



BANGLADESH WATER DEVELOPMENT BOARD

PROJECT COMPLETION REPORT

IMED FORM NO.: 04/2003 (Revised)

NAME OF PROJECT: RIVER BANK PROTECTIVE WORK WITH CC BLOCK ALONG THE LEFT BANK OF DHALESWARI RIVER FROM KM 10.920 TO 13.050 = 2.130 KM TO PROTECT THE EMBANKMENT, GACH KUMULLI, BAROPAKIA & GHONAPARA IN UPAZILA DELDUAR & NAGORPUR, DIST-TANGAIL.

DIVISION : TANGAIL O&M DIVISION, BWDB, TANGAIL.
CIRCLE : MYMENSINGH O&M CIRCLE, BWDB, MYMENSINGH.
ZONE : CENTRAL ZONE, BWDB, DHAKA.

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 protective work with CC block along the left bank of Dhaleswari river from km 10.920 to 13.050 = 2.130 km to protect the embankment, Gach kumulli, Baropakia & Ghonapara in Upazila Delduar & Nagorpur, Dist-Tangail.

02. Administrative Ministry/Division : Ministry of Water Resources (MoWR)

03. Executing Agency : Bangladesh Water Development Board (BWDB)

04. Location of the Project : Delduar & Nagorpur Upazila of Tangail Distrcit.

05. Objective of the Project :

- To arrest river bank erosion and flood protection coverage by construction of River Bank Protection works for a length of 2.530 km (from km 10.920 to km 13.450) and dredging of Dhaleswari river for a length of 7.45 km (km 1.00 to km 8.450) to protect the embankment, Gach-Kumulli, Baropakhia & Ghonapara in Upazila Delduar & Nagorpur, Dist-Tangail.
- Safeguard the BWDB's embankment of Babupur-Lauhati FCD Project cum road and different Government & Non-government establishments, educational & religious institutions, homestead and cultivatable lands.
- Safeguard security against adverse situation in economy of the locality due to the erosion of river bank;
- It is anticipated that huge immovable properties situated in and around the eroding bank of the river with approximate total worth of Tk. 39990.00 lakh which are supposed to be adversely affected will be saved by the proper implementation of the project throughout construction of 2.530 km protective works under the project.

06. Estimated Cost:

(In lakh Taka)

	Original	Latest Revised
(a) Total	11427.19	12489.05
(b) Taka	11427.19	12489.05
(c) Foreign Currency	-	-
(d) Project Aid	-	-
(e) RPA	-	-

07. Date of Approval :

PCP	PP
-----	----

(a) Original : - 20/09/2017

(b) Latest Revised : - 24/06/2019



08. Implementation Period :

	Date of Commencement	Date of Completion
(a) Original	January, 2017	June, 2019
(b) Latest Revised	January, 2017	June, 2020
(c) No Cost Time Extension	January, 2017	June, 2021
(d) Actual	January, 2017	June, 2021

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
-----N/A-----							

b) GOB:

(In lakh Taka)

Total amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
12489.05	-	12489.05	-

9.2 Utilization of Project Aid: (Source wise)

(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):

(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-----



—

1. 1000

100



Description	Estimated Cost		Actual expenditure	Cost over-run (% of original cost)	Remarks
	Original	Latest revised			
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
TOTAL	11427.19	12489.05	10363.51	-9.31%	Due to the decrease of dredging work volume of Dhaleshwari river as per the Post-Work Survey (final measurement) and decrease of tendered value than the estimated cost.
TAKA	11427.19	12489.05	10363.51	-9.31%	
PA	0.00	0.00	0.00	0.00%	

100

Sanctioned strength as per DPP	Manpower employed during execution	Status of the existing manpower			Manpower Employed	
		Manpower requirement for O & M as per DPP	Existing manpower for O & M	Others	Male	Female
1	2	3	4	5	Male	Female
Officer (s) 6	The existing manpower of the implementing agency (Tangail O&M Division, BWDB, Tangail) were deployed during execution of the project. No separate manpower was needed to engage for the project work.					
Staff(s) 4						
Total : 10						

04. Training of Project Personnel (Foreign/Local): There were no provision of training in this project.

Field of Training /Study tour/workshop/S eminer etc.	Provision as per DPP		Actual		Remarks
	Number of person	Man - months	Number of person	Man - months	
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
a. Foreign	N/A				
b. Local	N/A				

