

Bangladesh Water Development Board.



PROJECT COMPLETION REPORT

IMED FORM NO-04/2003(Revised)

Name of the Project : Integrated Water Management Project of Polder 34/2 in
Bagerhat District. (Project code-5108)

Division: Bagerhat O & M Division, BWDB, Bagerhat

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

Zone: South-Western Zone, BWDB, Khulna

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** : Integrated Water Management Project of Polder 34/2 in Bagerhat District. (Project code-5108)
02. **Administrative Ministry/Division** : Ministry of Water Resource.
03. **Executing Agency** : Bangladesh Water Development Board.
04. **Location of the Project** :

Division	District	Upazila
Khulna	Bagerhat	Bagerhat sador, Fakirhat,Mongla,Rampal
Khulna	Khulna	Batiaghata

05. **Objective of the Project** :

- * The main objectives of the project are flood and drainage management in an integrated way in the project gross area 47394 ha and net area 29304 ha.
- * To protect saline water intrusion.
- * To improve irrigation facilities by using surface water during dry season.
- * To preserve bio-diversity.

06. **Estimated Cost** :

(In lakh Taka)

	Original	Latest Revised
(a) Total	16726.12	6189.94
(b) Taka	16726.12	6189.94
(c) Foreign Currency	N/A	-
(d) Project Aid	N/A	-
(e) RPA	N/A	-

07. **Date of Approval** :

PCP	PP
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- (a) Original : - 04-10-2012
- (b) Latest Revised : - 09-07-2017

08. **Implementation Period** :

	Date of Commencement	Date of Completion
(a) Original	01-07-2012	30-06-2015
(b) Latest Revised	01-07-2012	30-06-2016
(c) Actual	01-07-2012	30-06-2016

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09. Financing Arrangement (Source-wise) :

9.1 Status of Loan/Grant :

a) Foreign Financing : Not Applicable

Source (s)	Currency as per Agreement	Amount in US \$ (Million)	Nature (Loan/Grant/supplier's/credit)	Date of Agreement	Date of Effective -ness	Date of Closing	
						Original	Revised
1	2	3	4	5	6	7	8

b) GOB :

(In lakh Taka)

Total amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
6189.94	-	6189.94	-

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

(In million)

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

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

(In lakh Taka)

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

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
From July/2012 to June/2015	From July/2012 to June/2016	From July/2012 to June/2016	33.33%	Proper ADP budget allocation, placing of fund in due time, timely finalized tender document and Climate problem.

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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	16726.12	6189.94	6189.94	(-)62.99%	Due to abandoning of few physical component of the project the cost of the project didn't overrun.
TAKA	16726.12	6189.94	6189.94	(-)62.99%	
RPA					

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	Male	Female
1	2	3	4	5	Male	Female
Officer (s)	Existing manpower of the implementing agency were deployed during execution of the project.					
Staff(s)						
Total :						

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

Field of Training /Study tour/workshop/ Seminer etc.	Provision as per PP		Actual		Remarks
	Number of person	Man - months	Number of person	Man - months	
1	2	3	4	5	6

a. Foreign : N/A.

b. Local : N/A.

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

(In lakh Taka)

Items of work (as per PP)	Unit	Target (as per RDPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
a. REVENUE COMPONENT						
Petrol & Lubricant	LS	8.99	1 item	8.99	1 item	
Printing & Publications	LS	3.50	1 item	3.50	1 item	
Office Stationery, Seal and Stamp	LS	6.00	1 item	6.00	1 item	
Publicity & Advertising	LS	8.00	1 item	8.00	1 item	

