2016-17

IMED : 04/2003 (Revised)

BANGLADESH WATER DEVELOPMENT BOARD

PROJECT COMPLETION REPORT

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

NAME OF PROJECT: TARAIL-PACHURIA FLOOD CONTROL, DRAINAGE AND IRRIGATION PROJECT (2ND PHASE).

DIVISION : GOPALGANJ O&M DIVISION, BWDB, GOPALGANJ.

CIRCLE : FARIDPUR O&M CIRCLE, BWDB, FARIDPUR.

ZONE : WESTERN ZONE, BWDB, FARIDPUR.

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

PROJECT COMPLETION REPORT : IMED 04/2003(Revised)

A. PROJECT DESCRIPTION:

01. Name of the Project : Tarail-Pachuria Flood Control, Drainage and Irrigation Project (2nd Phase) (1st revised).

02. Administrative Ministry/Division : Ministry of Water Resources

03. Executing Agency : Bangladesh Water Development Board.

04. Location of the Project : Tungipara, Kotalipara, Gopalganj Sadar Upazilla in the district of Gopalganj.

05. Objective of the Project :

The main objectives of the project are:

- To provide full flood control on the entire basin comprising of five polders covering a gross benefited area of 21300 ha, of which net area is 16019 ha.
- To improve drainage facilities and provide irrigation facilities for increase agricultural production.
- To prevent intrusion of saline water
- To improve navigation facilities.
- To protect river erosion.
- To achieve the national target by socio-economic development of the project area.
- To alleviate poverty and generate employment opportunities.
- To remove water logging of the project area.
- Accelerating agricultural production, fisheries and other income generating activities.
- Reducing the intensity of flood in order to reduce damage of crops, properties and lives

06. Estimated Cost :

(In Lakh Taka)

	Original	Latest Revised
(a) Total	28144.57	32201.20
(b) Taka	28144.57	32201.20
(c) Foreign Currency	-	-
(d) Project Aid	-	-
(e) RPA	-	-

07 Date of Approval :

	PCP	DPP
(a) Original	---	04-05-2010
(b) Latest Revised		14-06-2017

08. Implementation :

	Date of Commencement	Date of Completion
(a) Original	March, 2010	June, 2013
(b) Latest Revised	March, 2010	June, 2017
(c) Actual	March, 2010	June, 2017

09. Financing Arrangement (Source-wise) :

9.1 Status of Loan/Grant

a) Foreign Financing :

Source(s)	Currency as per Agreement	Amount in US$ (Million)	Nature (Loan/Grant/ Supplier/s/ credit)	Date of Agreement	Date of Effective-ness	Date of Closing	
						Original	Revised
1	2	3	4	5	6	7	8
Not applicable							

b) GOB :

(In lakh Taka)

Total amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
32201.20	-	32201.20	-

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 Reimbursable Project Aid (RPA) :

(In lakh Taka)

R P A Amount		Amount Spent	Amount Claimed	Amount reimbursed	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 DPP		Actual Implementation Period	Time Over-run (% of original implementation period)	Remarks
Original	Latest Revised			
1	2	3	4	5
March, 2010 to June, 2013	March, 2010 to June, 2017	March, 2010 to June, 2017	120.00%	DPP had to be revised with time extension due to the local demand of inclusion of some more physical works.

02. Cost of the Project :

(In lakh Taka)

Description	Estimated Cost		Actual expenditure	Cost over-rum (% of original cost)	Remarks
	Original	Latest revised			
1	2	3	4	5	6
TOTAL	28144.57	32201.20	30599.76	8.72%	Due to Inclusion of some new physical works cost over run from the original cost.
TAKA	28144.57	32201.20	30599.76		
PA	--	--	--	--	

03. Project Personnel :

Sanctioned strength as per DPP	Manpower employed during execution	Status of the existing manpower			Manpower Employed	
		Manpower requirement for O&M as per DPP	Existing manpower for O&M	Others	Male	Female
1	2	3	4	5	6	7
Officer (s)	Existing manpower of the implementing agency were deployed during execution of the project. No separate manpower is needed for the project.					
Staff (s)						
Total :						

* The project is implemented by existing manpower of BWDB. No separate manpower is engaged for the project.