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

(In lakh Taka)

Items of work (as per DPP)	Unit	Target (as per DPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
A. Revenue						
Travel allowance	L. S.	2.00	1 item	1.87	1 item	
Petrol & Lubricant	L. S.	2.50	1 item	2.95	1 item	
Printing & Publication	L. S.	2.00	1 item	1.97	1 item	
Stationary, seal & stamps	L. S.	1.50	1 item	1.47	1 item	
Honorarium/remuneratio n [for PSC,PIC,TEC etc.]	L. S.	8.00	1 item	5.59	1 item	
Honorarium for mid-term evaluation	L. S.	10.00	1 item	9.22	1 item	
Survey (Bathymetry and Bank line survey)	L. S.	3.00	1 item	2.99	1 item	
Computer Accessories	L. S.	1.00	1 item	0.99	1 item	
Repair & Rehabilitation of existing vehicles	L. S.	3.00	1 item	2.95	1 item	
Sub-total (Revenue) =		33.00	-	30.00		
River Bank Protective Work along with end termination at U/S and D/S of the 2.530 Km. long Protective Work.	Km.	7557.62	2.530 km	7060.45	2.530 km	
Dredging of Dhaleswari River by Dredger in between Gachh- Kumulli & Ghonapara for a length of 7.450 km.	Km/ cum	4878.43	7.450 km/ 3609600 cum	3273.06	7.450 km/ 2809600 cum	Volume of dredging works decreased due to the bed erosion occurred naturally which was not included in the measurement of dredging works done by the contractors. The volume of dredging works had been determined by joint pre and post work survey



Items of work (as per DPP)	Unit	Target (as per DPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
						carried out by BWDB's taskforce and IWM. Though the volume of dredging works decreased, the over all project goals didn't changed or interrupted.
Sub-Total (Capital) =		12436.05	-	10333.51	-	
Physical Contingency =		10.00	-	0.00	-	
Price Contingency =		10.00	-	0.00	-	
Total (Revenue+Capital) =		12489.05	100.00%	10363.51	96.86%	

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
A. K. M. Shafiqul Haque Superintending Engineer 50000-71200 Pay Scale: 4 th Grade	Yes	-	Yes	06 August' 2017	05 March' 2020	
Md. Shahjahan Siraj Superintending Engineer 50000-71200 Pay Scale: 4 th Grade	Yes	-	Yes	05 March' 2020	Till to date.	

07. Procurement of Transport (in Nos.):

Type of transport	Number as per D. P.P.	Procured with date	Transferred to Transport Pool with date	Transferred to O & M with date	Condemne d/ damaged with date	Remarks
1	2	3	4	5	6	7
Car	-	-	-	-	-	-
Jeep	-	-	-	-	-	-
Microbus	-	-	-	-	-	-
Minibus	-	-	-	-	-	-
Bus	-	-	-	-	-	-
Pick-up	-	-	-	-	-	-
Truck	-	-	-	-	-	-
Motor Cycle	-	-	-	-	-	-

Type of transport	Number as per D. 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
By-cycle	-	-	-	-	-	-
Speed Boat	-	-	-	-	-	-
Launch	-	-	-	-	-	-
Others with name	-	-	-	-	-	-