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Items of work (as per PP)	Unit	Target (as per RDPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
Formation of WMO, Training and Environmental awareness campaign.	LS	0.00	1 item	0.00	1 item	
Survey & Investigation	LS	7.95	1 item	7.95	1 item	
Repair & Maintenance of existing vehicles	LS	5.50	1 item	5.50	1 item	
SUB-TOTAL REVENUE		39.94		39.94		
b. CAPITAL COMPONENT						
Jeep (5doors) Progoti 2350 cc	Nos	57.00	1 No.	57.00	1 No.	
Motor Cycle	Nos	3.00	2 Nos.	3.00	2 Nos.	
Photocopier	Nos	1.50	1 No.	1.50	1 No.	
Differential GPS	Nos	5.00	1 No.	5.00	1 No.	
Levelling Instrument	Set	0.50	2 Set	1.50	2 Set	
Brand Computer with Laser Printer & Accessories (2 Nos) ; Laptop With Scanner (1 No).	Nos	2.90	3 Nos.	3.40	3 Nos.	
Fax machine	Nos	0.40	1 No.	0.40	1 No.	
Turfing and Tree plantation (70.32 km)	Km	0.00	-	-	-	Dropped as per steering committee.
Acquisition/Purchases of Lands and Landed Properties of Assets						
Land Acquisiton	ha	480.00	8.446 ha	480.00	8.446 ha	Dropped as per steering committee.
Re-excavation of Khals/ Rivers.	Km	3660.00	110.30 km	3660.00	110.30 km	
Construction of Embankment. (from Km 20.340 to Km 70.320)	Km	-	-	-	-	Dropped as per steering committee.
Re-shaping of embankment 20.34 km. 250854.46 cum (0.0-20.340)	Km	73.94	20.34 Km (Part)	73.94	20.34 Km (Part)	
Construction of Regulator	Nos	1864.26	12 Nos(Part)	1864.26	12 Nos(Part)	Dropped as per steering committee.
SUB-TOTALCAPITAL COMPONENT		6150.00	-	6150.00	-	
c. Physical Contingency:	LS	-	-	-	-	
d. Price Contingency:	LS	-	-	-	-	
Total :		6189.94	100.00%	6189.94	100.00%	

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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
1. Md. Abdul Latif Miah Superintending Engineer, Khulna O&M Circle, BWDB, 50,000/--71,200/-	Full time		Yes	13.04.2011	14.10.2012	
2. Md. Abul Kalam Azad Superintending Engineer, Khulna O&M Circle, BWDB, 50,000/--71,200/-	Full time		Yes	14.10.2012	02.10.2014	
3. Md. Julfikur Ali Howlader Superintending Engineer, Khulna O&M Circle, BWDB, 50,000/--71,200/-	Full time		Yes	02.10.2014	03.02.2015	
4. Md. Bazlur Rashid Superintending Engineer, Khulna O&M Circle, BWDB, 50,000/--71,200/-	Full time		Yes	03.02.2015	-	

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
Jeep	1	16/01/2013	-	01/07/2016	-	
Motor Cycle	2	9/12/2013	-	01/07/2016	-	
Microbus	-	-	-	-	-	
Minibus	-	-	-	-	-	
Bus	-	-	-	-	-	
Pick-up	-	-	-	-	-	
Truck	-	-	-	-	-	
Motor Cycle	-	-	-	-	-	
By-cycle	-	-	-	-	-	
Speed Boat	-	-	-	-	-	
Launch	-	-	-	-	-	
Others with name	-	-	-	-	-	

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08. Procurement of Goods, Works and Consultancy Services:

08.1 Goods & Works of the Project Costing above TK.200.00Lakh & Consultancy above TK.100.00Lakh .

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Proposal Cost (in lakh Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per PP	Contracted value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Construction of Drainage Sluice (PDS-02, 16-Vent-1.50m X 1.80m) Over Old Passur River at km 19.980 in connection with Integrated Water Management Project of Polder 34/2 in Bagerhat District during the year 2012-2013 & 2013-2014 (Package/Lot no. Bag-08/2012-2013)	1291.72	1291.72	23/4/2013	12/12/2013	07/05/2015	30.04.2015
Construction of Drainage Sluice (PDS-4, 3-Vent - 1.50m x 1.80m) over Gona Nadi at Km. 30.060 in connection with "Integrated Water Management Project of Polder no. 34/2 in Bagerhat District" under Bagerhat O&M Division, BWDB, Bagerhat during the year 2012-2013 & 2013-2014." (Package No. Bag-10/12-13)	376.30	376.30	23/4/2013	12/12/2013	03/03/2015	31.01.2015
Construction of Drainage Sluice (PDS-06, 2-Vent-1.50m X 1.80m) Over Charakhali Khal at km 42.520 in connection with "Integrated Water Management Project of Polder 34/2 in Bagerhat District" under Bagerhat O&M Division, BWDB, Bagerhat during the year 2012-2013 & 2013-2014" (Package No. Bag-11/12-13)	270.69	270.69	23/4/2013	12/12/2013	15/06/2014	16.06.2015
Construction of Drainage Sluice (PDS-08, 12-Vent-1.50m X 1.80m) Over Daudkhali River at km 47.120 under "Integrated Water Management Project of Polder 34/2 in Bagerhat District" under Bagerhat O&M Division, BWDB, Bagerhat during the year 2012-2013 & 2013-2014 (Package-Bag-13/12-13)	944.09	944.09	23/4/2013	12/12/2013	01/06/2015	10.04.2015

