

IMED : 04/2003 (Revised)



BANGLADESH WATER DEVELOPMENT BOARD

PROJECT COMPLETION REPORT

IMED FORM NO.: - 04/2003 (Revised)

NAME OF PROJECT: WEST GOPALGANJ INTEGRATED WATER MANAGEMENT PROJECT.

DIVISION ∴ GOPALGANJ O&M DIVISION, BWDB, GOPALGANJ.
CIRCLE ∴ FARIDPUR O&M CIRCLE, BWDB, FARIDPUR.
ZONE ∴ WESTERN ZONE, BWDB, FARIDPUR.

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 : West Gopalganj Integrated Water Management Project
02. Administrative Ministry/Division : Ministry of Water Resources
03. Executing Agency : Bangladesh Water Development Board (BWDB)
04. Location of the Project : Upazila-Kashiani & Gopalganj Sadar, District-Gopalganj.
05. Objective of the Project :
- Ensure safety of at least one crop (Boro) from irrigation scarcity/drought, salinity intrusion (for some areas) and early flood for the entire area;
 - Reduce flood depth during monsoon to facilitate T. Amon cultivation;
 - Re-excavation of the major rivers, especially the Kumar, Moharajpur Khal, Bolugram -Tetulia Khal and Taltala Hatiara Khal to improve drainage capacity and dry period flow for irrigation;
 - Re-excavation of the prominent khals to facilitate availability of irrigation water at field level;
 - Construct bank protection/ revetment works at vulnerable erosion points on the bank of MBR Channel and Modhumoti River.
 - Construct submersible embankment at selected locations to protect salinity intrusion and high tide into the project area and to ensure boro crop production;
 - Preserve fish habitats/ fish sanctuaries in selected beels and baor areas like Chandler Beel.
 - Construction of HBB Road for easy Transporting of Goods from cultivable area to local hat/Bazaar and to improve environmental facility of project area which will be treated as inspection road.
 - Construction of Bridge/Culvert for improvement of road communication in project area for easy transportation of goods to local Hat/Bazaar.
 - Filling of low laying land at different institutional yard in the project area.

06. Estimated Cost :

	(In lakh Taka)	
	Original	Latest Revised
(a) Total	12213.93	13410.82
(b) Taka	12213.93	13410.82
(c) Foreign Currency	0.00	0.00
(d) Project Aid	0.00	0.00
(e) RPA	0.00	0.00

07. Date of Approval :

PCP	PP
-----	----

(a) Original :

17 June, 2014

(b) Latest Revised :

09 October, 2016

08. Implementation Period :

	Date of Commencement	Date of Completion
(a) Original	July 2014	June 2016
(b) Latest Revised	July 2014	June 2017
(c) Actual	July 2014	June 2017

09. Financing Arrangement (Source-wise):

9.1 Status of Loan/Grant:

a) Foreign Financing : No foreign financing was used.

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
Not Applicable							

b) GOB :

(In lakh Taka)

Total amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
13410.82	-	13410.82	-

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
Not Applicable						

9.3 Re-imburseable 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
Not Applicable					

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

Implementation Period as per PP		Actual Implementation period	Time Over-run (% of original implementation period)	Remarks
Original	Latest Revised			
1	2	3	4	5
July-2014 to June-2016	July-2014 to June-2017	July-2014 to June-2017	50.00%	DPP had to be revised with time extension due to the local demand of inclusion of some more physical works.

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	12213.93	13410.82	10411.13	(-) 14.80 %	Volume of earthwork that has been re-excavated was lessened due to the morphological changes of the river.
TAKA	12213.93	13410.82	10411.13		
PA	--	--	--		

03. Project Personnel :

Sanctioned strength as per PP	Manpower employed during execution	Status of the existing manpower			Manpower Employed	
		Manpower requirement for O&M as per pp	Existing manpower for O & M	Others		
1	2	3	4	5	Male	Female
Officer (s)	Existing manpower of the implementing agency were deployed during execution of the project. No separate manpower is needed for the project.					
Staff(s)						
Total :						

04. Training of Project Personnel (Foreign/Local) : There were no provisions of training or workshop of the project personnels under this project.

