00	2771.00	-	14.00 %	2673.13	2428.04	2428.04	-	12.33
Total	16816.00	16816.00	-	100.00%	15559.79	15233.23	15233.23	-	98.33%

* In Financial Year 2019-20 Funds were not released as allocated.

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Objective as per DPP	Actual achievement	Reasons for shortfall, if any.
(a) To protect Fatikchari Municipality of Fatikchari Upazila, Nazirhat Municipality and Samitirhat, Rosangiri, Daulatpur, Suabil, Sundarpur, Paindong, Bhujpur, Narayanhat & Kanchan Nagar Union and Farhadabad Union of Hathazari Upazila from erosion of Halda River and Dhurong Khal.	9.15 Km bank protection work with CC block have ensured protection from erosion of the Halda River and Dhurong Khal.	No shortfall
(b) Making Fatikchari Municipality, Nazirhat Municipality and Samitirhat, Rosangiri, Daulatpur, Suabil, Sundarpur, Paindang,	34.63 Km re-sectioning of embankment and 11.57 Km newly constructed embankment has ensured safeguard to flood in Fatikchari	

Objective as per DPP	Actual achievement	Reasons for shortfall, if any.
Bhujpur, Narayanhat and Kanchan Nagar Union of Fatikchhari Upazila and Farhadabad Union of Hathazari Upazila flood-free areas.	Municipality, Nazirhat Municipality and Samitirhat, Rosangiri, Daulatpur, Suabil, Sundarpur, Paindang, Bhujpur, Narayanhat and Kanchan Nagar Union of Fatikchhari Upazila and Farhadabad Union of Hathazari Upazila.	
(c) Minimizing environmental losses along with socio-economic losses in project areas from river erosion.	9.15 Km bank protection work with cc block have ensured protection from erosion of the Halda River and Dhurong Khal. As a result, environmental losses along with socio-economic losses in project areas has been minimized.	
(d) Eradicate poverty, improve livelihoods and create employment opportunities by ensuring stable and reliable agriculture.	About 1500 Ha of agricultural land has been protected from flood & river bank erosion through this project. So, the stakeholders are reaping better agricultural benefits than pre-project condition. Thus, poverty is eradicated, livelihood is improved and employment opportunities are created.	
(e) To protect the balance of the environment of the project area from adverse effects of the environment.	Afforestation is completed in project area. As a result, project area is protected from adverse effect of environment.	

E. BENEFIT ANALYSIS:

01. Annual Out-put:

Items of out-put	Unit	Estimated quantity expected at full capacity	Actual quantity of out-puts during the 1 st year of operation at full capacity (or during real production for newly completed project)
1	2	3	4
Ensured safeguard of following items/establishments from flood and river bank erosion:			
Building	Nos	300	300
Semi mature building	Nos	2000	1980
Raw House	Nos	2500	2500
Mud Road	km	22	22
Bridge/Culvert	Nos	10	10
Clinic/Hospital	Nos	2	2
Health care center	Nos	3	3
Market	Nos	5	5
Mosque	Nos	15	15
Govt. primary school & high school	Nos	5	5
Collage	Nos	3	3
Madrasha	Nos	10	10
Agriculture Land	ha.	1500	1500
Tree	Nos	2300	2250
Post office	Nos	2	2

02. Cost / Benefit:

Item	Estimated	Actual
(1) Benefit cost of the project		It will be evaluated later by concern directorate of BWDB & IMED.
(i) Financial	2.24:1.00	
(ii) Economic	2.50:1.00	
(2) Internal rate of return		
(i) Financial	29.38%	
(ii) Economic	33.31%	