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Description of procurement (goods/works/consultancy) as per bid document	Tender/Bid/Proposal Cost (in lakh Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per PP	Contracted value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Construction of Drainage Sluice (PDS-11, 2-Vent-1.50m X 1.80m) Over Akkbaria khal at km 65.920 in connection with "Integrated Water Management Project of Polder 34/2 in Bagerhat District" under Bagerhat O&M Division, BWDB, Bagerhat during the year 2012-2013 & 2013-2014 (Package-Bag-16/12-13)	282.03	282.03	23/4/2013	18/12/2013	06/02/2015	06.02.2015
Construction of Drainage Sluice (PDS-12, 2-Vent-1.50m X 1.80m) Over Daulatkhal khal at km 70.320 under "Integrated Water Management Project of Polder 34/2 in Bagerhat District" during the year 2013-2014 (Package No. e-T/ Bag-12/13-14)	255.15	255.15	20/5/2014	07/07/2014	31/03/2015	25.03.2015
Construction of Drainage Sluice (PDS-5, 4-Vent-1.50m X 1.80m) Over Bogra Nadi at km 36.970 under "Integrated Water Management Project of Polder 34/2 in Bagerhat District" during the year 2013-2014 (Package No. e-T/ Bag-13)	410.4	410.4	20/5/2014	23/6/2014	21/06/2016	08.04.2015
Construction of Drainage Sluice (PDS-3, 8-Vent-1.50m X 1.80m) Over Moidara Ichamati Khal at km 25.640 under "Integrated Water Management Project of Polder 34/2 in Bagerhat District" during the year 2013-2014 (Package No. e-T/ Bag-13/13-14)	578.41	578.41	20/5/2014	26/6/2014	25/06/2015	26.01.2015
Re-excavation of Daudkhali khal from km. 0.000 to 6.000 = 6.000 km under Integrated Water Management Project of Polder- 34/2 in Bagerhat district during the year 2014-15. (Tender ID No. 10217 and Package No. e-Tender: Bag-14/2014-15)	415.05	415.05	07/9/2014	05/01/2015	25/06/2015	25.06.2015

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Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Proposal Cost (in lakh Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per PP	Contracted value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Re-excavation of Daudkhali khal from km. 6.000 to 15.000 = 9.000 km under Integrated Water Management Project of Polder- 34/2 in Bagerhat district during the year 2014-15. (Tender ID No. 10233 and Package No. e-Tender: Bag-15/2014-15)	395.73	395.73	07/9/2014	07/01/2015	25/06/2015	29.05.2015
Re-excavation of Urubunia Khal (Connection with PDS-7) from km. 0.000 to 6.000 = 6.000 km under Integrated Water Management Project of Polder- 34/2 in Bagerhat district during the year 2014-15.(Tender ID No. 10271 and Package No. e-Tender: Bag-22/2014-15)	263.93	263.93	07/9/2014	05/01/2015	25/06/2015	15.05.2016
Re-excavation of Maidara Ichamati khal from km. 0.000 to 2.250 = 2.250 km under Integrated Water Management Project of Polder- 34/2 in Bagerhat district during the year 2014- 15. (Tender ID No. 10267 and Package No. e-Tender: Bag-18/2014-15)	295.90	295.90	07/9/2014	29/12/2014	25/06/2015	15.05.2016
Re-excavation of Jogikhali Khal from km. 0.000 to 3.050 = 3.050 km under Integrated Water Management Project of Polder- 34/2 in Bagerhat district during the year 2014-15 (Tender ID No. 9888 and Package No. e-Tender: Bag-12/2014-15)	245.2	245.2	26/8/2014	05/01/2015	25/06/2015	31.05.2015
Re-excavation of Jogikhali Khal from km. 3.050 to 6.500 = 3.450 km under Integrated Water Management Project of Polder- 34/2 in Bagerhat district during the year 2014-15. (Tender ID No. 9889 and Package No. e-Tender: Bag-13/2014-15)	226.62	226.62	26/8/2014	05/01/2015	25/06/2015	30.05.2016
Re-excavation of Maidara Ichamati khal from km. 2.250 to 5.500 = 3.250 km under Integrated Water Management Project of Polder- 34/2 in Bagerhat district during the year 2014- 15. (Tender ID No. 10268 and Package No. e-Tender: Bag-19/2014-15)	297.91	297.91	7/9/2014	08/01/2015	25/06/2015	30.03.2016