Field of Training /Study tour/workshop/Seminar etc.	Provision as per PP		Actual		Remarks
	Number of person	Man – months	Number of person	Man - months	
1	2	3	4	5	6
a. Foreign	N/A	N/A	N/A	N/A	
b. Local	N/A	N/A	N/A	N/A	

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

(In lakh Taka)

Items of work (as per PP)	Unit	Target (as per PP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
A. Revenue Component:						
Petrol and Lubricant	Item	20.00	1 Item	19.96	1 Item	
Printing & Publication	Item	8.00	1 Item	8.00	1 Item	
Office Stationery, Seal & Stamps	Item	8.00	1 Item	7.98	1 Item	
Training (Gate Operator & Water Management Group)	Item	15.00	1 Item	9.90	1 Item	
Survey & investigation	Item	15.00	1 Item	14.99	1 Item	
Future Planning Study	Item	81.00	1 Item	81.00	1 Item	
Mid Term Evaluation	Item	15.00	1 item	15.00	1 Item	
Honararium	Item	5.00	1 Item	4.96	1 Item	
Repair & maintenance of existing vehicles	Item	8.00	1 Item	7.96	1 Item	
Sub Total (A) :		175.00		169.75		
B. Capital Component						
Jeep (2300 cc, 1 No, Manufactured by Progati)	Nos	75.00	1 Nos.	74.99	1 Nos.	
Motor Cycle (125CC)	Nos	9.00	6 Nos	9.00	6 Nos	
Photocopier	Nos	1.50	1 nos	1.50	1 Nos	
Brand Computer with Laser Printer & accessories (One Laptop, One Desktop Computer & Two Laser Printer-2 nos)	Nos	2.50	2 Nos	2.50	2 Nos	
Afforestation	Item	30.00	1 Item	20.00	1 item	
Construction of Inspection Road (HBB)	km	258.10	7.50 km.	230.46	6.55 km	As LGED has been constructed the road remaining portion.
Rehabilitation of Existing structures (Building) Bhaban, Barac, Resthouse, Godown)	Nos.	120.47	23 nos.	98.72	23 nos.	
Repair of Drainage cum Flushing Regulator (1vent-1.50mx1.80m)	Nos.	50.00	6 nos.	37.78	6 nos.	
Re-excavation of Khal/River (Earth work: 7370000cum)	km.	8051.96	238.34 km.	5301.44	238.34 km.	Khal/river have been re-excavated along the full length as per design. As lesser re-excavated volume of earth have saved the purpose. Hence scope of work has minimized.
Construction of Submersible Embankment (Earth work : 173000 cum)	km.	559.51	16.050 km.	517.72	16.05 km.	
River Bank Protective Works	km.	4057.78	3.050 km.	3927.27	3.050 km.	
O&M during Construction	item	20.00	1 item	20.00	1 item	
Sub-Total (B) :		13235.82		10241.38		
Total (A+B) :		13410.82	100.00%	10411.13	90.50%	

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. Shahabuddin Ahmed, Superintending Engineer Scale: 25750-33750	Full time	--	Yes	21-09-2014	27-08-2015	
Mr. I M Reazul Hasan; Superintending Engineer Scale: 50000- 71200	Full time	--	Yes	09-09-2015	28-07-2016	
Mr. Abdul Hekim Superintending Engineer Scale: 50000- 71200	Full time	--	Yes	28-07-2016	30-06-2017	

07. Procurement of Transport (in Nos.):

Type of transport	Number as per P.P.	Procured with date	Transferred to Transport Pool with date	Transferred to O&M with date	Condemned/ damaged with date	Remarks
1	2	3	4	5	6	7
Motor Cycle (100cc)	6 Nos.	10-03-2015	--	--	--	
5 door Jeep	1 Nos	June/2016	--	--	--	

08. Procurement of Goods, Works and Consultancy Services:**08.1 Goods & Works of the Project costing above Tk. 200.00 lakh and Consultancy above Tk. 100.00 lakh :**

