

BANGLADESH WATER DEVELOPMENT BOARD



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

Name of the Project: Rehabilitation of Polder no. 36/1 in Bagerhat
(2nd Revised).

PROJECT PERIOD: OCTOBER 2015 TO JUNE 2022.

DIVISION : Bagerhat O&M Division, BWDB, Bagerhat.

CIRCLE : Khulna O&M Circle, BWDB, Khulna.

ZONE : South-Western Zone, BWDB, Khulna.

October, 2022.

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** : Rehabilitation of Polder no. 36/1 in Bagerhat (2nd Revised).
- 02. Administrative Ministry/ Division** : Ministry of Water Resources (MoWR)
- 03. Executing Agency** : Bangladesh Water Development Board (BWDB).
- 04. Location of the Project** : Upazila: Mollahat, Fakirhat & Chitolmari, District: Bagerhat & Upazila: Rupsha, District: Khulna.

05. Objectives of the Project :

The main objectives of the project are-

- To increase agricultural production through drainage facilities and to protect crops from damage by improving drainage facilities within a net of 31,300 ha and gross 39130 ha land area;
- To improve socio-economic condition and reduce poverty of the people by preventing the intrusion of saline water in the project area;
- Employment creation, income generation and increase in living standard for the people in the project area.

06. Estimated Cost:

	Original	1st Revised	(In Lakh Taka) Latest revised (2 nd)
a) Total	28283.16	25697.73	20154.36
b) Taka	28283.16	25697.73	20154.36
c) Foreign Currency	-	-	
d) Project Aid	-	-	
e) RPA	-	-	

07. Date of Approval:

	PCP	PP
a) Original	-	05/01/2016.
b) 1 st Revised	-	11/11/2018.
c) No cost Time Extension	-	18/05/2020.
d) Latest Revised (2 nd)	-	03/03/2022.

08. Implementation period :

	Date of Commencement	Date of Completion
a) Original	October, 2015	June, 2019
b) 1 st Revised	October, 2015	June, 2020
c) No cost Time Extension	October, 2015	June, 2021
d) Latest Revised (2 nd)	October, 2015	June, 2022

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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	
						7	8
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
20154.36	-	20154.36	-

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/2015 to June/2019	October, 2015 to June, 2022	October, 2015 to June, 2022	80.00%	According to CCEA and CCGP approval, the procuring method was DPM at first. But, later on, procurement was completed through OTM method. As a result, implementation of the project delayed. Besides, Covid-19 pandemic situation also delayed the project implementation progress during the FY 2019-20 & 2020-21.




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	28283.16	20154.36	19477.95	(-) 31.13%	Due to omission of TRM & changes in design, the number of khals/ Rivers got reduced from 55 nos to 53 nos only. Also, lower quoted rate caused decrease in cost of works. Alongside, based on field requirement, total 142m Protective work was not implemented.
Taka	28283.16	20154.36	19477.95		
PA	-	-	-	-	

03. Project Personnel: Project work has been implemented by existing manpower of Bagerhat O&M Division, BWDB, Bagerhat. There is no provision of project personnel recruitment on this project.

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 was deployed during the execution of the project.					
Staff (s)						
Total						

Nil

04. Training of project Personnel (Foreign/Local): No provision of any sort of training in this project.

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
No Provision of Training in this project					

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 PP)	Unit	Target (as per DPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (%) / (Quantity)	Financial	Physical (%) / (Quantity)	
1	2	3	4	5	6	7
A. Revenue Component :-						
Petrol & Lubricant	LS	20.00	100%	19.99	99.96%	
Printing & Publication (Documents)	LS	5.00	100%	5.00	100%	
Seal & Stamps	LS	4.00	100%	4.00	100%	
Office Stationeries	LS	4.00	100%	4.00	100%	




Items of work (As per PP)	Unit	Target (as per DPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (%)/ (Quantity)	Financial	Physical (%)/ (Quantity)	
1	2	3	4	5	6	7
Publicity & Advertisement	LS	5.00	100%	5.00	100%	
Honorarium for different committee in /c TEC	LS	15.00	100%	15.00	100%	
Honorarium for Mid Term Evaluation comm.	LS	10.00	100%	10.00	100%	
Survey & Investigation	LS	75.00	100%	74.99	99.99%	
Miscellaneous	LS	8.00	100%	8.00	100%	
Repair & Maintenance of existing vehicles (jeep-3 nos. & Motor cycle-5 nos)	LS	10.00	100%	9.99	99.93%	
Sub Total (A):		156.00	100.00%	155.97	99.99%	
B. Capital Component						
Jeep (5doors) Progoti 2350 cc (1 no)	Nos	72.00	1	72.00	1	
Motor Cycle (3 nos)	Nos	4.49	3	4.49	3	
Brand Computer with Laser Printer & Accessories (2 nos); Laptop With Scanner (1 no)	Nos	5.00	3	5.00	3	
Office Furniture	LS	10.00	100%	9.99	100%	
Land Acquisition (0.32 ha)	Ha	46.00	0.32	46.00	0.32	
Construction / Re-construction of drainage/ flushing sluice (5 nos)	Nos	5081.74	5	4970.47	5	
Repair of existing Regulators / Sluices (21 nos)	Nos	546.90	21	546.90	21	
a) Re-excavation/Dredging of Bhairab river for removal of deposited silt:						
i) Mechanical dredging (1 km) by dredger from Fakirhat to Zatrapur	Km/ Cum	119.95	1.00 km/ 0.76 lac Cum	119.95	1.00 km / 0.76 lac Cum	
ii) Manual / Mechanical excavation (17.670 Km, Alaipur to Jatrapur)	Km/ Cum	2315.68	17.670 km / 14.17 lac Cum	2310.37	17.670 km/ 14.14 lac Cum	
b) Manual/ Mechanical Re-excavation other major Rivers/ Khals :						
i) Excavation chitra river (7km)	Km/ Cum	677.69	7.00 km / 3.39 lac Cum	676.98	7.00 km / 3.39 lac Cum	
ii) Excavation Mora Chitra river (12.130 km)	Km/ Cum	1269.72	12.130 km / 5.36 lac Cum	1217.65	12.130 km/ 5.12 lac Cum	
iii) Excavation of Old Madhumati (10.100 km)	Km/ Cum	319.22	10.100 km/ 1.78 lac Cum	307.84	10.100 km/ 1.17 lac Cum	
iv) Excavation of Haque channel (12.50 km)	Km/ Cum	683.79	12.50 km/ 4.08 lac Cum	679.16	12.50 km/ 3.54 lac Cum	
Re-excavation internal drainage khal (Manually / mechanically) (53 khals, 168.037km)	Km/ Cum	3705.51	168.037 Km/ 9.59 lac Cum	3499.32	168.037 Km/ 8.34 lac Cum	
River Bank Protective work (1.758 km)	Km	5090.67	1.758	4855.85	1.758	
Maintenance dredging/excavation of rivers/khals (LS)	LS	50.00	-	-	-	Maintenance dredging work was not necessary in the context of the reality of field Condition.
Sub Total(Capital Component)		19998.36	100	19321.97	99.50	
B :-						

