

BANGLADESH WATER DEVELOPMENT BOARD



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

Name of Project : - Rehabilitation of Coastal Polders Most at Risk

Project Period : - July 2003 – June 2011

Office of the Project Director : Project Management Office, ECRRP (BWDB-Part)
BWDB, Dhaka.

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

PROJECT COMPLETION REPORT : IMED 04/2003 (Revised)

A. PROJECT DESCRIPTION :

01. Name of the Project : Rehabilitation of Coastal Polders Most at Risk.
 02. Administrative Ministry/Division : Ministry of Water Resources.
 03. Executing Agency : Bangladesh Water Development Board.
 04. Location of the Project :

Division	Districts	Upazila
1	2	3
Khulna	Bagerhat	Sarankhola
Barisal	Barguna	Barguna Sadar
Chittagong	Chittagong , Noakhali & Cox's Bazar	Sandwip, Bashkhali, Ramgati, Cox's Bazar Sadar, Moheskhali and Teknaf.

05. Objective of the Project :
- The main object of the project is rehabilitation of the Coastal Polders most at risk.
 - To make the polders functional and to provide efficient water management through implementation of improved O & M works and maintenance of the polders involving the community.

06. Estimated Cost :

(In lakh Taka)

	Original	Latest Revised
(a) Total	5933.12	7126.97
(b) Taka	5933.12	7126.97
(c) Foreign Currency	-	-
(d) Project Aid	-	-
(e) RPA	-	-

07. Date of Approval :

PCP	PP
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- (a) Original : 21-01-2004 13-03-2004
 (b) Latest Revised : 02-11-2009

08. Implementation Period :

	Date of Commencement	Date of Completion
(a) Original	July. 2003	June, 2006
(b) Latest Revised	July. 2003	June, 2010
(c) Actual	July. 2003	June, 2011

09. Financing Arrangement (Source-wise) :

9.1 Status of Loan/Grant

a) Foreign Financing :

Source (s)	Currency as per Agreement	Amount in US \$ (Million)	Nature (Loan/Grant/supplier's/credit)	Date of Agreement	Date of 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
Not Applicable			

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-imbursible Project Aid (RPA):

(In lakh Taka)

R P A Amount		Amount Spent	Amount Claimed	Amount Re-imbursed	Remarks
As per PP	As per Agreement				
1	2	3	4	5	6
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 2003 to June 2006	July 2003 to June 2010	July 2003 to June 2011	167.00% ✓	

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	5933.12	7126.97	6713.75	13.16 ✓	
TAKA	5933.12	7126.97	6713.75	13.16	
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)	27	31	27			
Staff(s)	109	97	109			
Total :	136	128	136			

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

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			Not Applicable		
b. Local					

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
Revenue Component						
a) IWM Study cost	1 item	19.97	100.00%	19.97	100.00%	
b) Survey & Investigation	1 item	49.73	100.00%	49.37	99.27%	(-) 0.36
c) Community Development	1 item	48.00	100.00%	15.45	40.00%	(-) 32.55
d) Contingency	1 item	53.50	100.00%	53.50	100.00%	
e) Overhead	1 item	263.00	100.00%	263.00	100.00%	
Sub-Total		434.20		401.29		(-) 32.91
Capital Component						
a) Land Acquisition (72.84 ha)	ha	548.31	100.00%	547.38	99.53%	(-) 0.93
b) Construction of Retired embankment (43.718 Km.)	km	1485.96	100.00%	1485.17	99.95%	(-) 0.79
c) Resectioning. of embankment (22.63 Km.)	km	1203.29	100.00%	1077.85	89.57%	(-) 125.44
d) Wave action Protection (1.72 Km.)	km	1402.41	100.00%	1243.96	88.70%	(-) 158.45
e) Bank Erosion Protection (1.66 Km.)	km	152.44	100.00%	152.44	100.00%	
f) Construction of sluice (8 Nos)	no	908.35	100.00%	817.95	90.05%	(-) 90.40
g) Repair & Maintenance of sluice (12 nos)	no	17.01	100.00%	17.01	100.00%	
h) Improved O & M (14 polders)	no	975.00	100.00%	970.70	99.56%	(-) 4.30
Sub-Total		6692.77		6312.46		(-) 380.31
Grand-Total		7126.97		6713.75		(-) 413.22