Description of procurement (goods/works/consultancy) as per bid document	Tender/Bid/Proposal Cost (in crore 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
Protective work along the left Bank of Madhumati River from km 0.000 to km 0.300 = 300 m at Joynagar area in UpazilaGopaganjSadar, District Gopalganj under West Gopalganj Integrated Water Management Project during the year 2014-2015.[ePack-WG-PW-JNG-17/14-15& ID-22173]	4.45	4.45	04-07-15	06-08-15	30-06-16	30-06-16
Protective work along the left Bank of Madhumati River from km 0.300 to km 0.660 = 360 m. at Joynagar Area in UpazilaGopaganjSadar , DistrictGopalganj under West Gopalganj Integrated Water Management Project during the year 2014-2015. [ePack-WG-PW-JNG-18/14-15& ID-22174]	5.09	5.09	04-07-15	06-07-15	30-06-16	30-06-17
Protective work along the Left Bank of Madhumati River from km 0.000 to km 0.300 = 300m. atTalaKekania Bazar in C/W West Gopalganj Integrated Water Management Project, Polder-201, Under Gopalganj O&M Division, BWDB, Gopalganj during the year 2014-15. [ePack-14-WG-PW-TKK-2014-15& ID-22076]	4.78	4.78	04-07-15	06-07-15	30-06-16	30-06-16
Protective work along the Left Bank of Madhumati River from km 0.300 to km 0.600 = 300 m. at TalaKekania Bazar in C/W West Gopalganj Integrated Water Management Project, Polder-201, Under Gopalganj O&M Division, BWDB, Gopalganj during the year 2014-15. [ePack-15-WG-PW-TKK-2014-15& ID-22165]	3.73	3.73	04-07-15	06-07-15	30-06-16	30-06-16
Protective work along the Left Bank of Madhumati River from km 0.600 to km 0.940 = 340 m. at TalaKekania Bazar in C/W West Gopalganj Integrated Water Management Project, Under Gopalganj O&M Division, BWDB, Gopalganj during the year 2014-15. [ePack-WG-PW-TKK-16/14-15& ID-22167]	4.45	4.45	04-07-15	06-07-15	20-06-16	30-06-17