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Items of work (As per PP)	Unit	Target (as per DPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (%)/ (Quantity)	Financial	Physical (%)/ (Quantity)	
1	2	3	4	5	6	7
(C) Physical contingency						
(D) Price contingency						
Grand Total (A+B+C+D) cost :-		20154.36	100.00%	19477.94	99.50%	

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
Md. Bazlur Rashid Superintending Engineer Khulna O&M Circle BWDB, Khulna Scale: 4th Grade (50000-71200)	Full time	-	Yes	29-03-2016	08-01-2018	-
Md. Abul Hossain Superintending Engineer Khulna O&M Circle BWDB, Khulna Scale: 4th Grade (50000-71200)	Full time	-	Yes	15-01-2018	14-09-2021	-
Md. Shafi Uddin Superintending Engineer Khulna O&M Circle BWDB, Khulna Scale: 4th Grade (50000-71200)	Full time	-	Yes	06-12-2021	Till Date	-

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	Condemn ed/damag ed with date	Remarks.
1	2	3	4	5	6	7
Jeep (5doors) Progoti 2350 cc Vehicle Number (Bagerhat Metro "GHA-11-0051")	01 Nos.	26-06-2016	-	Superintending Engineer Khulna O&M Circle BWDB, Khulna Date: 09-03-2017.	-	Being used by Superintending Engineer Khulna O&M Circle BWDB, Khulna for monitoring & supervision of the Project works.
Motor Cycle Vehicle Number (Bagerhat "HA-12-1873") (Bagerhat "HA-12-1874")	02 Nos.	30-06-2016	-	Bagerhat O&M Division, BWDB, Bagerhat. Date: 01/07/2022	-	Used by Sectional Officers for monitoring & supervision of the project works.
(Bagerhat "HA-12-6374")	01Nos	24-06-2018	-			

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/works /consultancy) as per bid document	Tender/Bid/Propo sal Cost (in crore Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per RDPP	Contracte d value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
River Bank Protective work along the Right Bank of Madhumati river from km 0.000 (8.330) to km 0.400 (8.730) total 0.400 km with D/S end termination at Parapur in connection with Rehabilitation of polder no-36/1 in Bagerhat District 1st revised under Bagerhat O&M Division BWDB Bagerhat (Package No- W-09).	11.47	11.50	31-01-2019	25-04-2019	10-08-2021	10-08-2021
River Bank Protective work along the Right Bank of Madhumati River from KM 0.400 (8.730) to KM 0.700 (9.030) total 0.300 KM at Parapur in connection with Rehabilitation of polder no-36/1 in Bagerhat District 1st revised under Bagerhat O&M Division BWDB Bagerhat. (Package No- W-10).	7.90	7.85	31-01-2019	13-05-2019	25-08-2021	25-08-2021
River Bank Protective work along the Right Bank of Madhumati River from KM0.700 (9.03) to KM 1.00 (9.330) total 0.300 KM with U/S end termination at Parapur in connection with Rehabilitation of polder no-36/1 in Bagerhat District 1st revised under Bagerhat O&M Division BWDB Bagerhat. (Package No- W-11).	9.03	9.26	31-01-2019	09-04-2019	30-08-21	30-08-21
River Bank Protective works along the Right Bank of Madhumati River from km.0.000.to km..0.450 km Total 0.450 km. with d/S D/S end termination at Saildah in connection with Rehabilitation of polder no-36/1 in Bagerhat District 1st revised under Bagerhat O&M Division BWDB Bagerhat. (Package No- W-12)	12.87	12.70	31-01-2019	24-04-2019	31-05-21	31-05-21
River Bank Protective works along the Right Bank of Madhumati River from km 0.450 to km. 0.900 km Total 0.450 km. with U/S end termination at Saildah in connection with Rehabilitation of polder no-36/1 in Bagerhat District 1st revised under Bagerhat O&M Division BWDB Bagerhat (Package No- W-13).	12.97	9.06	31-01-2019	02-04-2019	15-04-22	15-04-22
Re-excavation of Bhairab River from Km.0.000 to Km.17.500 = 17.500 & Dredging 1.000 km by Dredger at Zatrapur i/c with "Rehabilitation of Polder no. 36/1 in Bagerhat District (1st Revised) ", under Bagerhat O&M Division. BWDB, Bagerhat (Package No: W-2).	24.68	24.36	25-09-2019	07-11-2019	15-12-2020	15-12-2020
Re-excavation of Chitra River from Km. 0.000 to Km. 7.000 = 7.000 km. i/c with Rehabilitation of Polder no. 36/1 in	6.78	6.78	24-03-2019	23-05-2019	30-11-2020	30-11-2020




Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Propo sal Cost (in crore Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per RDPP	Contracte d value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Bagerhat District (1st Revised) under Bagerhat O&M Division BWDB Bagerhat (Package No. W-03).						
Re-excavation of Mora Chitra from Km. 0.000 to Km.11.900 = 11.900 Km. i/c with Rehabilitation of Polder no. 36/1 in Bagerhat District under Bagerhat O&M Division BWDB Bagerhat (Package No W-04).	14.76	15.14	19-05-2019	25-07-2019	02-06-2021	02-06-2021
Re-excavation of Old Madhumati River from Km. 0.000 to Km. 9.675 = 9.675 Km. i/c with Rehabilitation of Polder no. 36/1 in Bagerhat District under Bagerhat O&M Division BWDB Bagerhat (Package No W-05).	5.26	3.19	27-02-2019	31-05-2019	30-06-2021	30-06-2021
Re-excavation of Haque Channel from Km. 0.000 to Km. 12.500 = 12.500 Km. i/c with Rehabilitation of Polder no. 36/1 in Bagerhat District 1st Revised under Bagerhat O&M Division BWDB Bagerhat (Package No. W-06).	7.90	8.16	22-03-2019	08-06-2019	25-06-2022	25-06-2022
Re-excavation of internal 20 Nos drainage Khal from Km.0.000 to Km.53.975 = 53.975Km. i/c with "Rehabilitation of Polder no. 36/1 in Bagerhat District", under Bagerhat O&M Division (Package No: W-7)	11.83	11.83	23-04-2019	05-08-2019	30-12-2021	30-12-2021
Re-excavation of 15 Nos Khal from Km.0.000 to Km.57.025 equal 57.025 Km. i/c with Rehabilitation of Polder no. 36/1 in Bagerhat District under Bagerhat O&M Division BWDB Bagerhat (Package No.- W-8)	11.16	11.16	25-04-2019	09-08-2019	20-06-2020	20-06-2020
Re-excavation of 18 Nos Khal from Km.0.000 to Km.57.037 = 57.037Km. i/c with "Rehabilitation of Polder no. 36/1 in Bagerhat District (1st Revised)" under Bagerhat O&M Division, BWDB, Bagerhat (Package No.-W-19).	14.26	14.06	27-05-2019	23-09-2019	30-05-2021	30-05-2021
Construction of Drainage Cum Flushing Regulator (12-Vent, 2.00m x 1.80m) at Godara in connection with "Rehabilitation of Polder No. 36/1 in Bagerhat District (1st Revised)" under Bagerhat O&M Division, BWDB, Bagerhat (Package No.-W-14).	25.74	26.82	18-08-2019	02-10-2019	31-05-2022	31-05-2022
Construction of Drainage Cum Flushing Regulator (2-Vent, 2.00m x 1.80m) at Dobakhali in connection with "Rehabilitation of Polder No. 36/1 in Bagerhat District (1st Revised)" under Bagerhat O&M Division, BWDB, Bagerhat (Package No.-W-15).	4.84	4.88	22-07-2019	02-10-2019	28-02-2022	28-02-2022
Construction of Drainage Cum Flushing regulator 3- Vent 2.00m x 1.80m on Baruipara Katakhal Khal at Km.-111.50 of Embankment i/c with Rehabilitation of Polder no. 36/1 in Bagerhat District under Bagerhat O&M	4.95	4.94	27-02-2019	14-05-2019	25-06-2022	25-06-2022

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Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Propo sal Cost (in crore Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per RDPP	Contracte d value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Division BWDB Bagerhat (Package No W-16).						
Construction of Drainage Cum Flushing Regulator (2-Vent, 2.00m x 1.80m) at Katakhal Khal at Km. 17.600 of Embankment in connection with "Rehabilitation of Polder No. 36/1 in Bagerhat District (1st Revised)" under Bagerhat O&M Division, BWDB, Bagerhat (Package No.-W-17).	6.34	6.31	21-05-2019	09-08-2019	28-02-2022	28-02-2022
Construction of Drainage Cum Flushing Regulator (3-Vent, 2.00m x 1.80m) at Narayankhali in connection with "Rehabilitation of Polder No. 36/1 in Bagerhat District (1st Revised)" under Bagerhat O&M Division, BWDB, Bagerhat (Package No.-W-18).	7.53	7.50	14-07-2019	01-10-2019	26-04-2022	26-04-2022
Repair of Existing 11 Nos Regulator/Sluice i/c with "Rehabilitation of Polder no. 36/1 in Bagerhat District (1st Revised)" under Bagerhat O&M Division, BWDB, Bagerhat (Package No.-W-01).	3.38	3.38	09-01-2020	25-02-2020	20-01-2021	20-01-2021
Repair of Existing 10 Nos Regulator/Sluice i/c with "Rehabilitation of Polder no. 36/1 in Bagerhat District (1st Revised)" under Bagerhat O&M Division, BWDB, Bagerhat (Package No.-W-20).	2.12	2.09	29-01-2020	27-03-2020	30-06-2020	30-06-2020