03. Please give reason for shortfall, if any, between the estimated and actual benefit: No Shortfall.

F. MONITORING AND AUDITING.**01. Monitoring:**

Name & Designation of the inspecting official	Date of inspection	Identified Problems	Recommendations
1	2	3	4
(a) Ministry / Agency:			
Mr. Md Rokon Ud Doula Additional Secretary, MoWR.	Several Times	Not found	To complete the project within stipulated time.
Mid Term Evaluation Committee	11/09/2020	Not Found	To complete the project within stipulated time and to revise design for package no: eGP-03 & eGP-06.
Mr. Akhil Kumar Biswar Chief Engineer South Eastern Zone, Chattogram	Several times	Not found	All physical work of project should be completed within the approved implementation period according to approved design and specification.
Mr. Romjan Ali Pramanik Chief Engineer South Eastern Zone, Chattogram	Several times	Not found	To accelerate the physical progress of package no: eGP-05.
Dr. Jibon Kumar Sarker Superintending Engineer Design Circle-4, BWDB, Dhaka	Several times	Not found	To implement the project as per issued design.
Mr. Shibendu Khastagir Superintending Engineer Chattogram O&M Circle, Chattogram.	Several times	Not found	All physical work of project should be completed within the approved implementation period according to approved design and specification.
Mr. Bidyut Kumar Saha Executive Engineer Chattogram O&M Division-1 BWDB, Chattogram and Project Director	Several times	Not found	All physical work of project should be completed within stipulated time according to approved design and specification.
Mr. Tayan Kumar Tripura Executive Engineer Chattogram O&M Division-1 BWDB, Chattogram and Project Director	Several times	Not found	To amplify co-ordination with upazila office. All physical work of project should be completed within stipulated time according to approved design and specification.
Mr. Mohammad Ali Executive Engineer Chattogram O&M Division-1 BWDB, Chattogram and Project Director	Several times	Not found	All physical work of project should be completed within stipulated time according to approved design and specification.
(b) IMED:			
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(c) Others (Please specify):			
UNO, Fatikchari	Several times	Not found	To complete the project within time period to ensure protection of stakeholders.

02. Auditing during and after Implementation:

2.1. Internal Audit: Not Conducted.

Period of Audit	Date of submission of Audit Report.	Major findings/ objections	Whether objection resolved or not.
1	2	3	4
-	-	-	-

2.2. External Audit:

Audit Period	Date of submission of Audit Report.	Major findings/objections	Whether objection resolved or not.
1	2	3	4
2018-19	19-01-2021	Official estimate sanction of value 1,22,03,73.509 tk without inclusion of external member.	Resolved.
2019-20	No objection arisen.		
2020-21	20-01-2022	The project has been declared as complete without prior permission from National Economic Council; thus damaging the objective and purpose of the project causing a financial loss to Bangladesh Water Development Board amounting to 20,78,09,000 Taka.	Answer has been submitted through competent Authority and resolve of the objection is under process.
2021-22	Yet to be conducted.		

G. DESCRIPTIVE REPORT

1. General Observations/Remarks of the Project on:

1.1 Background

The project area is located at the Hathazari & Fatikchari Upazila of Chattogram District under Chattogram O & M Division-1, BWDB, Chattogram. The Halda river originates from the confluence of different mountain streams from a place called Badnatali in the deep forest area of Khagrachari district, crosses several unions of Fatikchari and Hathazari upazilas of Chattogram district and falls into the Bay of Bengal through the Karnaphuli river. The combined flow of these rivers and khals continuously flow through the Halda River and falls into the Bay of Bengal. These hilly rivers and khals become very dangerous, rough and aggressive in the monsoons. Due to the sudden flash flood, the river is prone to erosion in the steep and crooked places in its course. As a result of the collapse, the silt falls on one side and fills it with silt, and huge damage is caused to the place of collapse. Crop production in the project area is affected due to continuous erosion of Halda river every year. In addition, in recent years, due to the effect of hill landslides caused by excessive rainfall in Chattogram and hilly districts, the embankments on both banks of Halda river in Fatikchari and Hathajari upazilas were breached and water entered into the project area. Various important structures, roads, housing and educational institutions were seriously damaged. Sadek Nagar and East Dholoi of Somtirhat Union on the left bank of the Halda River, from South Roshangiri to Roshangiri Union Parishad in Roshangiri Union, both banks and Kumbharpara adjacent to Nazirhat Bridge in Daulatpur Union, Nazirhat Bazar and Nazirhat College adjacent to Nazirhat Bridge in Farhadabad Union, Bhangadighir Par, Brammonhat and Temples, Ekkulia, Juginirghat Bridge in Sundarpur Union, Verallapara in Harualchari Union, Golapukur, Patialchari, Azim Chowdhury Ghat, both banks adjacent to Juginirghat Bridge in Paindong Union, Singhoriya Buddhist

Temple in Bhujpur Union, Kalagazi Farm and Cotbari area, Narayanhat Bazar in Narayanhat Union, Islamia Madrasha and Kumarpara area having a river erosion trend is very severe nature.