08. Procurement of Goods, Works and Consultancy Services:

08.1 Works of the Project costing above Tk. 200.00 lakh:

Description of procurement (works) as per bid document	Tender Cost (in crore Taka)		Tender		Date of completion of works	
	As per DPP	Contracted value	Invitation date	Contract signing	As per contract	Actual
1	2	3	4	5	6	7
(a) River Bank Protective Work along the left bank of Dhaleswari river in c/w Babupur-Lauhati FCD Project for a length of 400m (from km 10.920 to km 11.320) in UZ: Delduar of Tangail district during the year 2017-18 (Package No. W - BL - 01/ 2016-17)	Original-10.37 Revised-10.07	Original-9.70 Revised-10.07	31-12-2017	25-03-2018	26-06-2019	30-06-2020
(b) River Bank Protective Work along the left bank of Dhaleswari river in c/w Babupur-Lauhati FCD Project for a length of 400m (from km 11.320 to km 11.720) in UZ: Delduar of Tangail district during the year 2017-18 (Package No. W - BL - 02/ 2016-17)	Original-10.46 Revised-9.76	Original-9.42 Revised-9.76	31-12-2017	02-04-2018	26-06-2019	30-06-2021
(c) River Bank Protective Work along the left bank of Dhaleswari river in c/w Babupur-Lauhati FCD Project for a length of 400m (from km 11.720 to km 12.120) in UZ: Delduar of Tangail district during the year 2017-18 (Package No. W - BL - 03/ 2016-17)	Original-10.43 Revised-9.56	Original-9.39 Revised-9.56	31-12-2017	21-03-2018	28-06-2019	28-06-2020
(d) River Bank Protective Work along the left bank of Dhaleswari river in c/w Babupur-Lauhati FCD Project for a length of 400m (from km 12.120 to km 12.520) in UZ: Delduar of Tangail district during the year 2017-18 (Package No. W - BL - 04/ 2016-17)	Original-10.41 Revised-9.67	Original-9.37 Revised-9.67	31-12-2017	21-03-2018	30-06-2019	25-06-2020
(e) River Bank Protective Work along the left bank of Dhaleswari river in c/w Babupur-Lauhati FCD Project for a length of 530m (from km 12.520 to km 13.050) in UZ: Delduar of Tangail district during the year 2017-18 (Package No. W - BL - 05/ 2017-18)	Original-15.27 Revised-19.18	Original-13.75 Revised-19.18	31-12-2017	21-03-2018	30-06-2019	30-06-2021
(f) Dredging of Dhaleswari River from km. 1.000 to km. 2.300 = 1300m in between Gach Kumulli & Ghonapara in Upazila- Delduar & Nagorpur Dist. Tangail under Tangail O & M Division BWDB Tangail During the year 2017-18 & 2018-19. (Package No. W - BL - 06/ 2017-18)	Original-9.87 Revised-6.76	Original-8.88 Revised-6.76	17-05-2018	28-08-2018	30-06-2019	30-06-2019
(g) Dredging of Dhaleswari River from km. 2.300 to km. 3.400 = 1100m in between Gach Kumulli & Ghonapara in Upazila- Delduar & Nagorpur Dist. Tangail under Tangail O & M Division BWDB Tangail During the year 2017-18 & 2018-19. (Package No. W - BL - 07/ 2017-18)	Original-12.11 Revised-7.71	Original-10.89 Revised-7.71	05-08-2018	20-11-2018	25-06-2019	30-06-2019
(h) Dredging of Dhaleswari River from km 3.40 to km. 6.00 = 2600 m in between Gachh-	Original-20.06	18.06	13-01-2019	28-08-2018	28-06-2019	31-12-2020

Description of procurement (works) as per bid document	Tender Cost (in crore Taka)		Tender		Date of completion of works	
	As per DPP	Contracted value	Invitation date	Contract signing	As per contract	Actual
1	2	3	4	5	6	7
Kumulli & Ghonapara of Delduar and Nagorpur upazila, District Tangail. (Package No. W – BL - 08/ 2018-19)	Revised- 18.06					
(i) River Dredging work of Dhaleswari River from km. 6.000 to km 8.450 = 2450m in between Gachkumulli & Ghonapara in Upazila-Delduar & Nagorpur Dist. Tangail under Tanagil O & M Division BWDB Tangail during the year 2018-19. (Package No. W – BL - 09/ 2018-19)	Original- 17.05 Revised- 15.35	15.35	13-01-2019	24-03-2019	30-06-2020	30-06-2021
(j) River Bank Protective Work along the Left Bank of Dhaleswari River in C/W Babupur-Lauhati FCD Project for a Length of 400m from Km. 13.050 to Km. 13.450 and U/S & D/S End-Termination of 94.25m Curved Length of the Whole 2.530 Km Protective Work of the Project during the Year 2018-19. (Package No. W – BL - 10/ 2018-19)	18.10	16.93	26-08-2019	24-11-2019	30-06-2020	30-06-2021

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			N/A	
b. Local			N/A	

09. Construction/Erection/Installation Tools & Equipment:

Description of items	Quantity (as per PP)	Quantity procured with date	Transferred to O & M with date	Disposed off as per rule with date	Balance	Remarks
1	2	3	4	5	6	7
-----N/A -----						