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Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Proposal Cost (in lakh Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per PP	Contracted value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Re-excavation of Chaukhathi Khal from km. 0.000 to 10.300 = 10.300 km under Integrated Water Management Project of Polder- 34/2 in Bagerhat district during the year 2014- 15. (Tender ID No. 10235 and Package No. e-Tender: Bag-17/2014-15)	285.69	285.69	7/9/2014	07/01/2015	25/06/2015	26.05.2016
Re-excavation of Old Passur River from km. 2.300 to 4.950 = 2.650 km under Integrated Water Management Project of Polder- 34/2 in Bagerhat district during the year 2014-15. (Tender ID No. 9885 and Package No. e-Tender: Bag-09/2014-15)	392.65	392.65	26/8/2014	05/01/2015	25/06/2015	30.06.2016
Re-excavation of Old Passur River from km. 0.000 to km. 2.300 km under Integrated Water Management Project of Polder- 34/2 in Bagerhat district during the year 2014-15. (Tender ID No. 9883 and Package No. e-Tender: Bag-08/2014-15)	427.77	427.77	26/8/2014	07/02/2015	23/06/15	29.05.2016
Re-excavation of Old Passur River from km. 9.350 to km. 17.000 km under Integrated Water Management Project of Polder- 34/2 in Bagerhat district during the year 2014-15	357.38	357.38	10/12/2014	22/03/2015	25/6/2015	29.05.2016
Re-excavation of Old Passur River from km. 4.950 to km. 9.350 km under Integrated Water Management Project of Polder- 34/2 in Bagerhat district during the year 2014-15	489.73	489.73	10/12/2014	26/02/2015	25/6/2015	25.06.2016

8.2 Use of Project Consultant (s) (Foreign/Local): N/A.

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 :	Nil			
b) Local :	Nil			

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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 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
2012-13	300.00	300.00	-	1.79%	195.00	195.00	-	3.15%
2013-14	9879.60	9879.60	-	59.07%	800.00	800.00	-	12.92%
2014-15	6546.52	6546.52	-	39.14%	2494.99	2494.99	-	40.31%
2015-16	-	-	-	-	2699.95	2699.95	-	43.62%
Total =	16726.12	16726.12	-	100%	6189.94	6189.94	-	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
2012-13	195.00	195.00		3.15%	195.00	195.00	195.00	-	3.15%
2013-14	800.00	800.00		12.92%	800.00	800.00	800.00	-	12.92%
2014-15	2494.99	2494.99		40.31%	2494.99	2494.99	2494.99	-	40.31%
2015-16	2699.95	2699.95		43.62%	2699.95	2699.95	2699.95	-	43.62%
Total =	6189.94	6189.94		100.00%	6189.94	6189.94	6189.94		100.00%

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT :

Objectives as per PP	Actual achievement	Reasons for shortfall, if any
<ul style="list-style-type: none"> * The main objectives of the project are flood and drainage management in an integrated way in the project gross area 47394 ha and net area 29304 ha. * To protect saline water intrusion; * To improve irrigation facilities by using surface water during dry season. * To preserve bio-diversity 	<ul style="list-style-type: none"> * Drainage congestion has been removed from net 29304 ha area of the project. * 110.30km of khal re-Excavation has improved dry season surface water flow on khals and therefore has facilitated irrigation. * Bio-diversity preserved at some extent. 	<p>The Project Steering committee decided to close and complete the project within June' 2016 completing only Re-excavation works dropping Construction of Embankment, leaving Sluice gates and other works at present incomplete condition. According to approved RDPP of the project there is no shortfall .</p>

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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).
1. Groth in food grain production	Ton	69360.00	Yet to be assessed.
2. Drainage facilitation	Ha	29304.00	

02. Cost / Benefit :

Item		Estimated	Actual
(1)	Benefit cost ratio of the project (BCR)		Will be evaluated later by concern directorate of BWDB .
	(i) Financial	1.53 : 1	
	(ii) Economic	1.77 : 1	
(2)	Internal Rate Return (IRR)		
	(i) Financial	18.55%	
	(ii) Economic	19.89%	
(3)	Net present value (NPV)		
	Financial	7777.98	
	Economic	7822.11	