The Dhurong Khal (river) originates from the remote hilly area of Lakkhichari Upazila of Khagrachari and flows into the Halda River over Kanchannagar, Paindong, Dhurong Municipalities and Sundarpur Union. Although known as a khal, it is not less than a river in any part. The width of this Dhurong River is approximately 70 to 100 meters. The Dhurong Khal takes on a monstrous appearance during the monsoon season and bank erodes at various parts. Besides, one of the most important places in Fatikchhari is Bibirhat Bazar which is adjacent to Dhurong Khal (river). Due to the erosion of the left and right banks of the Dhurong khal (river), Bibirhat Bazar of Dhurong municipality, public and private establishments of the upazila including Fatikchhari police station, Chorpara of Kanchan Nagar Union, Manikpur High School adjacent to Monthartek and Somurhat Bazar, houses of the local public in the area, Hat-bazar, cropland, schools, Madrashes, mosques, haat bazars, community clinics, etc are severely damaged. In view of this, the river bank protective work is needed to be implemented in various places of Fatikchhari Municipality, Sundarpur Union and Kanchannagar Union of Fatikchhari upazila.

In addition, every year, the old flood control embankments of Halda River and Dhurong Khal were breached and water enters various areas of Fatikchhari and Hathazari upazila causing severe mass suffering. Moreover, in many places of these areas there are no flood control embankments, causing huge loss of life and property every year.

In order to protect the damaged areas, the then Honorable Minister, Ministry of Water Resources, local administration including honorable members of parliament, municipal mayor and other public representatives have repeatedly requested the various levels of the public office.

To solve the mentioned problems, in order to verify the feasibility of design and implementation of permanent river bank protection work in the project area of Hathazari and Fatikchhari Upazila of Chattogram district, which are highly dependent on agriculture in this area, a technical committee was formed. Based on the report of the technical committee, the proposed DPP is formulated.

1.2 Justification/Adequacy:

The Halda River is declared "Bangabandhu Fisheries Heritage" by Bangladesh Government in recent years. From the origin Halda river crosses several unions of Fatikchhari and Hathazari upazilas of Chattogram district and falls into the Bay of Bengal through the Karnaphuli river. Dhurong khal also a major contributor to the Halda river. During monsoon period due to heavy rainfall in khagrachari hill tracks, flash flood damages both bank of Halda river and dhurong khal. Sometimes it becomes very severe that it causes immense impact to river bank and embankment. This has significant social and economic impacts. The loss of land, crop and property has led to landlessness and impoverishment of thousands of dwellers living within bank lines.

The large seasonal variation in river flow results in varying sediment transportation capacity and causes river-bank erosion, migration of river-banks and meandering river channels. 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 bazars as well as agricultural land. The issue has been given due importance in the national planned documents for water sector and prioritized strategic locations of river banks have been stressed for phased implementation of river bank protection program at the apex level.

The overall objective of the project is to protect both bank of Halda River and Dhurong Khal from erosion and flash flood with ensuring safety of lives and properties around the area.

1.3. Objectives:

- To protect Fatikchari Municipality of Fatikchari Upazila, Nazirhat Municipality and Samitirhat, Rosangiri, Daulatpur, Suabil, Sundarpur, Paindong, Bhujpur, Narayanhat & Kanchan Nagar Union and Farhadabad Union of Hathazari Upazila from erosion of Halda River and Dhurong Khal.
- Making Fatikchari Municipality, Nazirhat Municipality and Samitirhat, Rosangiri, Daulatpur, Suabil, Sundarpur, Paindong, Bhujpur, Narayanhat and Kanchan Nagar Union of Fatikchari Upazila and Farhadabad Union of Hathazari Upazila safe flood-free areas.
- Minimizing environmental losses along with socio-economic losses in project areas from river erosion.
- Eradicate poverty, improve livelihoods and create employment opportunities by ensuring stable and reliable agriculture.
- To continue socio-economic development along with social security of the project area.
- To protect the balance of the environment of the project area from adverse effects of the environment.