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. Saidur Rahman (Chief Engineer/ Project Director) Tk. (12900-14300)	Yes	-	Yes	25.01.2000	13.01.2005	
Md. Aminul Islam (Addl. Chief Engineer/ Project Director) Tk. (15000-19800)	Yes	-	Yes	13.01.2005	28.12.2006	
Md. Ali Akbar (Chief Engineer/ Project Director) Tk. (15000-19800)	Yes	-	Yes	28.12.2006	06.05.2008	
Md. Aminul Haque (Chief Engineer/ Project Director) Tk. (25700-33750)	Yes	-	Yes	06.05.2008	10.09.2008	

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. Sajedul Karim (Chief Engineer/ Project Director) Tk. (25700-33750)	Yes	-	Yes	10.90.2008	12.02.2009	
Md. Abdul Jalil (Addl. Chief Engineer/ Project Director) Tk. (29000-35600)	Yes	-	Yes	12.02.2009	21.12.2010	
Md. Akhtar Hossain (Chief Engineer/ Project Director) Tk. (29000-35600)	Yes	-	Yes	21.12.2010	08.12.2010	
Md. S.M.Azizul Haque (Addl. Chief Engineer/ Project Director) Tk. (29000-35600)	Yes	-	Yes	08.12.2010	24.10.2011	
Md. Iqbal Hussain (Superintending Engineer/ Project Director) Tk. (25750-33750)	Yes	-	Yes	24.10.2011	-	

07. Procurement of Transport (in Nos.): No Transport was procured.

Type of transport	Number as per P.P.	Procured with date	Transferred to Transport Pool with date	Transferr ed to O & M with date	Condemned/ damaged with date	Remarks
1	2	3	4	5	6	7
Car						
Jeep						
Microbus						
Minibus						
Bus						
Pick-up						
Truck						
Motor Cycle						
By-cycle						
Speed Boat						
Launch						
Others with name						

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
Rehabilitation of Polder no. 64/C, Banskhali, Chittagong	408.37	469.79	18-05-2004	04.11-2004	30.06.2006	30.06.2006
Rehabilitation of Polder no. 72, Sandwip, Chittagong	750.38	795.16	02-05-2006	20.08.2006	15.06.2007	15.06.2007
Rehabilitation of Polder no. 70, Moheshkhali, Cox's Bazar	1606.25	1262.99	31-08-2008	10.10.2010	15.05.2011	15.05.2011
Rehabilitation of Polder no. 35/1, Sharonkhela, Bagerhat	455.69	522.24	18.06.2004	28.10.2004	30.06.2006	30.06.2006
Rehabilitation of Polder no. 59/2, Ramgati, Laxmipur	355.46	368.58	16.05.2004	20.09.2004	30.06.2006	30.06.2006
Rehabilitation of Polder no. 68, Teknaf, Cox's Bazar	352.50	440.00	25.05.2009	15.11.2009	08.04.2010	08.04.2010

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 :	Not Applicable			
b) Local :				

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
Not Applicable						

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
2003-2004	100.00	100.00	-	1.69	29.58	29.58		0.41
2004-2005	3176.05	3176.05	-	53.53	1142.75	1142.75		16.03
2005-2006	2657.07	2657.07	-	44.78	939.65	939.65		13.19
2006-2007	-	-	-	-	1197.49	1197.49		16.80
2007-2008	-	-	-	-	773.20	773.20		10.85
2008-2009	-	-	-	-	310.68	310.68		4.36
2009-2010	-	-	-	-	2733.62	2733.62		38.36
Total	5933.12	5933.12		100.00	7126.97	7126.97		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
2003-2004	30.00	30.00		0.50	30.00	29.58	29.58		0.50
2004-2005	1150.00	1150.00		20.00	1150.00	1142.75	1142.75		16.00
2005-2006	950.00	950.00		16.00	950.00	939.65	939.65		13.18
2006-2007	2000.00	2000.00		23.00	2000.00	1195.00	1195.00		16.76
2007-2008	1000.00	1000.00		23.00	1000.00	773.20	773.20		10.85
2008-2009	583.00	583.00		8.93	583.00	310.68	310.68		4.36
2009-2010	650.00	650.00		9.14	650.00	596.31	596.31		8.37
2010-2011	1780.00	1780.00		24.98	1780.00	1726.58	1726.58		24.22
Total	8143.00	8143.00		-	8143.00	6713.75	6713.75		94.24

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT :

Objectives as per PP	Actual achievement	Reasons for shortfall, if any
(a) The main objective of the Project is rehabilitation of the coastal Polders most at risk	Objective achieved	
(b) To make the polders functional and to provide efficient water management through implementation of improved O & M works and maintenance of the polders involving the community.	Objective achieved	