08.2. Use of Project Consultant (s) (Foreign / Local): There was no provision of consultant deployment 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) Local: Nil			
b) Foreign 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
Brand Computer	2 nos	30-06-2016	Bagerhat O&M Division, BWDB, Bagerhat. Date: 01/07/2022.	-	2	Is being used for official work in Bagerhat O&M Division, BWDB, Bagerhat.
Laptop	1nos	30-06-2016			1	

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C. FINANCIAL AND PHYSICAL PROGRAMME:

1. (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	P.A.	Physical %	Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9
2015-16	4265.84	4265.84	-	15.08%	98.00	98.00	-	0.01%
2016-17	12522.15	12522.15	-	44.28%	45.49	45.49	-	0.07%
2017-18	5799.06	5799.06	-	20.50%	9.00	9.00	-	0.51%
2018-19	5696.11	5696.11	-	20.14%	200.00	200.00	-	1.41%
2019-20	-	-	-	-	4482.37	4482.37	-	56.00%
2020-21	-	-	-	-	9646.51	9646.51	-	34.00%
2021-22	-	-	-	-	5672.99	5672.99	-	8.00%
Total:	28283.16	28283.16	-	100%	20154.36	20154.36	-	100%

1. (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
2015-16	100.00	100.00	-	0.01%	100.00	98.00	98.00	-	0.01%
2016-17	750.00	750.00	-	0.07%	750.00	45.49	45.49	-	0.07%
2017-18	1500.00	1500.00	-	0.51%	1500.00	9.00	9.00	-	0.51%
2018-19	200.00	200.00	-	14.41%	200.00	200.00	200.00	-	1.41%
2019-20	7000.00	7000.00	-	40.00%	4490.66	4482.36	4482.36	-	56.00%
2020-21	9650.00	9650.00	-	37.00%	9650.00	9646.60	9646.60	-	34.00%
2021-22	5389.00	5389.00	-	8.00%	5220.22	4996.49	4996.49	-	7.50%
Total	24589.00	24589.00	-	100.00%	21910.88	19477.94	19477.94	-	99.50%

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D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Objectives as per DPP	Actual achievement	Reasons for shortfall, if any
A) To increase agricultural production through drainage facilities and to protect crops from damage by improving drainage facilities within a net of 31,300 ha and gross 39130 ha land area;	Re-Excavation of rivers/ khals has greatly increased agricultural production through water drainage management while crop protection has been improved by progressing drainage facilities within the project.	No shortfall
B) To improve socio-economic condition and reduce poverty of the people by preventing the intrusion of saline water in the project area;	Social and economic development of the people through prevention of Saline water intrusion in the project area. Environmental resistance is being protected through green afforestation on both banks of canals/rivers. A habitat for wild birds has been created. On the other hand, sanctuaries have been created for nearly extinct native species of fish	
C) Employment creation, income generation, and increases in living standard for the people in the project area.	Employment, income generation and living standards of the people of the area have been increased. Overall socio-economic conditions are upgrading and positive environmental impact is increasing. Better water management in the project area is enhanced with the irrigation facility. Sustainable multiple use of the project in the area is increasing by poultry, fish culture, afforestation, ground water recharging etc,	

E. BENEEFIT ANALYSIS:

01. Annual Output:

Items of out-put	Unit	Estimated quantity expected at full capacity	Actual quantity of outputs during the 1 st year of operation at full capacity (or during real production for newly completed project)
1	2	3	4
(a) Extension of irrigation water coverage	Ha	31,300	Since the project has been completed, irrigation coverage area has been increased. Finally, it will be assessed after 1st year of irrigation period. The project has just been implemented so output values can be assessed after a year from completion.
(b) Annual incremental paddy production.	M Ton	9026.48	It will be assessed after 1st year of irrigation period.



02. Cost / Benefit:

Item	Estimated	Actual
(1) Benefit cost of the project		It will be evaluated later by the concerned directorate of BWDB & IMED.
(i) Financial	1.67 : 1.00	
(ii) Economic	1.86 : 1.00	
(2) Internal rate of return		
(i) Financial	24.96%	
(ii) Economic	29.46%	

(3) 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:			
Kabir Bin Anwar Secretary, MoWR	25.10.2019	No major problems identified	Project must be completed within stipulated time. Dredged earth must be managed in planned way to reclaim land.
Mid Term Evaluation Team M.Shan-e-Alam Misty Senior Assistant Secretary, MoWR	28.02.2020	Erosion of Re-excavated River/ khals bank slope and sand boiling phenomena were observed.	To stabilize bank slope, the design side slope should be milder with increase in bed width for excavation works of Khals. The Re-excavation of River/Khals should be done in integrated way sequentially.
S.M. Rezaul Mostafa Kamal Joint Secretary, MoWR	20.07.2021	No major problems identified.	Project must be completed within stipulated time.
Alam Ara Begum Additional Secretary (Admin), MoWR	26.01.2022	No major problems identified.	Project must be completed within stipulated time.
Kabir Bin Anwar Senior Secretary, MoWR	10.06.2022	No major problems identified	Main works of Project works was done.
Md. Mahfuzur Rahman Executive Engineer & Others Member, Design Circle-5, BWDB, Dhaka.	29.11.2016 to 01.12.2016	No major problems identified	Prepared design data as per field condition.
Md. Abdul Sattar Superintending Engineer, Design Circle-5, BWDB, Dhaka.	04.09.2018 & 05.09.2018	No major problems identified	Prepared design data as per field condition.
Mr. Siddiquir Rahaman Chief Engineer South-Western Zone, BWDB, Khulna.	15.12.2019	Erosion of Re-excavated River/ khals bank slope and sand boiling phenomena were	Sand Piling work shall be finished as soon as possible and other works of the Project must be completed within stipulated time.