1.4. Project revision with reasons: N/A

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

The Halda River is a river in south-eastern Bangladesh. It originates at the Badnatali Hill Ranges in Ramgarh Upazila in the Khagrachari Hill Tracts, flows through Fatikchhari Upazila, Bhujpur Thana, Hathazari Upazila and falls into the Karnaphuli River. The 81-kilometre-long river has a very turbulent tributary, the Dhurung khal, which joins Purba Dhalai about 48 kilometers downstream. The main objectives of this Project are to protect project area from river erosion and flood control, attaining generation of rural employment, poverty alleviation especially for rural poorer section, creation of social & environmental balance and building economic infrastructures for the future generations to sustain. As such, 9.150 km bank protective work and 46.20 km construction/re-sectioning embankment would prevent the erosion & loss of about 1500 ha of irrigation land including about 4800 household of urban and semi-urban built-up area in Fatikchari and hathazari upazila from loss of livelihood, property, displacement and impoverishment. It would also prevent severe flood damage to crops, property and infrastructure as a result of breaching caused by river bank erosion of the project site.

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

◆ Project Identification:

To solve the problem of river bank erosion and to control flash flood, local people was demanding to take necessary steps. MP of Chattogram-2 constituency has requested the Hon'ble Minister of Water Resources to take necessary steps to solve the problem of river erosion and flash flood in the project area through DO letter.

◆ Project Preparation:

To protect Fatikchari and Hathazari Upazila in Chattogram District from severe erosion and flash flood of the Halda River and Dhurang Khal, a Technical Committee was formed by Board Secretariat of BWDB vide its Memo No. 360-BWDB/Sec/Planning-1/mis-3/2002(pth part)/90 dated: 27-07-2015. On the Recommendation of the Technical Committee, DPP was furnished.

◆ Appraisal:

The PEC meeting was held on 23-07-2018 at Planning Commission. As per decision of PEC meeting the DPP was corrected and sent to the ECNEC for the approval of above project.

- ◆ **Credit Negotiation:** Not Applicable.
- ◆ **Credit Agreement:** Not Applicable.
- ◆ **Credit Effectiveness:** Not Applicable.
- ◆ **Loan Disbursement:** Not Applicable.
- ◆ **Loan Conditionality:** Not Applicable.
- ◆ **Project Approval:**

The Project was approved by ECNEC on 15-10-2018 and Inter-item cost adjustment was approved by Honorable State Minister on 22-06-2022.

- ◆ **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**

As 9.15 Km bank protection work, 34.63 Km re-sectioning of embankment and 11.57 Km embankment construction work is completed, the stakeholders are directly reaping advantage of the created facilities of the project.

- 4.3 O & M programme of the project.**

After completion of the project major repair/rehabilitation works will be carried out by regular O&M budget of BWDB.

- 4.4 Impact of the project -**

4.4.1 Direct

- Saved numerous important permanent establishments.
- Protected 1500 ha agricultural land from flood and river bank erosion thus allowing farmers to reap benefits directly.
- Nazirhat-Katirhat connecting road which is also used by Nazirhat Degree College has been saved by permanent bank protection work along the Halda River.
- Damages caused by flood within the project area has reduced and thus increasing land value. It also created scope for construction of other infrastructures.
- Connectivity of Hathazari and Fatikchari upazila has improved.

4.4.2. Indirect

- River alignment has been maintained in a sustainable thalweg for sustainable river management.
- Socio-economic condition has improved in the project area.
- Environmental impact has been mitigated and ecological balance has been established.

- 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, industrial and business centers are protected from river bank erosion and the environmental degradation.

4.8 Possibility of women-employment opportunity

Yes, there are possibilities of women-employment through the project benefited area enhanced.

4.9 Women's participation in development

Yes.

4.10 Probable Impact on Socio-Economic activity.

By protecting the river bank, various infrastructures are saved from the erosion which is worth of BDT 958.93 crore. As a result, socio-economic balance in the locality is enhanced.

4.11 Impact on environment

Environmental enhancement is achieved through the implementation of the project.

4.12 Sustainability of the project

The project is sustained but requires periodic maintenance.

4.13 Contribution to poverty alleviation/reduction

The project has direct contribution and impact on poverty alleviation/reduction.

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

Positive remarks regarding the project.

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)

5.1 Project Management N/A.

5.2 Project Director N/A.

5.3 Land Acquisition N/A.

5.4 Procurement N/A.

5.5 Consultancy N/A.

5.6 Contractor N/A.

5.7 Manpower N/A.

5.8 Law & Order

As the Halda river has been declared "Bangabandhu Fisheries Heritage" in recent years, for breeding facilitation of carp fishes, every year during March-July, motorized water vehicle movement is strictly prohibited in the river. As this time coincides with cc block manufacturing,

	dumping & material mobilization work, so every year the progress was hampered.
5.9 Natural calamity	N/A.
5.10 Project financing, allocation and release	N/A.
5.11 Design formulation /approval	N/A.
5.12 Project aid disbursement and re-imburement	N/A.
5.13 Mission of the development partners.	N/A.
5.14 Time & Cost Over-run	As mentioned in B-01 & B-02.
5.15 Project Supervision /Inspection	N/A.
5.16 Delay in Decision	N/A.
5.17 Transport	N/A.
5.18 Training	N/A.
5.19 Approval	N/A.
5.20 Others	N/A.