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

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:	24-10-2013	Not found	
1. Dr.Zafar Ahmed Khan Senior Secretary, MoWR	06-03-2014	Not found	
Mr.Md: Giass Uddin Ahamed ADG Western Region ,BWDB, Dhaka	06-03-2014		
Mr.Anisul Islam Mahmud Honorable Minister, MoWR	22-12-2014	Not found	
	04-01-2015	Not found	
Mr.Shajahan Khan Honorable Minister, MoS	04-01-2015	Not found	
Mr. Brojomohon Nath SE, Design-v	01-09-2014	Design	New design required.
Director General-1, Honorable Prime Minister office, Dhaka.	25-01-2015	Not found	

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Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
Mr. Abdul Latif Mia CE, South-West Zone, Khulna.	01-04-2015	Progress	To accelerate the progress
Mr. Md. Ismail Hossain Director General, BWDB	21-05-2015	Progress	To accelerate the progress
Mr. KM Anower Hossain CE, South-West Zone, Khulna.	21-05-2015	Progress	To accelerate the progress
(b) IMED :			
Mr. Porimal Chandro Bosu Deputy Director, IMED	07-08-2015	Slow Progress	To accelerate the progress
Director General, IMED	23-01-2016	Progress	To accelerate the progress
Mrs. Lauxmi Chakma Assistant Director, IMED	21-05-2017	Work substantially completed	The project may be closed dropping incomplete work (regulator, embankment etc) The O&M work will be running after implementation of Re-excavation and Re-sectioning of embankment. To use unused construction materials of incomplete regulator on other relevant construction works as the bill was paid for unfinished works. Take necessary action as per recommended
(c) Others (Please specify) :			
Mr. Talukder Abdul Khalek Honorable MP	04-01-2015	Progress	To accelerate the progress
	15-03-2015	Progress	To accelerate the progress

0.2. Auditing during and after Implementation: No Internal audit were conducted.

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
Nil			

2.2. External Audit:

Audit period	Date of submission of Audit Report	Major findings/ objections	Whether objections resolved or not.
1	2	3	4
2012-2013	-	Nil	
2013-2014	-	Nil	
2014--2015	-	Nil	

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Audit period	Date of submission of Audit Report	Major findings/ objections	Whether objections resolved or not.
1	2	3	4
2015-2016	27/04/2017	অলীক কাজ দেখিয়ে ঠিকাদারকে বিল পরিশোধ	Reply of Audit objection has been sent but not resolved.
	27/04/2017	কর্তনকৃত মাটি সুনির্দিষ্ট দূরত্বে না ফেলা সত্বেও বিল পরিশোধ	-Do-

G. DESCRIPTIVE REPORT

1. General Observations/Remarks of the Project on :

1.1 Background; In 1964 a master plan was prepared by IECO for protection of land against flooding and improving drainage congestion to boost up agricultural production. The Master Plan proposed Costal Embankment Project to prevent saline water intrusion and tidal floods. There is salinity within the project area during dry season. The area is subject to tidal flooding during spring tide and also in monsoon. For interior dyke they have recommended 1: 1.5 slopes in the country side but later on LDL (1968) recommended 1:2 slopes.

M/s Halcrow and EPC prepared South west area water resources management Project in 1993 under flood action Plan (FAP). The study concentrated on the costal polder rehabilitation and identified 7(seven) sub-projects out side the project area. How ever, M/S Halcrow has studied costal polders and recommended measures in the costal area. The proposed project area was included in original costal Embankment project as polder 34/2 but was not implemented.

A feasibility study Completed by Engineering & Associate Ltd in Aught 1998 namely “Rehabilitation & Improvement of BWDB project in Bagerhat District” which included 8 polders out of 73 polders of Costal Embankment Project. Polder 34/2 was included within the 8 polders and considered for a single project. Furthermore, as the study was conducted 21 years ago, a lot of change have been occurred in hydrology, topography., drainage ,River morphology & hydraulics, sediment, soil, bio-diversity, environment etc. But instead of single project, 3 separate sub-project joekhali, Gabkhali and amirpur-Bandercot have been implemented and which now are suffering from drainage congestion.

Feasibility was completed as” Feasibility study for Baintala-Banstali FCD Project” which was a part of polder 34/2 by BWDB, dhaka in 2000-01. The Baintala Banstali project is situated in Rampal Upazila of Bagerhat District. The project area is subjected to tidal flooding during spring tide and monsoon, salinity intrusion and drainage congestion causing damage/reduce crop production in the area. During dry season the area suffers from shortage of fresh water supplies. It was observed from feasibility study that heavy siltation in the Bisnu river. The Daudkhali river and Telikhali Khal creates drainage congestion in near by polders According to the sedimentation study there would be serious drainage cogestion in an around Bantala Banstali FCD project if implementd. And the study did not recommeended implementation of Baintali Banstali project. Because the project was not economically viable due to very high O&M cost.