Name & Designation of the inspecting official	Date of inspection	Identified Problems	Recommendations
1	2	3	4
		observed.	
Mr. Siddiqur Rahman Chief Engineer South-Western Zone, BWDB, Khulna.	06.02.2020	Very slow progress of river bank protective work and erosion of re-excavated river/ khals bank slope and Sand Boiling phenomena.	Bank Protection works shall be finished as soon as possible for excavation of River/Khals the bed level should be lowered and side slope should be more flatter (1:2)
Md. Habibur Rahman Additional Director General Western Region BWDB, Dhaka.	06.11.2020	No major problems identified.	Instructed to follow approved designs for construction works.
Md. Rafiq Ullah Chief Engineer South-Western Zone, BWDB, Khulna.	06.11.2020	No major problems identified.	Instructed to follow approved designs for construction works.
Md. Saif Uddin Superintending Engineer, Design Circle-8, Dhaka.	05.12.2020	Due to seepage and sand boiling, cross bandh as well as diversion Road were collapsed.	Dewatering shall be continued throughout the work period for dry construction platform.
Md. Rafiq Ullah Chief Engineer South-Western Zone, BWDB, Khulna.	Several times	No major problems identified.	Instructed to follow approved designs for construction works & to complete within the stipulated time.
A. K. M. Tahmidul Islam Chief Engineer South-Western Zone, BWDB, Khulna.	Several times	No major problems identified.	Instructed to follow approved designs for construction works & to complete within the stipulated time.
Md. Abul Hossain Superintending Engineer Khulna O & M Circle BWDB, Khulna & Project Director.	Several times	No major problems identified.	Instructed to follow approved designs for construction works to be completed within the stipulated time.
Md. Shafi Uddin Superintending Engineer Khulna O&M Circle BWDB, Khulna & Project Director.	Several times	No major problems identified.	Approved design must be followed.
(b) IMED:			
Md. Afzal Hossain Director, IMED.	17.10.2017	Project implementation period is 4 years but 2 years financial progress is 0.51%	To complete the project in stipulated time a work plan should be prepared according to Critical Path Method (CPM). Then the project should be implemented according to the work plan.
Md. Abdur Rahman Deputy Director, IMED. (Agriculture & Water)	21.06.2019	No major problems identified.	Project must be completed in stipulated time




Name & Designation of the inspecting official	Date of inspection	Identified Problems	Recommendations
1	2	3	4
Md. Afzal Hossain Director General, IMED Sector -4.	22.02.2020	According to MoWR, it was decided to procure the works through OTM and the tender was invited at the end of the financial year 2018-2019. Afterword, due to arrival of rainy season, the progress of the project works was nearly zero.	The project could be extended up to 1 year without increase in project cost.
(c) Others:			
Sheikh Helal Uddin Member of Parliament Member of National Parliament-95, Bagerhat-1	Several times	No major problems identified.	Important instructions were provided to expedite works. Some local Managerial problems were solved upon discussion with stakeholder. Project progress was satisfactory & site management problem was solved.


2.0 Auditing during and after Implementation:

2.1. Internal Audit:

Period of Audit	Date of submission of Audit Report.	Major findings/ objections	Whether objection resolved or not.
1	2	3	4
No internal Audit conducted			

2.2. External Audit:

Audit Period	Date of submission of Audit Report.	Major findings/objections	Whether objection resolved or not.
1	2	3	4
2015-16	No objection raised.		
2016-17			
2017-18			
2018-19			
2019-20	Not conducted		
2020-21	Not conducted		
2021-22	Yet to be conducted		

G. DESCRIPTIVE REPORT

General Observations/Remarks of the Project on:

1.1 Background

The original project namely polder no-36/1 was started in 1972 and completed in 1976. The original project contained main physical items of work, which were embankment 95.00 Km, drainage khals 270 Km, regulator 36 nos & closure 27 nos and it was implemented with costing taka 291.32 Lakh. The main objectives of the project were to reduce water logging, protect tidal saline water intrusion & to protect the area during rainy season from the flood.

The project covers a gross area 39.3130 hectares & net area of about 31,310 hectares. The project was successful in the context of increasing food production, flood control & protecting the homestead, crop land etc from the floods. The project area covers Mollahat, Fakirhat & Chitolmari Upazila of Bagerhat District & Rupsha Upazila of Khulna District. Implementation of the project has already passed 33 years.

At present, the Atharobaki river in the west side, Bhairab river in south side, Chitra river in the east side & middle of the project have already been silted up. Apart from this, since implementation, there was not a major rehabilitation or repair of the sluices/regulator has been commenced. Hence a number of sluices/regulators are not functioning due to structural damage. There are 6 (six) nos non-functioning sluices/regulators in the project. The list includes-Narayankhali- 1vent regulator, Baruipara-1 vent sluice, Dobakhali-1 vent sluice, Chandpur-1 vent sluice, Saildah-1 vent flashing sluice & Dhanokhali-2 vents sluice. Water logging problem was persistent in 15000 ha cultivable land for last 6-7 years. As water logging problem escalates decreasing crop production, which results in worsening socio-economic condition of the people.