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 DPP				Financial provision & physical target as per latest revised DPP			
	Total	Taka	P.A.	Physical %	Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9
2016-17	3147.79	3147.79	0.00	27.55%	0.00	0.00	0.00	0.00%
2017-18	4819.37	4819.37	0.00	42.17%	49.25	49.25	0.00	0.39%
2018-19	3460.03	3460.03	0.00	30.28%	5770.00	5770.00	0.00	46.20%
2019-20	-	-	-	-	6669.80	6669.80	0.00	53.41%
2020-21	-	-	-	-	-	-	-	-
Total =	11427.19	11427.19	0.00	100.00%	12489.05	12489.05	-	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
2016-17	-	-	-	-	-	-	-	-	-
2017-18	50.00	50.00	0.00	0.39%	50.00	49.25	49.25	0.00	1.22%
2018-19	5500.00	5500.00	0.00	46.20%	5500.00	5485.45	5485.45	0.00	49.00%
2019-20	4253.00	4253.00	0.00	23.97%	4253.00	2566.89	2566.89	0.00	20.34%
2020-21	2645.00	2645.00	0.00	29.44%	2639.00	2261.92	2261.92	0.00	26.30%
Total =	12454.00	12454.00	0.00	100.00%	12448.00	10363.51	10363.51	0.00	96.86%

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

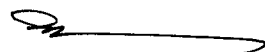
Objectives as per DPP	Actual achievement	Reasons for shortfall, if any
a) To arrest river bank erosion and flood protection coverage by construction of River Bank Protection works for a length of 2.530 km (from km 10.920 to km 13.450) and dredging of Dhaleswari river for a length of 7.45 km (km 1.00 to km 8.450) to protect the embankment, Gach-Kumulli, Baropakhia & Ghonapara in Upazila Delduar & Nagorpur, Dist-Tangail.	a) As per provision of DPP for a length 2.530 Km River bank Protective Work has been implemented along the left Bank of Dhaleshwari River at Gachh-Kumulli, Baropakhia of Delduar Upazila & Ghonapara of Nagorpur Upazila within the stipulated time 30 June, 2021. Dredging of Dhaleswari river of 7.45 km has also been done within the project period. Therefore, the achievement of Project goal under the provision of DPP has been achieved 100%.	N/A
b) Safeguard the BWDB's embankment of Babupur-Lauhati FCD Project cum road and different Government & Non-government establishments, educational & religious institutions, homestead and cultivatable lands.	b) By implementing the Protective works at a length of 2.530 Km. safeguard of BWDB's embankment of Babupur-Lauhati FCD Project cum road and different Government & Non-government establishments, educational & religious institutions, homestead and cultivatable lands has been ensured against erosion of Dhaleshwari river,	
c) Safeguard security against adverse situation in economy of the locality due to the erosion of river bank; and	c) safeguard of local economy has been achieved against against adverse situation by providing river bank protection for a of length 2.53 Km overcoming the threat of River Bank erosion.	

Objectives as per DPP	Actual achievement	Reasons for shortfall, if any
d) It is anticipated that huge immovable properties situated in and around the eroding bank of the river with approximate total worth of Tk. 39990.00 lakh which are supposed to be adversely affected will be saved by the proper implementation of the project throughout construction of 2.530 km protective works under the project.	d) After implementation of the protective work for a length of 2.53 Km along the left bank of Dhaleshwari River the immovable properties situated on and around the river bank with approximate total worth of BDT. 39990.00 lakh has been secured and safeguard has been ensured against River erosion of that area.	

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).
High School	Nos.	3	3
Embankment cum village road	km	2.00	2.00
Community Clinic	Nos.	1	1
Post Office	No.	1	1
Madrasha	Nos.	2	2
Primary school (building)	Nos.	3	3
Bazar Shop	Nos.	150	150
Coaching Centre	Nos.	5	5
Kacha Road	km	2.00	2.00
Households (Building & semi paka)	nos.	1500	1500
Cultivable lands	ha.	200	200
Mosque	Nos.	4	4
Bridge/culvert	Nos.	5	5



02. Cost / Benefit:

Item	Estimated	Actual
(1) Benefit cost ratio of the project	(1) B/C Ratio	Will be evaluated later by concern directorate of BWDB & IMED.
(i) Financial	(i) 1.17: 1	
(ii) Economic	(ii) 1.36: 1	
(2) Internal Rate of Return	(2) Internal Rate of Return	
(i) Financial	(i) 15.18%	
(ii) Economic	(ii) 18.53%	