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

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

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

(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
Revenue Component						
4804 Mathematical Model Study	1 item	30.00	1 item	30.00	1 item	
4816 Telephone/Telegram	1 item	2.00	1 item	1.00	1 item	
4823 Petrol and lubricant	1 item	15.00	1 item	15.00	1 item	
4827 Printing and publication	1 item	7.00	1 item	7.00	1 item	
4828 Stationery, seal and stamps	1 item	5.00	1 item	5.00	1 item	
4840 Training (Gate Operator and Water Management Group)	1 item	10.00	1 item	9.79	1 item	
4899 Mid Term Evaluation	1 item	10.00	1 item	10.00	1 item	
4888 Computer/Photocopier & Office equipment	1 item	3.00	1 item	2.24	1 item	
4886 Survey & Investigation	1 item	35.00	1 item	30.75	1 item	
4901 Repairs of Transport & vehicles (Jeep 1 No., Motor Cycle 4 Nos.)	1 item	6.00	1 item	6.00	1 item	
Sub-Total : Revenue Component		**123.00**		**116.78**		
Capital Component						
6807 Jeep (4-wheel)-1 no	No	45.00	1 No.	45.00	1 No.	
6807 Motor Cycle 125 CC-3 nos.	No	4.23	3 Nos	4.23	3 Nos	
6813 Levelling Machine and Staffs- 02 set	Sets	3.00	2 sets.	3.00	2 sets.	
6814 Geographical Positioning System–06 nos	No	2.00	6 Nos.	2.00	6 Nos.	
6814 Photocopier – 02 nos	No	2.50	2 No.	2.50	2 No.	
6815 Computer Brand: Pentium-4 (3 Nos. & 1 No. Laptop, Laser printers with UPS)	No	3.87	4 Nos	3.87	4 Nos	
6901 Land acquisition	Hectare	6645.11	162.73 ha.	6645.11	162.73 ha.	
7041 Construction of Boatpass/Regulator (3m wide)	No	6396.98	31 nos regulator, 7 nos boatpass	5893.04	25 nos regulator, 7 nos boatpass	As per Prime Minister's injunction Boatpass/Regulator not constructed.
7041 Repair of Boatpass Regulator- 3m wide – 2 nos	No	336.09	6 Nos.	294.12	3 Nos.	
7041 Repair of Regulator – 9 nos	No	34.57	6 Nos.	33.97	6 Nos.	
7041 Construction of inspection dyke with 2 nos Culvert	Km	663.00	4.350 km (2 nos box culvert)	626.31	4.350 km (2 nos box culvert)	
7041 Re-excavation of Khal	Km	3062.22	174.462 km	2750.59	169.462 km	Some khals don't need to re-excavate for field condition.

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
7041 Upgrade of flood embankment	Km	4969.41	85.060 km	4847.99	85.060 km	
7041 Construction of embankment	Km	1288.00	15.245 km	1113.47	15.245 km	
7041 Construction of Ramp	No	167.01	100 nos.	167.01	100 nos.	
7041 Construction of Approach Road	No	58.02	44 nos.	58.00	44 nos.	
7081 Slope Protection with construction of walkway & beautification of Tungipara khal (Both side)	Km	1879.00	1.180 km	1643.20	1.180 km	
7041 Repair of box sluice (1-vent, 0.90mx1.20m)	No	5.00	1 No.	0.00	-	
7081 Construction Of Surface Drainage Sluice (2 vent 0.90m dia)	No	363.39	7 Nos.	327.03	7 Nos.	
7081 Construction of pipe inlet (0.60m dia)	No	1323.97	93 Nos.	1320.42	92 Nos.	Due to obstacle by local people an inlet didn't construct.
7081 Bank Protective work	Km	4728.68	5.455 km	4605.31	5.455 km	
7081 O&M during construction	1 item	97.15	1 item	96.82	1 item	
Sub-Total : Capital Component		**32078.20**		**30482.98**		
Grand Total = (Revenue Component + Capital Component) =		**32201.20**	**100%**	**30599.76**	**95.50%**	