The honorable Prime Minister visited Bagerhat district on 05-03-2011 and provided commitment to the local people, leaders and stakeholders to implement this project as soon as possible. Given these situations, people demanded rehabilitation of polder no-36/1 in Bagerhat district. In this context, BWDB has taken up the proposed project on a priority basis. The objectives of the project are to provide safety of human lives, properties & improve economic activities by rehabilitation of polder no-36/1 in Bagerhat district. Valuable establishments around polder area are supposed to be saved by implementation of proposed protective works.

1.2 Justification/Adequacy:

At present, the Atharobaki river in the west side, Bhairab river in south side, Chitra river in the east side & middle of the project have already been silted up. Apart from this, since implementation of the polders and associated sluices, there was not a major rehabilitation or repair of the sluices/regulator. Hence, a number of sluices/regulators are not functioning well due to structural damage and some are totally non-functioning. There are 6 (six) nos. non-functioning sluices/regulators in the project. The list includes-Narayankhali- 1vent regulator, Baruipara-1 vent sluice, Dobakhali-1 vent sluice, Chandpur-1 vent sluice, Saildah-1 vent flashing sluice & Dhanokhali-2 vent sluice. Water logging problem was persistent in 15000 ha cultivable land for last 6-7 years and the agricultural production got reduced severely. As water logging problem escalates day by day resulting in decreasing crop production causing worsening of socio-economic condition of the people.

Under this circumstance, people as well local leaders demanded to rehabilitate polder no-36/1 in Bagerhat district. The honorable Prime Minister visited Bagerhat district on 05-03-2011 and provided commitment to the local people, leaders and stakeholders to implement this project as soon as possible. As per her commitment, the project was prepared & approved through competent authority. In this context, BWDB has implemented the projects with highest priority ensuring excellent quality of the works.

1.3. Objectives:

The main objectives of this project are-

- To increase agricultural production through drainage facilities and to protect crops from damage by improving drainage facilities within a net of 31,300 ha and gross 39,130 ha land area;
- To improve socio-economic condition and reduce poverty of the people by preventing the intrusion of saline water in the project area;
- Employment creation, income generation and increases in living standard for the people in the project area.

1.4. Project revision with reasons:

1ST REVISION:

The original DPP of the project named "Rehabilitation of Polder No.36/1 in Bagerhat District" costing BDT 28283.16 lakh was approved in ECNEC meeting held on 05-01-2016 with implementation period from October, 2015 to June, 2019. The administrative approval of the Project of "Rehabilitation of Polder No-36/1 in Bagerhat District" was issued by the Ministry of Water Resources.

During the execution of preliminary formalities of the project, Bangladesh Diesel Plant Limited (BDPL), Gazipur Cantonment, Shimultoli, Gazipur, an institution under the management of Bangladesh Army, submitted a proposal for execution of the project under Direct Procurement Method (DPM) which was sent by the Ministry of Water Resources (MoWR) dated 19-04-2016 to Bangladesh Water Development Board (BWDB) for necessary action.

Accordingly, BWDB prepared necessary proposal of CCEA of the project which was submitted to MoWR on 08-08-2016. But, the CCEA proposal of the project was not approved which was informed by the Ministry of Water Resources (MoWR) on 31-10-2016 to Bangladesh Water Development Board (BWDB) with a instruction that the tendering process will be done under Open Tendering Method (OTM) as per DPP. During the Procurement Process of the project under Open Tendering Method (OTM), BWDB again received an instruction from MoWR on 11-01-2017 that a proposal for CCEA of the project should be made under Direct Procurement Method (DPM) with all physical items of the works except the construction and repair works of the regulator.

As per instruction, BWDB prepared a CCEA proposal of the project and submitted to MoWR on 15-01-2017 with excluding the construction and repair works of the regulator of the project. Accordingly, BWDB floated a tender under Open Tendering Method (OTM) for the construction and repair works of the regulators of the project as per DPP under e-GP portal on 23-01-2017.

Before receiving the tender under OTM, BWDB received another instruction from Higher Authority stated to be made a CCEA proposal with all physical items of the project including the construction and repair works of the regulator. Subsequently, BWDB cancelled the tender process under OTM and made a CCEA proposal with all physical items of the project including the construction and repair works of the regulator and which was submitted to MoWR on 08-02-2017. Accordingly, the CCEA proposal of the project was approved by the competent authority on 26-04-2017 with all physical items of the project and which was sent by MoWR on 28-05-2017.

In the meantime, the project already entered into 3rd year 2017-2018 on its implementation period. As the DPP was prepared based on Schedule of Rates of 2015-2016 of Khulna O&M Circle hence, estimated cost for all physical items of the project works have been taken from current Schedule of Rates on 2018-2019 of Khulna



O&M Circle, BWDB, Khulna effective from August, 2018. To keep the cost within approved DPP cost the scope of works of some quantities of the physical items were reduced. Thus, the revised project cost according to current Schedule of Rates has been increased to BDT 25697.73 lakh which is 9.14 % less than original approved DPP. As per decision of the competent authority, the revised DPP was submitted and approved on 11-11-2018.