03. Please give reasons for shortfall, if any, 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: Mahmudul Islam Additional Secretary (Dev.), MoWR.	30/11/2019	Not found	
Md. Azadur Rahman Mallik Joint Secretary (admin) Ministry of Water Resources	28-08-2020	Not found	
Akhil Kumar Biswas Chief Engineer, Central Zone, BWDB.	30/11/2019	Not found	
Mantu Kumar Biswas Joint Chief, MoWR.	30/11/2019	Not found	
Md. Abdul Matin Sarkar Chief Engineer, Central Zone, BWDB.	Several times	Not found	
Md. Shahjahan Siraj Superintending Engineer, Mymensingh O&M Circle, BWDB, Mymensingh.	Several times	Not found	
Md. Sirajul Islam Executive Engineer Tangail O & M Division BWDB, Tangail	Several times	Not found	
(b) IMED: 1. Md. Afzal Hossen Director, IMED	18.02.2019	N/A	i) Manufactured c.c. block should be counted by BWDB Taskforce and have to dumped or placed immediately. ii) Proper co-ordination should be confirm to avoid delay regarding manufactured c.c. block counting, dumping and placing. iii) Contractors for dredging work have to select within short time to timely completion of dredging. iv) Monitoring of Agency (BWDB) and ministry (MoWR) have to strong to complete the project within the stipulated time. v) River bank erosion just after the down stream of package no. 05 has been taken places. Measures should be taken to protect this erosion. vi) All the physical works of the project should have to complete complying with the approved design and specification.

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
2. Khandakar Md. Ali Director, IMED	06.03.2020	Apointed contractor of the new package BL-10/2018-19 incorporated in RDPP for 400 m protective works and 94.25 m end termination works did not mobilize yet. This is identified as a problem of the project to complete within the scheduled time.	i) The completed protective works are in good condition. But in one place about 1m in length, some placing blocks are settled down. This settled c. c. block should be repair within short time. ii) If Apointed contractor of the new package BL-10/2018-19 incorporated in RDPP for 400 m protective works and 94.25 m end termination works did not start immediately, nessecery action should be taken against the contractor within short time. iii) The remaining dredging works of the project have to complete within the project period. iv) Placing of C.C. block should execute under strong monitoring. v) The Khoa filter used during c. c. block placing work above geo-textile filter should be in good quality complying with the specification. vi) All the physical works of the project should be copleted as per approved design and specification. vii) Meetings of PIC & PSC should be held in regular basis and the decisions of the meeting should be in immediate effect. viii) The total budget required for the completion of the project should be confirm in RADP.
(c) Others: (Please specify)			

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
N/A	N/A	N/A	N/A



2.2. External Audit:

Audit period	Date of submission of Audit Report	Major findings/ objections	Whether objections resolved or not.
1	2	3	4
2017-18	-	-	-
2018-19	22-12-2019	-	-
2019-20	12-11-2020	-	-
2020-21	Not Yet Scheduled	-	-

G. DESCRIPTIVE REPORT

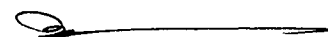
1. General Observations/Remarks of the Project on:

1.1 Back ground:

Bangladesh is a riverine country and bank line erosion of different rivers has been a recurrent effect. The present project is located at the downstream of Elashin Bridge in Upazila Delduar & Nagorpur and about 17 km south of Tangail district town. The area is dispersed in the left bank of the Dhaleswari River. The Brahmaputra-Jamuna River is the largest river system in Bangladesh accounting for more than 50% of the total inflow into the country from cross border. Dhaleswari is the branch river of Jamuna. The river is braided in nature without any fixed banks as well as frequently shifting channels. Thus process of bank erosion has been a complex and devastating consequent with deleterious social and natural impacts viz. loss of lives and properties due to river erosion and/or dynamic changes of the river morphology. Devastating bank erosion occurred at Gach-Kumulli, Baropakhia of Delduar upazila and Ghonapara of Nagorpur upazila since the construction of the bridge over Dhaleswari river at Elashin. The embankment of Babupur-Lauhati FCD project is also under threatened by the continuous erosion of the Dhaleswari river. During the sudden flood of 2015 water level in Dhaleswari river increased very rapidly which leads severe erosion to the embankment. The slope and crest of the embankment at Gach-Kumulli has engulfed into the river due to erosion. Considering the intensity/velocity of river erosion rate at these affected places, it seems that the said affected segment of Gach-Kumulli, Baropakhia and Ghonapara along with the embankment of Babupur-Lauhati FCD Project are supposed to be washed out into the river unless emergency permanent revetment work to be constructed within present financial year. The existing embankment of Babupur-Lauhati FCD project is the sole way of road communication from Elashin and its surrounding areas to Lauhati and Nayachar bazaar. In the situation, the road communication of that locality will be disrupted by the continuous threat of riverbank erosion at the affected place. Besides, vast important local area under Delduar and Nagorpur Upazila in the district of Tangail will be affected by the severity of seasonal floods. On the other hand, vast arable lands will be adversely affected for reduction of soil fertility by land deposition due to intrusion of flood water with sands.