Description of procurement (goods/works/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 PP	Contracted value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Protective Work along the Right Bank of MadaripurBeelRute Channel from km 0.000/15.320 to km 0.400/15.720 = 400 m. at Malenga in UpazillaGopalganjSadar, Dist:-Gopalgonj Under Gopalganj O&M Division, BWDB, Gopalganj. During the year 2014-15. [ePack-WG-PW-MLG-19/14-15 & ID-22195]	5.19	5.19	04-07-15	06-07-15	20-06-16	30-06-17
Protective Work along the Right Bank of MadaripurBeelRute Channel from km 0.400/15.720 to km 0.750/16.070 = 350 m. at Malenga in UpazillaGopalganjSadar, Dist:- Gopalgonj Under Gopalganj O&M Division, BWDB, Gopalganj during the year 2014-15.[ePack-WG-PW-MLG-20/14-15 & ID-22194]	4.91	4.91	04-07-15	06-07-15	26-06-16	30-06-17
Protective Work along the right Bank of MadaripurBeelRute (MBR)Channel from km 0.130 to km 0.480 = 350.00 m at Sindhiaghat of Fatepur area in UpazillaMuksudpur, District- Gopalganj Under polder no-5 in c/w West Gopalgonj Integrated Water Management Project underGopalgonj O&M Division, BWDB, Gopalganj during the FY 2015-16. [e-Tender-WG-Singdgh-PW-15/2015-16 & ID-34393]	4.78	4.78	26/10/2015	12-07-15	30-06-16	30-06-17
Protective Work along the right Bank of MadaripurBeelRute (MBR)Channel from km 0.480 to km 0.830 = 350.00 m at Sindhiaghat of Fatepur area in UpazillaMuksudpur, District- Gopalganj Under polder no-5 in c/w West Gopalgonj Integrated Water Management Project underGopalgonj O&M Division, BWDB, Gopalganj during the FY 2015-16. [e-Tender-WG-Singdgh-PW-16/2015-16 & ID-34394]	4.29	4.29	26/10/2015	12-07-15	30-06-16	30-06-17
Re-excavation of TaltalaHatiaraKhal from km. 17.200 to km. 20.200 = 3000m. in C/W with West GopalganjIntigrated Water Management Project Under Gopalganj O&M Division, BWDB, Gopalganj. During the year 2014-15. [ePack-WG-RE-TTH-32/14-15 & ID-22234]	2.1	2.1	04-07-15	25/6/2015	30-06-16	30-06-17
Re-excavation of TaltalaHatiaraKhal from km. 20.200 to km. 23.700 = 3500m. in C/W with West GopalganjIntigrated Water Management Project Under Gopalganj O&M Division, BWDB, Gopalganj. During the year 2014-15. [ePack-WG-RE-TTH.2-33/14-15 & ID-22235]	2.46	2.46	04-07-15	28/6/2015	30-06-16	30-06-17
Re-excavation of TaltalaHatiaraKhal from km. 23.700 to km. 27.200 = 3500m. in C/W with West GopalganjIntigrated Water Management Project Under Gopalganj O&M Division, BWDB, Gopalganj. During the year 2014-15. [ePack-WG-RE-TTH.3-34/14-15 & ID-22236]	2.43	2.43	04-07-15	29/6/2015	30-06-2016	30-06-17
Re-excavation of Re-excavation of (a) UzaniKhal from km. 0.000 to km. 1.650 =1.650km; (b) AsnerkilaKhal from km. 0.000 to km. 1.000 = 1.000km; (c) RatailKhal from km. 0.000 to km. 2.850 = 2.850km. (d) TetuliaKhal from km. 0.000 to km. 4.200 = 4.200km. Grand Total (a+b+c+d)= 9.700km. in Connection with West Gopalganj Integrated Water Management Project Under Gopalganj O&M Division, BWDB, Gopalganj During the year 2015-16 (e-Tender ID No-35192) (package No eTender-WG-UzARTkhal-Rex-18/2015-16)	2.082	2.08	11-05-15	25/2/2016	30-06-2016	30-06-17
Re-excavationof Kumar River from km 65.900/79.550 to km 60.600/84.850 =5.300 km in Upazila -Muksudpur, District-Gopalganj under Gopalganj O&M Division,BWDB, Gopalganj Under WestGopalganj Integrated water Management Project during the year 2016-2017.e-Tender ID No-81724	4.24	4.24	01-12-17	13/3/2017	30-06-17	30-06-17
Re-Excavation of Bolugram-Tetuliakhal from km.0.000 to km 3.500 in Upazila - Kashiani, District- Gopalganj under Gopalganj O&M Division,BWDB, Gopalganj Under West GopalganjIntetegrated water Management Project.[ePack-WG-RE-BGT-29/14-15 & ID-22210]	2.6	2.6	04-07-15	25/6/2015	30-06-16	30-06-17
Reexcavationof Kumar River from km 71.200/74.250 to km 65.900/79.550 total 5.300 km in Upazila -Muksudpur, District-Gopalganj under Gopalganj O&M Division BWDB Gopalganj Under WestGopalganj Integrated water Management Project during the year 2016-2017, e-Tender ID No-81722.	4.24	4.62	01-12-17	03-06-17	30-06-17	30-06-17

Description of procurement (goods/works/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 PP	Contracted value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Re-excavation of Kumar River from km 49.100/96.350 to km 43.000/102.450 = 6.100 km in Upazila -Muksudpur, District- Gopalganj under Gopalganj O&M Division, BWDB, Gopalganj Under West Gopalganj Integrated water Management Project during the year 2016-2017, e-Tender ID No-81726	4.24	4.38	01-12-17	03-12-17	30-06-17	30-06-17
Re-excavation of Kumar River from km 60.600/84.850 to km 55.200/90.250 = 5.400 km in Upazila -Muksudpur, District- Gopalganj under Gopalganj O&M Division, BWDB, Gopalganj Under West Gopalganj Integrated water Management Project during the year 2016-2017, e-Tender ID No-81723.	4.24	4.24	01-12-17	13/3/2017	30-06-17	30-06-17

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	N/A	N/A	
b) Local (Future Plan Study by IWM)	19.5	19.5	19.5	

09. Construction/Erection/Installation Tools & Equipment:

Equipment: Survey Instrument.