2ND REVISION:

During the implementation of the project, design of five new regulators was changed by the inclusion of Diversion Road, Slope Protection and Beautification works. This led to increase in cost. Also, the cost of Re-excavation of five rivers khals got reduced as per field condition and change in design. Alongside, the lengths of drainage khal re-excavation was fixed to 156.39km instead 172.79 km due to exclusion of linking canal. Implementation of protective works also hampered, due to diversion of flow along the proposed protective work site with the passage of time. Huge siltation hindered geo-bag and block dumping in the area which resulted in exclusion of protective work which caused reduction in cost. Due to aforementioned causes, the need for second revision becomes mandatory. As per decision of the Project Evaluation Committee (PEC) meeting on 09.09.2021 in Planning Commission the 2nd Revised DPP has been re-casted with an estimated cost of BDT 20154.36 lakhs and approved 03-03-2022.

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

Rehabilitation of the Polder no. 36/1 includes repair of existing hydraulic structures and construction of new hydraulic structure, river bank protection work, dredging of river and re-excavation of khals. The design of river bank protection work includes material dumping trench (75% Geotextile Bag+ 25% CC Block). The initial shock of the river created due to imposed changes is being nicely counterbalanced by the revetment work, it can be said that the design concept is very much responsive to the hydro-morphological condition of the project area. The design of 5 nos new hydraulic structures includes 1 no. 12-vent, 2 nos. 3-vent and 2 nos. 2-vent regulators/ sluice gates. Beautification works adjacent to newly constructed regulator have created recreational facilities and economic activities because the area lacks in recreational facilities for long time. On the other hand, dredging of 5 nos rivers and re-excavation of 53 nos khals have contributed to excellent water resources management and performed well as per the design and recommendation of the concerned design circles.

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

◆ Project Identification:

The Project was initially identified by local politicians, local elites, public representatives, Honorable Local Member of Parliament, Local Administrative etc. Those Stakeholders earnestly requested the Honorable Member of Parliament to address the problem of water resources management. Accordingly, Honorable Member of Parliament sent DO letter to Honorable Minister, Ministry of Water Resources to take up the project. Besides, the honorable Prime Minister visited Bagerhat district on 05-03-2011 and provided commitment to the local people, leaders and stakeholders to implement this project as soon as possible. As per her commitment & then based on instructions from higher officials, DPP was prepared.

◆ Project Preparation:

The original project namely Polder 36/1 was started in 1972 and completed in 1976. The original project contained main physical items of work, which were embankment 95.00 km, drainage



khals 270km, regulator 36 nos, and closure 27 nos. It was implemented with costing Taka 291.32 Lakh. At present, the Atharobaki river in the west side, Bhairab river in south side, Chitra river in the east side and middle of the project have already been silted up. Apart from this, since implementation, there was not a major rehabilitation or repair of the sluices/regulator has been commenced. Hence, a number of sluices/regulators are not functioning due to structural damage. There are 6(six) nos. non-functioning regulators/sluices in the project. The list includes Narayankahli 2-vents regulator, Baruipara 1-vent sluice, Dobakhali 1-vent sluice, Chandpur 1-vent sluice, Saildah 1-vent flashing sluice and Dhanokhali vent sluice. Due to water logging problem mainly in 15000 ha cultivable land hampers crop production. So, Boro cultivation was completely hampered in the mentioned area of land from last 6-7 years. As water logging problem escalates decreasing crop production which results worsening socio-economic condition of the people. Given these situations, people demanded to Rehabilitation of polder no-36/1 in Bagerhat district. In this context, DPP has taken up the proposed project on a priority basis.

◆ **Appraisal:**

PEC Meeting of the project was held on 20 August 2015 at Planning Commission.

◆ **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 05-01-2016 and 2nd Revised DPP was approved by honorable Planning Minister on 03-03-2022.

◆ **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

The stakeholders are taking advantages of the created facilities of the project in passive way. It ensured protection of their homesteads, agricultural lands, and business centers. Price of land inside the embankment is hiking in geometric rate which was close to null before implementation of the project.

4.3 O & M Programme of the project.

After completion of the project major repair/rehabilitation works will be accomplished from regular O&M budget of BWDB.

4.4 Impact of the project -

4.4.1 Direct.

- Increased agricultural production through drainage facilities and ensuring protection of crops from damage by improving drainage facilities within a net of 31,300 ha and gross 39130 ha land area;

- Ensuring the improvement of socio-economic condition and reduction of poverty of the people by preventing the intrusion of saline water in the project area;
- Creating employment, generating income and increasing living standard for the people in the project area.

4.4.2. Indirect

- Food Security
- Safety of human livelihood and properties.
- Availability of water for daily use of the local people

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.

After implementation of the project, more people are coming forward in cultivation and fisheries due to proper management of water. Also, recreation center has created many employments in the project area. Thus, this project is bringing up positive impact in employment.

4.7 Possibility of Self employment

As the economy of this area is mainly agriculture based hence due to better management of surface water more entrepreneurs are coming in the sector of agriculture and fisheries.

4.8 Possibility of women-employment opportunity

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

4.9 Women's participation in development

Yes.

4.10 Probable Impact on Socio-Economic activity.

By increasing employment opportunity, agricultural production and creating recreational facilities, socio-economic activity has increased to a large extent.

4.11 Impact on environment

Enrichment of environmental is achieved through the implementation of the project as it incorporates plantations.

4.12 Sustainability of the project

This project is performing well as expected and can be declared as sustainable. Like any other hydrological project of more numbers of uncertainties, it will require periodic maintenance of the physical structures and re-excavation works. Upon ensuring periodic maintenance as per requirement, the life of the project can be extended up to greater extent.