But the local people were strongly demanding for the implementation of the project since then. Regular saline water intrusion is reducing fertility of the land gradually. So the farmers are not getting crops to their expectation and the local people also suffering many ways. Furthermore, during flood time people are suffering utmost distress due to flashing away the home stead, roads, crops etc. In this context, a technical committee was formed to review the previous study and recommended if the project is viable or not in present condition.

The committee observed that Daudkhali and telikhali khal completely silted up and Bishnu river also get narrowed due to siltation which reflects the prediction in the previous study. The causes the extreme siltation is working now. So drainage siltation might not improve as per expectation if the Baintali –Banstali project is implemented only. On the other hand, the drainage condition to the south of the implemented project in Joekhali and Ghabkhali is being obstructed gradually.

The observation of the committee indicated that the whole water basin to be included in the feasibility study.

On completion of the study various measures for water management in polder 34/2 would be identified that would ensure better water management in polder 34/2 within minimum siltation in the river and khal



1.2 Justification/Adequacy : To make the large population of farmers sustainable by introducing improved crop production in the polder area. Construction of the polder was utmost necessary. Moreover, the construction of the polder will definitely elevate the poverty of the poor people of the area. The crop and fish production will also be increased.

- 1.3 Objectives :**
- * The main objectives of the project are flood and drainage management in an integrated way in the project gross area 47394 ha and net area 29304 ha.
 - * To protect saline water intrusion.
 - * To improve irrigation facilities by using surface water during dry season.
 - * To preserve bio-diversity

1.4 Project revision with reasons : Proposed polder 34/2 is consist of Rampal, Mongla, Bagerhat Sadar and Fakirhat upazilla (part) of Bagerhat District and Batiaghata upazilla of Khulna District. Proposed Polder area is surrounded by Old Passur in the north-west, Passur in the south-west, Mongla-Kumar-Ghashiyakhali channel in the south-east and Bisnu river in the east side. The Project has been adapted to improve drainage facility of the internal drainage body, to mitigate flood inundation and to control saline intrusion.

“Integrated Water Management Project of Polder 34/2 in Bagerhat District (Recast)” was approved in the ECNEC meeting held on 04.10.2012 and administrative approval had been obtained from MoWR vide memo.

No.: 42.043.014.01.01.010.2009-163, Date: 15.11.12 . The major civil works of the original DPP are:

- Re- Excavation of Khals/ Rivers (110.300 km.)
- Construction of embankment (49.98 km.)
- Reshaping of embankment (20.34 Km)
- Construction of Regulator (13 nos.)
- Turfing and Tree plantation (70.32 Km.)

As it took 5 months (till November) to acquire administrative approval of the project of the first financial year (2012-13), it left only seven months to complete the entire program of the first financial year. Nonetheless, tenders were floated for nine regulators immediately after acquiring administrative approval.

1st meeting of the steering committee of the project was held on 17.06.2013 in MoWR . In this meeting it was decided to form a technical committee to phase out the entire project in priority basis to get the benefit of the project earlier . The technical committee has visited the site rigorously and ranked the components of the work on priority basis and also recommended to include another three regulators in the DPP .

On the basis of the recommendation of the technical committee, 2nd meeting of the steering committee of the project was held on 01.06.2014 in MoWR. The meeting decided to employ a representative to justify the requirement of three additional regulators . Accordingly the authorized representative has submitted his report visiting the project area.

In the 3rd steering committee meeting (held on 28.10.2014 in MoWR), decision was taken to adapt three additional regulators in Shamali, Rampal and Urubunia khal in the revised DPP .

The meeting also decided to provide adequate closure for the khals connected with PDS-2, PDS-3, PDS-7 and PDS-8 and instructed to prepare the revised DPP extending the project implementation period up to June/2016.

The project is lacking behind of its targeted (according to DPP) physical and financial progress. According to DPP in 1st (2012-13), 2nd year (2013-14) and 3rd (2014-15) the ADP allocation were 300.00 Lakh, 9879.60 lakh and 6546.52 Lakh tk. respectively. But in reality, the project ADP allocations were for 1st year-195.00 Lakh, 2nd year-800.00 lakh and for 3rd year-2495.00 lakh only. This means, the

ADP allocation has hindered the expected progress of the project, which leads to time extension of the project. In this context a RDPP was first submitted in January'2015.