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
Leveling Instrument with accessories	1 set	3 April/2015	--	05-07-2017	--	
Levelling Staff	5 nos.	5 June/2015	--	05-07-2017	--	

Equipment: Office Equipment.

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
Multimedia (Projector with screen & stand)	1 no	8 June/2015	--	05-07-2017	--	
Photocopier	1 no	8 June/2015	--	05-07-2017	--	
Computer Brand: Pentium (1 Nos. & 1 No. Laptop, Laser printers with UPS)	2 nos	8 June/2015		05-07-2017		

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	5619.00	5619.00	-	45.00%	998.18	998.18	-	10.00%
2015-16	6594.93	6594.93	-	55.00%	5675.50	5675.50	-	35.00%
2016-17	0.00	0.00	-	0.00%	6737.14	6737.14	-	55.00%
Total	12213.93	12213.93	-	100.00%	13410.82	13410.82	-	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
2014-15	1000.00	1000.00		10.00%	1000.00	998.18	998.18		10.00%
2015-16	5700.00	5700.00		35.00%	5700.00	5674.97	5674.97		63.00%
2016-17	5100.00	5100.00		55.00%	5100.00	3737.98	3737.98		17.50%
Total =	11800.00	11800.00		100.00%	11800.00	9512.77	10411.13		90.50%

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Objectives as per DPP	Actual achievement	Reasons for shortfall, if any
Ensuring safety of at least one crop (Boro) from irrigation scarcity/drought, salinity intrusion (for some areas) and early flood for the entire area;	Owing to re-excavation of the Khals and major rivers, safety of the crop could be ensured by maintaining water availability for 43074 Ha Land areas.	No Shortfall
Reducing flood depth during monsoon to facilitate T. Amon cultivation;	Due to re-excavation of the khals, proper drainage facility could be ensured resulting in the reduction of flood depth and facilitation of T Amon cultivation..	
Re-excavation of the major rivers, especially the Kumar, Moharajpur Khal, Bolugram -Tetulia Khal and Taltala Hatiara Khal to improve drainage capacity and dry period flow for irrigation;	Owing to re-excavation of the Khals and major rivers, safety of the crop could be ensured by maintaining water availability for 43074 Ha Land area.	
Re-excavation of the prominent khals to facilitate availability of irrigation water at field level;	Owing to re-excavation of the Khals and major rivers, safety of the crop could be ensured by maintaining water availability for 43074 Ha Land area.	
Constructing bank protection/ revetment works at vulnerable erosion points on the bank of MBR Channel and Modhumoti River.	Huge area(approximately 20000 Ha) was saved from the risk of river bank erosion.	
Constructing submersible embankment at selected locations to protect salinity intrusion and hightide into the project area and to ensure boro crop production;	Submersible embankment constructed at designated places which resulted in inhibition of salinity intrusion.	
Constructing of HBB Road for easy Transporting of Goods from cultivable area to local hat/Bazaar and to improve environmental facility of project area which will be treated as inspection road.	HBB road constructed which helped in easier communication for the rural people.	

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).
Drainage facilities improved	Ha.	62207	Yet to be evaluated.
Protection to saline water intrusion	Ha.	45996	
Protection the bank erosion.	Km.	3.050	
Incremental growth of food grain	M.Ton	55000	
Public & private infrastructure protected from river bank erosion	Nos.	600000	
Transportation system developed.	Km.	6.550	

02. Cost / Benefit :

Item	Estimated	Actual
(1) Benefit cost ratio of the project		
(i) Financial	(i) 2.87 : 1.00	Will be evaluated later by BWDB's concerned office & IMED.
(ii) Economic	(ii) 3.96 : 1.00	
(2) Internal Rate of Return		
(i) Financial	(i) 40.32%	
(ii) Economic	(ii) 52.66%	