06. Information regarding Project Director (s) :

Name & Designation with pay Scale	Full time	Part time	Responsible for more than one project	Date		Remarks
				Joining	Transfer	
1	2	3	4	5	6	7
Engr. Md. Abdul Mazid Molla Superintending Engineer Scale: 25750-33750 (Grade-4)	Full time	-	Yes	11-02-2010	24-11-2013	
Engr. Md. Ikbal Hossain Superintending Engineer Scale: 25750-33750 (Grade-4)	Full time	-	Yes	24-11-2013	06-03-2014	
Engr. Md. Habibur Rahman Superintending Engineer Scale: 25750-33750 (Grade-4)	Full time	-	Yes	06-03-2014	11-09-2014	
Engr. Md. Lutfar Rahman Superintending Engineer Scale: 25750-33750 (Grade-4)	Full time	-	Yes	11-09-2014	21-09-2014	
Engr. Md. Shahabuddin Ahmed Superintending Engineer Scale: 25750-33750 (Grade-4)	Full time	-	Yes	21-09-2014	27-08-2015	
I.M. Reazul Hasan Superintending Engineer Scale: 50000-71200 (Grade-4)	Full time	-	Yes	09-09-2015	28-07-2016	
Abdul Hekim Superintending Engineer Scale: 50000-71200 (Grade-4)	Full time	-	Yes	28-07-2016	30-06-2017	

07. **Procurement of Transport (In Nos.) :**

Type of transport	Number as per D.P.P	Procured with date	Transferred to Transport Pool with date	Transferred to O&M with date	Condemned/ damaged with date	Remarks
1	2	3	4	5	6	7
Jeep (2350 CC)	1 Nos	12 April/2011	--	.05-07-2017	--	
Motor Cycle	3 nos	12 April/2011		05-07-2017		

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 RDPP	Contracted value	Invitation date	Contract signing/L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Land acquisition, 162.73 ha	66.45	66.45	-	-	-	-
River Bank Protection Work along the L/B of Baigarkul river from km 4.000 to 5.070 in polder no.-03	3.68	3.68	24.04.10	20.05.10	20.05.10	20.06.10
Supply of Geo-Bag 250000 nos.	3.48	3.48	01.08.10	01.10.10	01.10.10	30.04.11
River Bank Protection Work along the L/B of Madhumoti river from km 9.00 to 9.50 in polder no.-05	2.12	2.12	01.08.10	01.10.10	01.10.10	30.04.11
River Bank Protection Work along the L/B of Madhumoti river from km 5.00 to 5.40 in polder no.-05	2.16	2.16	01.08.10	01.10.10	01.10.10	30.04.11
Supply of Geo-Bag 221431 nos	2.59	2.59	01.08.10	01.10.10	01.10.10	30.04.11
River Bank Protection Work along the L/B of Madhumoti river from km 20.00 to 20.50 in polder no.-05	2.17	2.17	.01.08.10	01.10.10	01.10.10	30.04.11
River Bank Protection Work along the L/B of Madhumoti river from km 20.50 to 21.00 in polder no.-05	2.44	2.44	01.08.10	01.10.10	01.10.10	30.04.11
Upgrade of Flood Embankment from km 31.13-34.13 in Polder no-2	2.00	2.00	01.08.11	01.10.11	01.10.11	30.04.12
Upgrade of Flood Embankment from km 34.13-37.13 in Polder no-2	2.00	2.00	01.08.11	01.10.11	01.10.11	30.04.12
Upgrade of Flood Embankment from km 37.13-40.13 in Polder no-2	2.47	2.47	01.08.11	01.10.11	01.10.11	30.04.12
Upgrade of Flood Embankment from km 40.13-43.13 in Polder no-2	2.66	2.66	01.08.11	01.10.11	01.10.11	30.04.12
Upgrade of Flood Embankment from km 43.13-46.13 in Polder no-2	2.25	2.25	01.08.11	01.10.11	01.10.11	30.04.12
Upgrade of Flood Embankment from km 0.00-3.00 in Polder no-4	2.56	2.56	01.08.11	01.10.11	01.10.11	30.04.12
Upgrade of Flood Embankment from km 3.00-6.00 in Polder no-4	2.88	2.88	01.08.11	01.10.11	01.10.11	30.04.12
Upgrade of Flood Embankment from km 6.00-9.00 in Polder no-4	3.68	3.68	01.08.11	01.10.11	01.10.11	30.04.12
Upgrade of Flood Embankment from km 9.00-12.25 in Polder no-4	3.02	3.02	01.08.11	01.10.11	01.10.11	30.04.12
Upgrade of Flood Embankment from km 12.25-15.25 in Polder no-4	2.21	2.21	01.08.11	01.10.11	01.10.11	30.04.12
Upgrade of Flood Embankment from km 21.75-25.75 in Polder no-4	2.50	2.50	01.08.11	01.10.11	01.10.11	30.04.12
Construction of 3m wide Boat pass Regulator at Bonna Bari Khal(Ch.32.33)in Polder no-3	2.06	2.06	01.08.12	01.10.12	01.10.12	30.04.13
Construction of 3 m wide Boat pass Regulator at Sailar khal(Ch.12.35km) in polder-4	2.10	2.10	01.08.12	01.10.12	01.10.12	30.04.13
Construction of 3 m wide Boat pass Regulator at Kaowter khal(Ch.22.67km) in polder-4	2.51	2.51	01.08.12	01.10.12	01.10.12	30.04.13