It was apprehended by the consultants –CEGIS (engaged by BIWTA under Mongla-Ghasiakhali Channel) that completion of polder 34/2 by constructing embankment, sluices/regulators may reduce the area of flood-planes which may hamper the navigability of Mongla-Ghasiakhali channel and will lead the ongoing BIWTA dredging works in the channel to a failure. As the Mongla-Ghasiakhali channel in a Indo-Bangla protocol route it should be given priority. In this context Honorable Minister, Ministry of Water Resources instructed verbally to stop construction of polder and sluices and to expedite Re-excavation of khals/rivers, which he re-confirmed on 04-01-2015 during his visit to Mongla-Gasiakhali channel with the honorable Minister, Ministry of Shipping that construction of sluices and embankment to be stopped and dropped, only re-excavation of khals/rivers to be continued and be expedited and more khals to be included for re-excavation. Alos decision was taken in an inter-ministerial meeting between ministry of Water Resources and Ministry of Shipping on 01-06-2015 to stop (drop) construction of polder embankment and sluices/regulators. However in order to emphasize more on Mongla-Gasiakhali channel as a Indo-Bangla protocol route it is required to expedite and increase re-excavation works in the polder area and to stop the construction of embankment and sluices. Though the construction of sluices were in half the way where 3nos were completed and other 9 nos where in substantial progress (foundation works, ie sheet piles, sand piles, earth work, Cement concrete works, etc done).

Apart from this, an inter-ministerial meeting between ministry of Water Resources and Ministry of Shipping on 10-08-2015 decision was taken to submit DPP within August/2015. Beside this a meeting was held on 17.09.2015 presided by the local Honorable MP, Mr. Talukder Abdul Khaleq along with Divisional commissioner of Khulna Division, DC, Bagerhat, XEN, BWDB, Bagerhat and with other dignitaries about the progress of Mongla-Ghashiyakhali channel excavation work under BIWTA. In this meeting, a decision was taken to identify all the connecting khals/ rivers of Mongla-Ghashiyakhali channel and excavate them all. According to those decision, 83 khals/rivers have been identified with a total length of 309.68km. Re-excavated work of original 18 nos & additional khals/ rivers will improve the drainage capacity of the polder itself and will also improve the thrash / navigation of Mongla-Ghashiyakhali channel. Re-excavation program of these 83 khals/rivers DPP has been submitted .

The flood due to tidal flow and depression in the sea and water logging due to rainfall to be occurred in the project areas needs to be addressed and mitigated by re-excavation of more khals/rivers for rapid release of flood and water logging of the project area. Therefore, according to the recommendation and decision of the inter-ministerial meeting as well as per decision of RADP review meeting of MoWR held on 07.6.2015 the Revised DPP has been recast in October-2015 where the DPP component: construction of embankment is dropped and the DPP component: construction of sluices/regulators is stopped (at half the way). It is to be noted that implementation period has already been extended up to June/2016

In the prevailing condition the project's Steering Committee meeting held on 21-01-2016 in its 5th meeting and the committee decided to close and complete the project within June' 2016 completing only Re-excavation works dropping Construction of Embankment, leaving Sluice gates and other works at present incomplete condition.

RDPP has again been recast in February, 2016 and thus submitted for approval. Accordingly a meeting of PEC

held on 14.7.2016 and as per decision of PEC meeting the revised DPP with actual cost of TK.6189.94 lakh has been again recast and submitted for approval by competent authority approved on 09.7.2017

2. Rationale of the project in respect of Concept, Design, Location and Timing. : Bangladesh is a densely populated with poor natural resources base, lack of industrialization and vulnerability of natural disaster like flood, cyclone etc made Bangladesh as one of the poorest countries of the world. The major problem responsible for poverty includes high level of landlessness, unemployment, illiteracy and malnutrition. The population of the project area is very dense (about 750 per square kilometer) and landless population is about 30% Socioeconomic development of the people through agricultural development is the main objective to alleviate poverty of the area. The proposed intervention has very little impacts or no negative impacts in and around the area. The project will create new employment opportunity through improved agricultural productivity, enhancement of fisheries activities, navigation, trade, construction works and operation & maintenance works.