6. Remarks & Recommendations of the Project Director:

The main objective of the project was to protect both banks of the Halda River and Dhurang khal from erosion and to make Fatikchari and Hathazari upazila flood free areas. Thus, vast arable lands and other public and private properties have been saved by execution of 9.150 km river bank protection works, 36.630 km re-sectioning of embankment and 11.570 Km construction of embankment. The very nature & objectives of this project have direct relevance with the natural objective of attaining self-reliance, generation of rural employment, poverty alleviation especially for rural poor section, creation of social & environmental balance & building of economic infrastructures for the future generation to sustain due to river erosion mitigation.

The commencement and completion of the project was scheduled to be accomplished from October, 2018 to June, 2021 as per approved DPP and accordingly implementation completion has been achieved within June, 2022 with no cost time extension for a year.

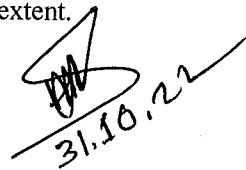
It should be mentioned that the Halda river has been declared "Bangabandhu Fisheries Heritage" in recent years, for breeding facilitation of carp fishes. Every year during March-July, motorized water vehicle movement is strictly prohibited in the river. So, during implementation period it faced difficulties in carrying construction material like stone chips, cement as well as equipment like excavator and chain dozer have challenged the progress of the project. Moreover, onset of Covid-19 has seriously delayed the progress of the project during the entire year of 2020 and part of 2021. The project has been implemented in compliance with approved design & specifications. Quality control (Pre & post work of embankments, cc block/sand filled geo-bag counting & testing) has been assured by BWDB's Taskforce committee to ensure highest quality with greater transparency. Regular project steering committee and project implementation committee meetings have provided valuable guidance towards achieving project goals. Mid-term evaluation committee has also visited the project area on 11 September, 2020.

After successful implementation of the project, physical safety and sense of security among the people of the project area have been developed, resulting in enhanced investment in housing and commercial buildings, enhanced investment in business and development work and have also caused positive impacts

on agriculture and fish resources production and land prices. These all components will enhance the opportunity of employment and poverty alleviation.

Recommendation: This project is performing well and good and as per expectation and can be declared as sustainable. Like any other development projects especially as a hydrological project with a number of uncertainties; it will require periodic maintenance of implemented components. Upon ensuring periodic maintenance as per requirement, the life of the project can be extended to a greater extent.


Date:


(Md. Mahbubur Rahman)
Executive Engineer
Chattogram O&M Division-1
BWDB, Chattogram

07. Remarks/Comments of Agency Head.

The main objective of the project was to protect both banks of the Halda River and Dhurang Khal from erosion and to make Fatikchari and Hathazari Upazila flood-free areas. Implementation of 9.150 km river bank protection works, 36.630 km re-sectioning of the embankment, and 11.570 Km construction of embankment provided safety to vast arable lands and other public and private properties. The implementation of this project was particularly challenging as the Halda River has been declared "Bangabandhu Fisheries Heritage" which restricts the movement of motorized water vehicle movement from March-July which coincides with the working period. Overcoming all these problems, the project has been completed successfully and the stakeholders are getting the benefits of the project.

Date:

 27.11.2022
(FAZLUR RASHID)
Signature and Seal of Sector General
BWDB, Dhaka.

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

After implementation of the project, 9.8 km bank protection work with concrete block has ensured protection from erosion of the Halda River and Dhurong khal. 11.57 km newly constructed embankment and 34.63 km embankment re-sectioning has ensured flood protection in the area adjacent to the project. About 1500 hectares of agricultural land has been protected from flood and river bank erosion through this project. Stakeholders are being benefited from the project and socio-economic condition of the people of project area has been improved. Due to covid-19 and restriction of vehicle movement in the project area, the duration of project enhanced. Proper maintenance and monitoring should be ensured so that the outcome of the project sustain effectively.

Date:

Signature and Seal