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

F. MONITORING AND AUDITING**0.1 Monitoring:**

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
(a) Ministry/Agency: 1. D. Zafar Ahmed Khan, Senior Secretary, MoWR. 2. D. Mohammad Ali Khan, NDC, Additional Secretary, MoWR. 4. Mr. Ramesh Chandra Sen, Chairman, Standing Committee of MoWR.	21 June, 2016 & 08-09 January, 2017 31-10-16 to 01-11-16 & 24-25 May, 2017. 05-06 November, 2016	No Problem was identified during the execution of the Project.	All are Instructed to complete the project in time properly.
(b) IMED: 1. Md. Barkatur Rahman, Assistant Director, IMED. 2. Siddikur Rahman Director General, IMED	11-02-16 to 13-02-16 24-27 December, 2015 & 13-14 May, 2016	No Problem was identified during the execution of the Project.	IMED recommended implementing the Project within the stipulated completion time properly.
(c) Others : (Please specify) 1. Md. Abdul Latif Mia, Director General, BWDB. 2. Md. Ismail Hossain, Director General, BWDB. 3. Md. Jahangir Kabir, Director General, BWDB.	22-01-2016 03-06-2016	No Problem was identified during the execution of the Project.	Instructed to complete the project in time.

0.2. Auditing during and after Implementation:**2.1. Internal Audit:** No internal Audit was conducted.

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

2.2. External Audit : External Audit yet to be done.

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

G. DESCRIPTIVE REPORT

1. General Observations/Remarks of the Project on :

1.1 Background:

Madhumoti River along with MBR channel built in the British period is one of the most intricate hydrologic systems. In Modhumoti River, river erosion is a regular occurrence due to the prevalent river morphology. The bank erosion along this river system has deleterious social and economic impacts leading to loss of land and property, environmental degradation and human hazards.

Besides, Gopalganj district at its west is criss-crossed by numerous Khals which convey the water from Madhumati and MBR across the surface of this district which is like a life line for the agricultural productivity. Over years, due to natural siltation and human structural intervention and climate change, conveyance capacity of the Khals decreased to an alarming rate. All these added up to the current scenario where re-excavation of the Khals and the bank protection works turned out to be extremely necessary under the status-quo.

1.2 Justification/Adequacy:

The geographical position of Bangladesh is between the Himalayas and the Bay of Bengal together with the prevalence of tropical monsoon climate. The major three rivers: the Ganges-Padma, the Brahmaputra-Jamuna and the Meghna with their innumerable tributaries and distributaries form the characteristic features of the Bengal delta, most of which is occupied by Bangladesh. The catchment area of the major rivers is about 1.65 million square km of which only 7.50 percent lies within the border of Bangladesh that Generates 1200 km³ of run-off annually, only 10 percent of which is generated within Bangladesh (Sarker et al., 2003).

In addition to vast quantities of water, these rivers carry outabout 1.1 billion tons of sediment every year (EGIS, 2000; Sarker et al., 2003) and are responsible for the prevalence of flooding and river bank erosion in Bangladesh (Elahi, 1991). It is estimated that more than half (52 percent) of rural population are functionally landless and they have limited opportunity to cultivate their tiny land with more than two crops in a calendar year. In such a condition, any loss of land by a household is devastating. Annual inundation brings moisture, silt, and fertile soil for simple agriculture; but abnormal flooding and rapid river bank shifts seriously disrupt human settlement and activities. The socio economic impacts of river bank erosion are sticking as the numbers of marginalized peoples were increasing day by day.

River bank erosion has become a common phenomenon along with the major and Minor Rivers in Bangladesh mainly due to deltaic topography and it has been forcing people to migrate or resettle in areas which is more vulnerable. The annual flooding due to presence of Jamuna River is a blessing because it makes the land fertile but the magnitude of flood waters regularly causes river bank erosion. As the consequences, every year a sizeable population is affected by erosion. People not only lost their houses and agricultural lands but also became displaced often permanently and impoverished. The present study deals with the population migration and resettlement due to the environmental problem like river bank erosion. 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 within banklines.