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).
Analysis not performed			

02. Cost / Benefit :

Item	Estimated	Actual
(1) Benefit cost ratio of the project (i) Financial	6.61 : 1.00	Not yet calculated.
(ii) Economic	7.40 : 1.00	
(2) Internal Rate of Return (i) Financial	46.37%	
(ii) Economic	48.13%	

03. Please give reasons for shortfall, if any, between the estimated and actual benefit: Not Applicable

F. MONITORING AND AUDITING

0.1 Monitoring:

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
(a) <u>Ministry / Agency:</u>			
(b) <u>IMED :</u> i) Joint Chief, Irrigation Wing, Planning Commission ii) Representative of PSM iii) Representative of IMED iv) Representative of Program Division v) Representative of BWDB vi) Senior Asst. Chief, Irrigation Wing, Planning Commission	09.04.2009 to 11.04.2009	a) Construction/ Rehabilitation for most risk portion of Embankment at Bashkhali is not completed b) Rehabilitation work is essential for risk portion of embankment at Patenga & Shitakundu c) Construction of one no. regulator is essential for the Project but construction program is not yet taken. d) Un-authorized inlet is found at Balghat (Ch. 11.60) of Saroytola which was constructed by some unauthorized person.	a) Necessary actions should be taken to complete the remaining portion of embankment. Action taken : Construction of remaining portion of embankment has been completed b) Necessary action should be taken for risk portion of embankment. Action taken : Rehabilitation work for risk portion of embankment has been completed c) Necessary action should be taken for Construction of regulator. Action taken: Major portion of construction work of regulator is completed. The program has been taken for remaining portion. d) Necessary action should be taken for Un-authorized inlet. Action taken: Function of the Un-authorized inlet has been closed.
		e) Local People are constructed Un-authorized household on the countryside of Embankment	e) Necessary action should be taken to remove the Un-authorized household. Action taken: Necessary action has already been taken to remove the Un-authorized household.
(c) <u>Others:</u> (Please specify)			

0.2. Auditing during and after Implementation:

2.1. Internal Audit:

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

2.2. External Audit:

Audit period	Date of submission of Audit Report	Major findings/ objections	Whether objections resolved or not.
1	2	3	4
2007-2009	04.04.2011	Bank Guarantee for Performance Security is not in encash due to failure of work	Objection resolved
2007-2009	17.04.2011	Irregular Payment is made for trufing of Embankment	Objection resolved
2007-2009	17.04.2011	Govt. money is misused for rehabilitation or resectioning of embankment.	Objection resolved
2007-2009	04.05.2011	Irregular Payment is made for salvaging and stacking of C.C blocks	Objection resolved

G. DESCRIPTIVE REPORT

1. General Observations/Remarks of the Project on :

1. Background

Bangladesh Water Development (BWDB) has constructed 123 Polders in the coastal region. Out of these, 49 Polder are sea feacing. Due to the presence of these polders 12,80,479 ha of valuable land has become flood free. These Polders have been playing vital role in increasing agricultural products, improving livelihood of the people and environment in the coastal region.

At present many of these polders are suffering from damage and breach of embankments due to waves, storm surges and progressive shore/bank erosion. BWDB has taken up a project for the emergency rehabilitation of damage and vulnerable 7 high-risk polders and improvement of O & M of other 15 high-risk polders with GoB fund.

Under this project, BWDB commission of institute of Water Modelling (IWM) in May 2004 to undertake "Hydraulic Modelling Study for Rehabilitation of Affects Seven High- Risk Coastal Polders". The selected 7 high-risk Polders for emergency rehabilitation are polder-35/1 at Swarankhala, Bagerhat, Polder- 41/3 & Polder 41/6A at Barguna Sadar, Polder- 59/2 at Ramgati, Lakshmipur, Polder 64/1C at Bashkhali, Chittagong, Polder 70 at Maheshkhali, Cox's Bazar and Polder -72 at Sandwi, Chittagong.

1.2 Justification/Adequacy In view of having brilliant success in Rehabilitation of coastal Polders Most at Risk. Project covers 14 nos. polder in upazila Sarankhola, Barguna Sadar, Sandwip, Bashkhali, Ramgati, Cox's Bazar Sadar, Moheshkhali and Teknef. The aim of the project is to improve the economic situation and living condition of the population in the coastal areas of Southern Bangladesh. The Project will contribute towards partial achievement of structural strategic goal by protect flood, improve drainage and reduce vulnerability to water related disasters including sea erosion and cyclonic surges.