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 RDPP	Contracted value	Invitation date	Contract signing/L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Construction of 2- vent-Regulator (1.50mx1.80m) at Kajulia bazar (Ch. 5.60 km) in polder-2	2.41	2.41	01.08.12	01.10.12	01.10.12	30.04.13
Construction of 2-vent(1.5mx1.8m) Regulator at Charboira (Ch.44.80 km) in Polder no-5	2.16	2.16	10.08.13	10.09.13	10.09.13	20.06.14
Construction of Embankment from km 9.890km to 12.290km=2.40km in poler no -5	2.68	2.68	01.08.13	10.09.13	10.09.13	20.06.14
Construction of Embankment from km12.290km to 14.690km=2.40km in poler no -5	2.22	2.22	01.08.13	10.09.13	10.09.13	20.06.14
Construction of Embankment from km32.883km to 35.355km=2.472km in poler no -5	2.29	2.29	01.08.13	10.09.13	10.09.13	20.06.14
Re-Excavation of Paisarhat khal from 0.00 km to 4.59km=4.59 km.	2.19	2.19	01.08.13	10.09.13	10.09.13	20.06.14
Re-Excavation of Paisarhat khal from 4.59 km to 10.29km=5.70 km.	2.33	2.33	01.08.13	10.09.13	10.09.13	20.06.14
Re-Excavation of Paisarhat khal from 10.29 km to 14.19km=3.90 km.	2.11	2.11	01.08.13	10.09.13	10.09.13	20.06.14
Re-Excavation of Paisarhat khal from 14.19 km to 17.04km=2.85 km.	2.06	2.06	01.08.13	10.09.13	10.09.13	20.06.14
Re-Excavation of Paisarhat khal from 17.04 km to 19.25km=2.21 km.	2.08	2.08	01.08.13	10.09.13	10.09.13	20.06.14
River bank protection work along the right bank of Bagiar river at tungipara upzila complex from Km 25.200 km to Km 25.472=272 m	3.13	3.13	10.07.14	10.09.14	10.09.14	20.06.15
River bank protection work along the right bank of Bagiar river at tungipara upzila complex from Km 25.472 km to Km 25.723=251 m	2.53	2.53	10.07.14	10.09.14	10.09.14	20.06.15
Construction of 13 nos Pipe inlet in Polder no.-3	2.31	2.31	15.03.16	15.06.16	15.06.16	30.06.17
Construction of Embankment in between km 2.140 to km 5.213 = 2.963 km in poler no -1	2.00	2.00	15.03.16	15.06.16	15.06.16	30.06.17
River bank protection work along the right bank of Baigarkul river at pachkhania from Km 27.600 to Km 27.900 = 300.00 m in polder no.-5	5.20	5.20	10.07.16	10.09.16	10.09.16	30.06.17
River bank protection work along the right bank of Baigarkul river at Mondolbari from Km 22.990 to Km 23.150 & Km 23.395 to Km 23.629 in polder no.-5	7.15	7.15	10.07.16	10.09.16	10.09.16	30.06.17
River bank protection work along the right bank of Baigarkul river at Gimadanga Girls Madrasa from Km 29.110 to Km 29.310 in polder no.-5	4.85	4.85	10.07.16	10.09.16	10.09.16	30.06.17
Construction of Regulator cum Boat pass(1-Vent 3.00 m wide) over Pachuramer khal at Km 27.41 at Joaria, Polder no.-3	3.61	3.61	10.07.16	10.09.16	10.09.16	30.06.17
Construction of Boat Pass 01 vent 3.00m wide over Gopalpur khal at km 34.750 at Chaprail of Polder 02	4.50	4.50	10.07.16	10.09.16	10.09.16	30.06.17
Construction of Boat Pass 01 vent 3.00m wide over Kakdanga khal at km 48.170 at Kakdanga of Polder 02	4.50	4.50	10.07.16	10.09.16	10.09.16	30.06.17
Construction of 4 nos 0.90 m dia Surface Drainage structure in Polder nio.-2	2.45	2.45	10.07.16	10.09.16	10.09.16	30.06.17
Construction of Inspection Dyke from km 0.000 to km 4.350 in Polder-3	5.45	5.45	10.07.16	10.09.16	10.09.16	30.06.17
Slope Protection of Tungipara khal total 1.180 km (Both side)	12.49	12.49	10.07.16	10.09.16	10.09.16	30.06.17
Construction of Walkway with Beautification of Tungipara khal total 1.180 km (Both side)	6.30	6.30	10.07.16	10.09.16	10.09.16	30.06.17