1.3 Objectives:

- To Ensure safety of at least one crop (Boro) from irrigation scarcity/drought, salinity intrusion (for some areas) and early flood for the entire area;
- To Reduce flood depth during monsoon to facilitate T. Amon cultivation;
- Re-excavation of the major rivers, especially the Kumar, Moharajpur Khal, Bolugram -Tetulia Khal and Taltala Hatiara Khal to improve drainage capacity and dry period flow for irrigation;
- Re-excavation of the prominent khals to facilitate availability of irrigation water at field level;
- Constructing bank protection/ revetment works at vulnerable erosion points on the bank of MBR Channel and Modhumoti River.
- Constructing submersible embankment at selected locations to protect salinity intrusion and hightide into the project area and to ensure boro crop production;
- Preserve fish habitats/ fish sanctuaries in selected beels and baor areas like Chandler Beel.
- Construction of HBB Road for easy Transporting of Goods from cultivable area to local hat/Bazaar and to improve environmental facility of project area which will be treated as inspection road.
- Construction of Bridge/Culvert for improvement of road communication in project area for easy transportation of goods to local Hat/Bazaar.
- Filling of low laying land at different institutional yard in the project area.

1.4 Project revision with reasons:

As per instruction of higher authority of West Gopalganj Integrated Water management Project Director's (PD) Superintending Engineer, Faridpur O&M Circle, BWDB, Faridpur had been presided over the several meeting with the stack holder and also the Public representative of the project area. CEGIS & Kranti Associates Ltd. carried out a Feasibility Study & Mathematical Modelling, survey and investigation for the implementation of the project. During the study, the team arranged several workshops in Gopalganj, Kashiani & Muksudpur Upazila. In the study report they proposed for Re-excavation of 60 numbers drainage khals at different location which length and volume of earth differs with the approved DPP. As well as Maximum number of khals has been dropped out, several river erosion point have not incorporated in the DPP, Huge Number of road has not taken up for development of road communication, on the other hand Bridge/Culvert should be constructed for betterment of the project. But these have not been reflected in the study report prepared by CEGIS & Kranti associates Ltd. It may be mentioned here that location and type of work needs to be changed as per field requirements. The Additional Director General (West Region) visited the project and instructed to take necessary action to overcome all the bottlenecks of the project and to submit the revised DPP. Accordingly Project Director (PD) has been made out several public meeting with the Public representative. They submitted their demand note through Upazila Chairman. Accordingly a Revised DPP with estimated cost of TK.13410.82 lakh has been prepared to meet up the requirement of the Stakeholders.

In the open discussion at Upazila conference room local public representative of the project area raised some opinions regarding construction of HBB road and construction of Bridge/Culvert at different location of the project area. To resolve the matter and to reflect the people's opinions in project planning, as per instruction of the honorable Minister, MOWR and the Secretary, MoWR. and also the instruction of the honorable Director General, BWDB, Dhaka RDPP will be finalized by considering public opinion of the project area. Project Director/Superintending Engineer, Faridpur O&M Circle, BWDB, Faridpur with Executive Engineer, Gopalganj O & M Division, BWDB, Gopalganj set on an exclusive meeting with the project beneficiaries, public representatives, local elites including the media (both print and electronics) on 28-10-2015 at Kashiani UZ complex, on 28-10-2015 at Muksudpur UZ complex and on 30-11-2015 at Gopalganj Sadar UZ complex under the chair of Upazila Chairman, Kashiani upazila Parisad, Upazila Chairman of Muksudpur upazila Parisad and Upazila Chairman of Gopalganj Sadar Upazila Parisad. After a long discussion majority came to the understanding that providing adequate length of HBB road accordingly the RDPP was re-casted as per recommendation and estimation of the consultation with the stack holders. The approved cost of the original project was Tk.12213.93 lakh and implementation period was from July'2014 to June, 2016.

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

Huge number of people in West Gopalganj area (consisting of Kashiani & Gopalganj Sadar Upazilla) was suffering from the adverse effect of siltation up of khals. On the other hand, morphological changes of the river bed and the changed hydrologic scenario of the Madhumati river caused some serious river erosion along its banks which resulted in the displacement and even migration of the people from near the adjacent bank area. From these perspectives, the mentioned project was a boon to the existing people in particular and for the country economy in general.

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

♦ Project Identification:

There had been a long standing social demand by the vulnerable people for early execution of the project & Kranti Associates Limited provided a feasibility study to identify the project.

♦ Project Preparation:

Kranti Associates Limited provided a feasibility study report of the project prior to the DPP preparation.