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

- ◆ **Project Identification :** There a feasibility study was conducted by IWM to explore the possibilities of the project.
- ◆ **Project Preparation :** IWM conducted the feasibility study. According to their approved study report, Bagerhat O & M Division, BWDB, Bagerhat have been prepared the DPP & proposed it for approval from competent authority.
- ◆ **Appraisal :** The project was appraised by the planning commission 04-10-2012 and approved by the competent authority.
- ◆ **Credit Negotiation : N/A**
- ◆ **Credit Agreement : N/A**
- ◆ **Credit Effectiveness : N/A**
- ◆ **Loan Disbursement: N/A**
- ◆ **Loan Conditionalities: N/A**
- ◆ **Project Approval.** The project has been approved by the ECNEC on 04-10-2012 original DPP and revised DPP on 09-07-2017.
- ◆ **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: N/A
- 4.3 O & M programme of the project. : The project will be carried over by none development budget of BWDB.
- 4.4 Impact of the project –
- a.Direct:The production of crop has already been increased up to 20% as reported by the cultivators. The production may be increased up to 50% as informed by the stake holders.

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b. Indirect: Socio-economic condition of the project area has already been increased to a good extent.

4.5 Employment generation through the project:

The employments of poor / Landless people have already been generated through the project.

4.6 Possibility of self employment:

The facility of self employment has already been generated to a good extent.

4.7 Possibility of women-employment opportunity:

The women employment opportunity has already been generated in crop production.

4.8 women's participation in development:

The women of the area have already participated in the development works.

4.9 Probable Impact on socio-Economic activity:

The socio-economic condition of the project area has already been developed to a good extent.

4.10 Impact on environment:

There will be no adverse impact on environment.

4.11 Sustainability of the project:

The project will sustain through active involvement of Stake Holders.

4.12 Contributions to poverty alleviation / reduction:

The project will contribute gradually in reducing / alleviating poverty.

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

The project itself is a public participatory project.

4.14 Contribution of Micro-credit programmed and comments on overlapping with any NGO

activities: ***Problems encountered during Implementation (with duration & steps taken to remove those)***

5.1	Project Management:	5.12	Project aid disbursement and re-imbursment
5.2	Project Director:		:N/A
5.3	Land Acquisition:	5.13	Mission of the development partners. :N/A
5.4	Procurement:	5.14	Time & Cost Over-run:N/A
5.5	Consultancy:	5.15	Project Supervision/Inspection:N/A
5.6	Contractor:	5.16	Delay in Decision:N/A
5.7	Manpower:	5.17	Transport:N/A
5.8	Law & Order: in the project area, social unrest prevailed sometimes, which hampered physical progress & delayed progress of the work.	5.18	Training:N/A
5.9	Natural calamity:	5.19	Approval:N/A
5.10	Project financing, allocation and Release. :	5.20	Others. :N/A
5.11	Design formulation/approval: Dose arise/No such proveblem arise		

As/In

6. Remarks & Recommendations of the Project Director: After partial completion of re-excavation of khals on Integrated water management in Polder-34/2 project, drainage congestion on 29304 ha area have been removed and thus this project has improved irrigation facilities as well. To maintain the regular water flow on Mongla-Ghoshiakhali channel, another project of 83 khals re-excavation has been undertaken by the Government to minimize the de-siltation process of that channel. That project also covers Polder-34/2. Hence, the activities of polder-34/2 project has been restricted to khal re-excavation only by abandoning hydraulic structure and embankment construction. So that Mongla-Ghoshiakhali channel can maintain its normal flow and also navigation facilities get increased.

29-7-2019

Date :

A. Rashid

Signature and seal of the Project Director/Manager

(Md. Bazlur Rashid)
Superintending Engineer
Khulna O&M Circle
BWDB, Khulna

7. Remarks/comments of Agency Head

This project have been completed partially according to original approved DPP. The Govt has prioritized to maintain regular water flow on Mongla-Ghoshiakhali channel for navigation to Mongla port from the sea. So BWDB has already taken another project to re-excavate 83 canals linked to Mongla-Ghoshiakhali channel, which also includes integrated water management on polder 34/2. Implementation of this completed project have been restricted to canal re-excavation only by abandoning incomplete construction of hydraulic structures and embankment as per decision of policy making authorities of the country. After re-excavating 110.30 km of canals, it is expected to facilitate drainage on estimated 29304 ha area which can increase food grain production up to 69360 Ton.

7.

Date :

29/7/2019

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

8. Remarks/comments of the officers in-charge of the Ministry/Division

Date :

Signature and Seal