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

Name of the Field	Approved man month		Actual man month utilized	Remarks
	As per DPP	As per Contract		
1	2	3	4	5
a) Foreign :	-	-	-	-
b) Local : (Mathematical Model Study by IWM)	16.5	16.5	16.5	

09. Construction/Erection/Installation Tools & Equipment:

Equipment: Survey Instrument.

Type of Equipment	Number as per RDPP	Procured with date	Transferred to Transport Pool with date	Transferred to O&M with date	Condemned/ damaged with date	Remarks
1	2	3	4	5	6	7
Leveling Machine with Staff, Stand etc.	2 sets	9 June/2012 & 3 June/2014	--	05-07-17	--	
Geographical Positioning System (GPS)	6 nos	1 April/201 & 5 June/2014	--	05-07-17	--	

Equipment: Office Equipment.

Type of transport	Number as per P.P.	Procured with date	Transferred to Transport Pool with date	Transferred to O & M with date	Condemned/ damaged with date	Remarks
1	2	3	4	5	6	7
Photocopier	2 nos	28 June/2015 & 29 June/2017	--	05-07-17	--	
Computer Brand: Pentium (3 Nos. & 1 No. Laptop, Laser printers with UPS)	4 nos	28 June/2015 & 29 June/2017	--	05-07-17	--	

C. FINANCIAL AND PHYSICAL PROGRAMME:

01. (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 RDPP			
	Total	Taka	P.A	Physical%	Total	Taka	P.A	Physical%
1	2	3	4	5	6	7	8	9
2009-2010	1657.61	1657.61	--	5.89	99.74	99.74		0.31
2010-2011	9736.94	9736.94	--	34.60	1665.50	1665.50		5.17
2011-2012	12246.86	12246.86	--	43.51	3491.88	3491.88		10.84
2012-2013	4503.16	4503.16	--	16.00	2498.41	2498.41		7.76
2013-14	--	--	--	--	2867.93	2867.93		8.91
2014-15	--	--	--	--	4057.99	4057.99		12.60
2015-16	--	--	--	--	3690.01	3690.01		11.46
2016-17	--	--	--	--	13829.74	13829.74		42.95
Total	28144.57	28144.57	--	100.00	32201.20	32201.20	--	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									
2009-2010	100.00	100.00	--	0.19%	100.00	99.74	99.74	--	0.28%
2010-2011	1700.00	1700.00	--	6.00%	1700.00	1665.50	1665.50	--	6.04%
2011-2012	3500.00	3500.00	--	12.50%	3499.45	3491.88	3491.88	--	12.43%
2012-2013	2500.00	2500.00	--	8.81%	2500.00	2498.41	2498.41	--	8.81%
2013-14	2869.00	2869.00	--	16.50%	2869.00	2867.93	2867.93	--	16.44%
2014-15	4058.00	4058.00	--	11.00%	4058.00	4057.99	4057.99	--	11.00%
2015-16	3700.00	3700.00		15.00%	3690.36	3690.01	3690.01		15.00%
2016-17	12600.00	12600.00		30.00%	12600.00	12226.75	12226.75		25.50%
Total	31027.00	31027.00	--	100.00%	31016.81	30598.21	30598.21	--	95.50%