1.2 Justification/Adequacy

Bangladesh is a densely populated with poor natural resources base, lack of industrialization and vulnerability to natural disasters; like flooding, river bank erosion, saline inundation and cyclones etc. made Bangladesh as one of the undeveloped countries in the world. The major problem responsible for poverty includes high level of landlessness due to river bank erosion (i.e. population displacement and potential erosion damages and losses to productive agricultural and urban land and severs damage to property and infrastructure), recurrent floods, unemployment, illiteracy and malnutrition. The population of the Project area is very dense (about 1085 per square kilometer) and landless population



is about 20-30% who are now living as squatters in flood embankment and other Govt. areas. Socio-economic development of the people through agriculture and business generation development providing flood control support and protection of potential lands, infrastructures of urban and rural areas from erosion damages is the main objective to alleviate poverty of the area. The proposed Project is placed in environmental screening category B since its bank protective works by construction of improved bank revetment work; do not create irreversible and diverse adverse physical and social impacts. Identifiable adverse impacts would be confined to the implementation period, and shall occur primarily in one or two construction seasons each lasting several months. As such, the proposed interventions by providing river bank protective work and development of embankment have very little impacts or no negative impacts in and around the area. The proposed project would prevent the erosion loss of about 560 ha of riparian land including about 70 hac. of urban and semi-urban built-up area in the vicinity of Gachh-Kumulli, Baropakhia & Ghonapara areas of Delduar & Nagorpur Upazilla of Tangail Distict and protect a population of about 70000 people from loss of land, livelihood, property, displacement and impoverishment. It would also prevent severe flood damage to crops, property and infrastructure as a result of embankment breached induced increased flooding from the Dhaleshwari River, a tributary of mighty Jamuna River.

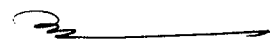
1.3 Objectives

Main objectives of the project are:

- To arrest river bank erosion and flood protection coverage by construction of River Bank Protection works for a length of 2.530 km (from km 10.920 to km 13.450) and dredging of Dhaleswari river for a length of 7.450 km (km 1.000 to km 8.450) to protect the embankment, Gach-Kumulli, Baropakia & Ghonapara area in Upazila Delduar & Nagorpur Dist-Tangail.
- Safeguard the BWDB's embankment of Babupur-Lauhati FCD Project cum road and different Government & Non-government establishments, educational & religious institutions, homestead and cultivatable lands.
- Safeguard security against adverse situation in economy of the locality due to the erosion of river bank; and
- It is anticipated that huge immovable properties situated in and around the eroding bank of the river with approximate total worth of Tk. 39990.00 lakh which are supposed to be adversely affected will be saved by the proper implementation of the project throughout construction of 2.530 km protective works under the project.

1.4 Project revision with reasons

The DPP of the project had been prepared on the basis of approved design and drawings which were also prepared and approved on the basis of design data & information collected by the concern field officials during the year 2014-15. The Government order (GO) of approving the DPP of the project had been issued on 24 August, 2017 with the implementation period from January 2017 to 30 June 2019. It had been observed that the river bank erosion increased significantly during the last two rainy seasons just due to the hydromorphological change of the river before the approval of DPP of the project. After mobilizing, the contractors requested the concerned field office to set the alignment practically in the work site. During the alignment set-forth, it was observed that about two-third portion of the embankment cross-section had to cut to make the 1:2 slope for the revetment work of the protective work. Also, the Mosque, road, Hous-hold etc would have to shift towards countryside. Therefore, observation from the local stakeholder came into effect that the properties which should be protected from the riverbank erosion of Dhaleshwari River. The shifting of the existing properties to implement the protective works was not possible due to constraint of land. So, considering the



existing condition the work had to implement which needed to revise the design. As per approved revised design and prevailing condition, the estimated cost had increased. To allocate the additional cost over the provision, the DPP of the project needed to process for revision. The revision was approved by the competent authority. Therefore, the revision of DPP of the project was justified.