1.3 Objectives

- The main objective of the project is rehabilitation of the Coastal Polders most at risk.
- To make the polders functional and to provide efficient water management through implementation of improved O & M works and maintenance of the polders involving the community.
- The objective of the project is targeted to to reduce rural poverty to a large extent as laid down in NSAPR-II.

Linkage with NSAPR-II

Structural Goals :

- Expend utilization of surface water including coastal polders and arsenic prone areas
- Augment utilization of surface water all over the country for efficient water management (conjunctive use of surface and ground water) to ensure water quality with environmental flows in rivers.
- Rationalize utilization of ground water
- Protect flood, improve drainage and reduce vulnerability to water related disasters including sea erosion and cyclonic surges
- Protect Haror, Baor/wetland/ Surderban/Saline water intrusion and promote accretion of land from sea.
- Manage erosion of major rivers and protect large and small towns
- Support revival, extension and maintenance of safe of safe navigation routes for achieving economy of transport.

1.4 Project revision with reasons

The Project needs revision due to change of design, specification, schedule of rates, change of item in earth work and change in scope of structural work.

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

The ultimate objectives of the project are Rehabilitation of the coastal polders Most at Risk and to make the Polders functional and to provide efficient water management through Implementation of improved O & M Works and maintenance of the Polder involving the community. The completed Polders have been playing vital role in increasing agricultural products, improving livelihood of the people and environmental in the coastal region. The project commenced in 2003-2004 and the project objectives were in the line with the approved Interim Poverty Reduction Strategy Paper (IPRSP) and it was relevant with the principal of National Water Policy (NWPo), BWDB Act-2000 and NWMP.

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

♦ Project Identification	}	Not Applicable
♦ Project Preparation		
♦ Appraisal		
♦ Credit Negotiation		
♦ Credit Agreement		
♦ Credit Effectiveness		
♦ Loan Disbursement		
♦ Loan Conditionalities		
♦ Project Approval.		
♦ Others (if any).		

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-		Continuous.
4.3	O & M programme of the project-		Continuous.
4.4	Impact of the project -		
	4.4.1 Direct	Positive Impact	
	4.4.2 Indirect	Positive Impact	
4.5	Transfer of Technology and Institutional Building through the project		Yes
4.6	Employment generation through the project.	Yes.	
4.7	Possibility of Self employment	Yes.	
4.8	Possibility of women-employment opportunity	Yes.	
4.9	Women's participation in development	Yes.	
4.10	Probable Impact on Socio-Economic activity.	Positive Impact	
4.11	Impact on environment	Positive Impact	
4.12	Sustainability of the project	Sustainable	
4.13	Contribution to poverty alleviation/reduction	Positive Impact	
4.14	Opinion of the public representatives, local elite, local administration, teachers, religions leaders, women's representatives etc.	Positive	

4.15 Contribution of Micro-credit programmes and Comments on overlapping with any NGO activities.
NGO activities were included in the Project.

5. 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 | 5.13 Mission of the development partners. |
| 5.3 Land Acquisition | 5.14 Time & Cost Over-run |
| 5.4 Procurement | 5.15 Project Supervision/Inspection |
| 5.5 Consultancy | 5.16 Delay in Decision |
| 5.6 Contractor | 5.17 Transport |
| 5.7 Manpower | 5.18 Training |
| 5.8 law & Order | 5.19 Approval |
| 5.9 Natural calamity | 5.20 Others. |
| 5.10 Project financing, allocation and release. | |
| 5.11 Design formulation/approval | |

No Problem was encountered during Implementation

6. Remarks & Recommendations of the Project Director :

Rehabilitation of Coastal Polders most at risk is a successful Project for protect flood, improvement drainage and reduce vulnerability to water related disasters including sea erosion and cyclonic surges, so this type of Project may be replicated throughout the coastal area to make the polders fuctional and to provide water management through implementation of improved O & M works and maintenance of the polders involving the community.

Date : 12/12/11

Signature and seal of the Project Director/Manager

(MD. IQBAL HUSSAIN)
Project Director
ECRRP (BWDB-Part)
BWDB, Dhaka

7. Remarks/Comments of Agency Head

Date :

Signature and Seal
(Md. Habibur Rahman)
Director General
Bangladesh Water Dev. Board
Dhaka

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

Date :

Signature and Seal