♦ Appraisal : The project was appraisal by 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 project was approved by ECNEC on 17-06-2014 & and subsequent revision was approved on 09-10-2016.

♦ 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 stake holders are directly taking advantages of the created facilities of the project.

4.3 O & M programme of the project.:

Post Project recurrent O&M works will be arranged from the regular O&M allocation.

4.4 Impact of the project -

4.4.1 Direct :

- Abot 60000 nos infrastructure like houses, educational institution, mosques, roads, agricultural lands protection from river bank erosion of Madhumati river & Madaripur Beelroute Channel (MBR).

- ♦ Re-excavation of Khals will ensure water availability during the dry season which is ensuring the Drainage & Irrigation facilities around the project area 62207 hectare.

4.4.2 Indirect:

- Safety of human livelihood and properties.
- Improvement of socio-economic condition.

4.5 Transfer of Technology and Institutional Building through the project:

Not Applicable

4.6 Employment generation through the project:

A large number of skilled/unskilled workers were employed during construction period.

4.7 Possibility of Self employment :

There are possibilities of self employment as existing commercial and business centres are protected from river bank erosion.

4.8 Possibility of women-employment opportunity:

Yes, there is possibility of women-employment through the project.

4.9 Women's participation in development:

Yes.

4.10 Probable Impact on Socio-Economic activity. :

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

4.11 Impact on environment :

Environmental enhancement is achieved through the implementation of the project.

4.12 Sustainability of the project:

The project is sustainable but requires periodic maintenance.

4.13 Contribution to poverty alleviation/reduction :

- Huge public and private properties dispersed around the said erosion prone area with approximate total worth of Tk. 72098.00 lakh is saved from river bank erosion by the implementation of the project.
- It generated employment for skilled/unskilled workers during construction period and also in annual O&M phase. Also better employment access in business sector is enhanced.
- Natural security against river bank erosion is restored.
- Generation of crops became evident even during dry season due to ensured water availability.

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

There were no problems encountered during implementation of the project regarding the above facts.

6. Remarks & Recommendations of the Project Director:

The Project located in the flood basin of the rivers Modhumoti, Kumar & Madaripur Beel Route (MBR) channel. Total gross area of the project is 62207 ha. with a net benefite area of about 45996 ha. After the successful completion of the project " West Gopalganj Integrated Water Management Project" has been ensured safety of at least one crop (Boro) from irrigation scarcity/drought, salinity intrusion by constructing submersible embankment and early flood for the entire area. Flood depth during monsoon to facilitate T. Amon cultivation has been reduced. Drainage capacity & dry preoid flow for irrigation have been improved through re-excavation of major rivers and khals in the project area. The river bank erosion problem along the bank of MBR Channel and Modhumoti River has been mitigated. The project will also contribute to attain national self-sufficient in food grains which coincides with the major components of Sustainable Development Goal (SDG). Proper monitoring and regular maintenance of the submergible embankment, the revetment works and other necessary components should be continued to ensure the sustainability of the project. Otherwise the benefit of the project may be hampered.

Shan
19.09.17

Md. Shafi Uddin
Executive Engineer
Gopalganj O & M Division
BWDB, Gopalganj

Date : 19.09.17

Shan
24/09/17

Signature and seal of the Project Director/Manager

ABDUL HEKIM
Superintending Engineer
Faridpur O & M Circle
BWDB, Faridpur
&
Project Director

7. Remarks/Comments of Agency Head

238.34 km length of Khal/River has been re-excavated under this project. This has ensured safety to Boro crops from irrigation scarcity/drought, early flood on the project area. Improved drainage facilities on 62207 Ha area have reduced flood depth during monsoon to facilitate T. amon cultivation. Protection against saline water intrusion of 45996 Ha area has facilitated irrigation scopes. Also, about 600000 nos of public and private establishments have been saved from the risk of river erosion by implementing 3.050 km of river bank protection works. Thus this project contributes 55000 metric Ton of incremental food grain production from post project phase.

Date :

Signature and Seal

Shan
22/10/2019

(Md. Mahfuzur Rahman)
Director General
BWDB, Dhaka.

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

Date :

Signature and Seal