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

Implementation of 2.53 Km. Protective Work & 7.45 Km Dredging will save the lives and valuable properties under the project area along with the important Embankment of Babupur-Lawhati flood control & Drainage project a successful completed project of BWDB at Delduar upazila of Tangail District.

The nature and objective of the project have direct relevance of the national objectives of attaining self-reliance in food grain production, generation of rural development, poverty alleviation especially for rural poorer section, creation social & environmental balance and building economic infrastructures for the future generations to sustain.

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

◆ Project Identification

The security of the embankment of Babupur-Lauhati flood control and drainage project along with the area of Gachh-Kumulli, Baropakia & Ghonapara in Upazila Delduar & Nagorpur of Tangail District is seriously threatened by continued bank erosion of Dhaleswari River which needs immediate protection by construction of improved bank revetment work on priority basis. Therefore, the project was identified to save existing infra-structures and households from the devastating erosion of Dhaleswari River. The erosion had been serious just immediate after the construction of Elashin bridge on Dhaleswari River about 1.00 km upstream of the project area. The project identification had been justified by the Technical Committee of BWDB.

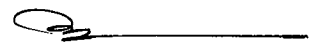
◆ Project Preparation

The Project was prepared on the basis of the Demi Official letter of the Member of the Parliament Tangail-6 Constituency and placed approval to Planning Commission. The project was prepared to implement from financial year 2016-17 to 2018-19 with a project cost 11427.19 lakh BDT. The two main components (i) River Bank Protective works and (ii) Dhaleswari River Dredging were included in the DPP of the project. Three-year program of implementing 2.130 Km. Protective Works and 7.45 Km (3609600 cum) dredging of Dhaleswari river were plan to implement within that three year project periods. The project was prepared for implement the civil works under the full financing of GoB. There was no donor or project aid for this project.

◆ Appraisal

The Project appraisal meeting was held at the irrigation wing of Planning Commission on July, 2017. As per decision of appraisal Committee meeting DPP was recast and sent to the Ministry of Planning for approval and the Project was approved in ECNEC meeting held on 20.09.2017.

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



◆ **Project Approval.**

The DPP of the project got approval by ECNEC on August 2017 with an implementation period from January 2017 to June 2019 and a Project Cost 11427.19 Lakh BDT. The revised DPP of the project got approval by honorable Minister of state of MoWR on 24 June, 2019 and a revised Project Cost 12489.05 Lakh BDT.

◆ Others (if any). -N/A

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 stockholders 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 done from the regular O & M allocation.

4.4 **Impact of the project -**

4.4.1 Direct:

Protect the river bank from erosion and reduce the threat.

4.4.2 Indirect:

Environmental enhancement from river erosion hazard consequently sustainable socio-economic enhancement.

4.5 **Transfer of Technology and Institutional Building through the project:** Not applicable

4.6 **Employment generation through the project:**

Employment generation for skilled and unskilled about 10 lac mandays during the project 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:**

Possibility of the women employment is also there.

4.9 **Women's participation in development:** Yes

4.10 **Probable Impact on Socio-Economic activity:**

Due to the protection of river bank erosion various types of infrastructures have been saved. Hence, socio-economic balance in the locality has been achieved.

4.11 **Impact on environment:**

Environmental enhancement has been achieved through the implementation of the project. Bank erosion hazards of environment has been eradicated.

4.12 **Sustainability of the project:**

The project will be sustainable provided some periodic maintenance is ensured.

4.13 **Contribution to poverty alleviation/reduction:**

The project fulfilled following benefits in compatible strategic goal i.e, a) reduction of vulnerability to water related disaster, b) manage erosion of Dhaleawari river and



protect growth centres, government & no-government establishment and households insuring poverty alleviation as PRS.

(1) The project ensures immovable properties of total worth of Tk. 39990.00 lakh.