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.

AM *sk*

The water controlling structures are serving the farmers and fishermen. Recreational centers adjacent to regulators have imposed positive impacts.

4.15 Contribution of Micro-credit programmes and Comments on overlapping with any NGO activities.

Not Applicable

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

Project Management	: N/A.
Project Director	: N/A.
Land Acquisition	: N/A.
Procurement	: N/A.
Consultancy	: N/A.
Contractor	: N/A.
Manpower	: N/A.
Law & Order	: N/A.
Natural calamity	: Project area is located near turbulent coastal area. The soil quality in the project area is very poor and very susceptible to seepage and sand boiling which encountered progress. Moreover, worldwide COVID-19 pandemic squeezed up suitable working time. Still with close monitoring and careful supervision, the project was completed without time over-run.
Project financing, allocation and release	: N/A.
Design formulation/approval	: N/A.
Project aid disbursement and re-imbursement	: N/A.
Mission of the development partners.	: N/A.
Time & Cost Over-run	: As mentioned in B-01 and B-02.
Project Supervision/Inspection	: N/A.
Delay in Decision	: N/A.
Transport	: N/A.
Training	: N/A.
Approval	: N/A.
Others	: N/A.

06. Remarks & Recommendations of the Project Director:

The honorable Prime Minister visited Bagerhat district on 05-03-2011 and provided commitment to the local people, leaders and stakeholders to implement this project as soon as possible. As per her commitment, the project was approved through competent authority and implemented as well. The project has facilitated improved water management in the project area. Specially, repair and maintenance of 21 regulators and construction of five new regulators have created huge impact on agriculture and fisheries in the area. Re-excavations of khals and rivers within the project area have contributed to building better environment. The project was revised two times as described earlier, other than this throughout the implementation period the works were done properly. Many construction difficulties were encountered during implementation of the works but it was overcome successfully. The project has also created recreational facilities, employment opportunity and prevention of salt water intrusion.

The main objective of the project was to increase agricultural production through drainage facilities and to protect crops from damage by improving drainage facilities within a net of 31,300 ha and gross 39,130 ha land area by the execution of re-excavation of rivers and khals, construction of drainage structure, regulator etc. Due to implementation of the project, socio-economic condition of the local people has been improved and poverty of the people has been reduced by preventing the intrusion of saline water in the project area. Besides, land prices has increased which will cause enhanced opportunity of employment and increased living standard.

Objective 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. The Project is specifically linked with SDGs (Goal-1: End Poverty in all its form End hunger, Goal-2: Achieve food security and improved nutrition and promote sustainable agriculture, Goal-11: Make cities and human settlements inclusive, safe, resilient and sustainable and Goal-13: Take urgent action to combat climate change and its impact). The Ministry of Water Resources has been engaged in all programs relating to water sector development and management. It will continue to deal with flood erosion protection. There are other Bangladesh Development Goals which have to be achieved through Poverty Reduction Strategy. So, Water Sector has a vision for development and management of Water Resources over medium and long term.

As water is a cross cutting resource, its use is broad-based. Water is a resource on the one hand and a mainstay of livelihoods on the other. So, the goal is not confined within the water sector alone, it extends deep into the livelihoods functions of water (e.g. agriculture, fisheries, health, land reclamation, environment etc. including disasters and climate change). All of these have direct or indirect implications for poverty reduction.

During the implementation of this project, members of different committees & monitoring authorities visited project site and gave their opinions which helped implementation of the project. Project was implemented properly following respective design, drawing and specification. The quantity and quality of the physical works were ensured by Task force committee of BWDB and concerned officials of BWDB.

Recommendation: This project is performing well as expected and can be considered as sustainable. Since polder no 36/1 is the largest polder in Bagerhat district hence similar project shall be formulated to rehabilitate other infrastructures within the project area. Re-excavation and dredging of remaining rivers and khals is



necessary to improve quick drainage in this area. Also, repair and maintenance of the implemented works are very important and hence maintenance budget should be allocated every year.

Date: 12-10-2022

Signature and Seal of the Project Director
Md. Sharif Uddin
Superintending Engineer
Khulna O & M Circle
BWDB, Khulna.

07. Remarks/ Comments of Agency Head.

This project was taken up upon the Commitment of the Honorable Prime Minister of the People's Republic of Bangladesh. The main objective of the project was to rehabilitate polder 36/1 to increase agriculture production, improvement of drainage facilities, and improvement of socioeconomic condition of the stakeholders. Implementation of this project provides improved drainage facilities in approximately 39,100 hectares of land. The project is serving its intended purpose and can be regarded as successful in the context of increasing food production, flood control, and protecting the homestead, cropland, etc. from floods.

Date:

Signature and Seal
(FAZLUR RASHID)
Director General
BWDB, Dhaka.

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

The main objective of the project is to increase agriculture production, protecting crops from damage by improving drainage facilities and to improve socio-economic condition by reducing the poverty of the people as well as employment creation, income generation and increasing living standard for the people in the project area. The project covers a crops area 39,310 hectares and net area of about 31,310 hectares. The project is successful in the context of increasing food production, flood control and protecting the homestead, crop land etc. from the floods. This project is performing well as expected and can be considered as sustainable. Repair and maintenance of the implemented works are very important. Proper maintenance and monitoring should be ensured so that the outcome of the project sustains effectively.

Date:

Signature and Seal