(2) It generated employment for skilled/unskilled during construction period and in annual O & M phase in project performance. Also, better employment access in business territory sectors are enhanced.

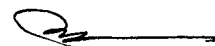
(3) Natural security against river Bank erosion is restored.

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.



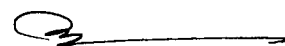
5. Problems encountered during Implementation (with duration & steps taken to remove those)

5.1	Project Management: Didn't arise.	5.12	Project aid disbursement and re-imbursment: N/A.
5.2	Project Director: Didn't arise.	5.13	Mission of the development partners. N/A.
5.3	Land Acquisition: N/A.	5.14	Time & Cost Over-run: Time over-run by 80.00% and cost over-run by (-) 17.02%. It was occurred due to Covid-19 situation and some natural calamities like flood.
5.4	Procurement: Didn't arise.	5.15	Project Supervision/Inspection: Not arisen.
5.5	Consultancy: N/A.		
5.6	Contractor: Not arise		
5.7	Manpower: Didn't arise	5.16	Delay in Decision: Not arisen.
5.8	law & Order: Not arise	5.17	Transport: N/A.
5.9	Natural calamity: Problem was arisen due to sudden flood	5.18	Training: N/A.
		5.19	Approval: N/A.
5.10	Project financing, allocation and release: Didn't arise	5.20	Others.
5.11	Design formulation/approval: Didn't arise.		

6. Remarks & Recommendations of the Project Director:

The Project was approved on 17-08-2017 in ECNEC meeting keeping the provision of river bank protective work in 5 packages and dredging of Dhaleswari river in 4 packages under OTM method. Tender for protective work in 5 packages were floated in Decmeber, 2017 and contract was signed in March, 2018 and for the same. Tender for dredging of two packages were floated in 2018 and contract was signed in the same year. As per procurement plan the tender of the remaining two packages were floated in 2019 and contract was signed in the same year. The DPP was formulated in the year 2015 but it approved in 2017. It had been observed that the river bank erosion increased significantly during the last two rainy seasons due to the hydromorphological change of the river before the approval of DPP of the project. After mobilizing, the contractors asked the concerned field office to set the alignment practically in the work site. During the alignment set-forth, it was observed that about two-third portion of the embankment cross-section had to cut to make the 1:2 slope for the revetment work of the protective work. Also, the Mosque, road, Hous-hold etc would have to shift towards country side. Besides, the bank line of the river shifted leading increase of erosion length. The shifting of the existiong properties to implement the protection works was not possible due to constraint of land. So, considering the existing condition the work had to implement which needed to revise the design. As per approved revised design and prevailing condition the cost estimate has increased. To minimize the additional cost the DPP of the project needed to go for revision. The revision was approved by the competent authority. Hence, the DPP of the project needed to go for a revision. The revised DPP was approved by competent authority.

After successful implementation of the peoject the embankment of Babpupur-Lauhati FCD project, Gachkumulli, Baropakhia and Ghonapara area of Delduar and Nagorpur Upazila has been fully secured and the goal of river bank erosion protection is fully achieved. The only one road cum embankment connecting to Nayachar bazar, Nayachar growth centre. Due to the protection the safety of public properties, livelihood has been improved.



Recommendations: The Dhaleswari river is a huge silt carrying river. Every year huge amount of silt deposits on the river bed. As a result, the conveying capacity of the river is decreasing day by day which leads erosion on the river bank and change of river morphology. So proper monitoring and maintenance of the revetment works should be continued to ensure the sustainability of the project. For this adequate maintenance budget will be needed.

Date:

Signature and seal of the Project Director

মোঃ শাইফা হান সিরাফ
প্রোগ্রামার ও কোর্সার
রমজান সিদ্দিক পণ্ডিত সাবেক
পাউসো মন্ত্রনালয়

7. Remarks/Comments of Agency Head

This project has ensured a safeguard against river erosion to the existing road cum flood control embankment of BWDB's Babupur-lauhati project, vast agricultural lands, homesteads and immovable public and private establishments worth 39990 lakh taka in Delduar and Nagarpur Upazila of Tangail. Dredging of Dhaleswari River has diverted the flow from protected riverbank and hence, it has reduced erosion threat in the project area.

Date:

Signature and Seal

(FAZLUR RAHMAN)
Director General
BWDB, Dhaka.

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

Date:

Signature and Seal