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Objective as per DPP	Actual achievement	Reasons for shortfall, if any
➢ To provide full flood control on the entire basin comprising of five polders covering a gross benefited area of 21300 ha, of which net area is 16019 ha.	➢ Fully flood free of project area is 16019 hectare.	No Shortfall.
➢ To improve drainage facilities and provide irrigation facilities for increase agricultural production.	➢ Developed drainage & irrigation facilities area is 16019 hectare.	
➢ To prevent intrusion of saline water	➢ Protected intrusion saline water.	
➢ To improve navigation facilities.	➢ Developed navigation facilities.	
➢ To protect river erosion.	➢ Protected river erosion 5.455 km.	
➢ To achieve the national target by socio-economic development of the project area.	➢ Achieved the national goal by socio-economic development.	
➢ To alleviate poverty and generate employment opportunities.	➢ Reduce poverty by creating employment opportunities.	
➢ To remove water logging of the project area.	➢ Water logging problem has been solved/removed.	
➢ Accelerating agricultural production, fisheries and other income generating activities.	➢ Increasing agricultural production, fisheries etc. 3.27 lakh M.Ton.	
➢ Reducing the intensity of flood in order to reduce damage of crops, properties and lives.	➢ By implementing project save crops, properties and lives.	

E. BENEFIT ANALYSIS

01. Annual Out-put :

Items of out-put	Unit	Estimated quantity expected at full capacity	Actual quantity of out-put during the 1st year of operation at full capacity (or during, real production for newly completed project)
Drainage & irrigation facility improvement	Ha.	21300	Yet to be evaluated.
Protection saline water intrusion	Ha.	16019	
Protection river bank erosion	Km.	5.455	
Incremental growth of food grain.	M.Ton	78898	
Public & private infrastructure protected from river bank erosion	Nos.	100000	
Fully flood free area	Ha.	21300	
Beautification of Tungipara khal	km.	1.180	
FIRR	%	16.76 %	
EIRR	%	22.65%	

02. Cost/Benefit : Will be evaluated later by BWDB's concern office & IMED.

Item	Estimated	Actual
(1) Benefit cost ratio of the project		
(i) Financial	1.44:1.00	Will be evaluated later by BWDB's concerned office & IMED.
(ii) Economic	2.11:1.00	
(2) Internal Rate of Return		
(i) Financial	19.10%	
(ii) Economic	26.05%	

03. Please give reasons for shortfall, if any, between the estimated and actual benefit:
There is no short fall between the estimated and actual benefit.

F. MONITORING AND AUDITING

0.1 Monitoring:

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
(a) Ministry/Agency:			
1. Honorable Cabinet Minister Mr. Anisul Islam Mahmud, & State Minister Mr. Ltd. Col. (Retd.) Muhammad Nazrul Islam, Ministry of Water Resource.	06-11-2014	No Problem was identified during the execution of the Project.	All are Instructed to complete the project in time properly as per instruction of honorable Prime Minister.
2. D. Zafar Ahmed Khan, Senior Secretary, MoWR	21 June, 2016 & 08-09 January, 2017		
3. D. Mohammad Ali Khan, NDC, Additional Secretary, MoWR.	31-10-16 to 01-11-16 & 24-25 May, 2017.		
4. Mr. Ramesh Chandra Sen, Chairman, Standing Committee of MoWR.	05-06 November, 2016		
4. Md. Siddikur Rahman, Assistant Chief, Md. Jane Alam, Deputy Chief, Montu Kumar Biswas, Joint Chief, MoWR	02-03 March, 2017		
(b) IMED			
1. Mohammad Tanvir Akkas, Assistant Director, IMED.	02-03 March, 2017	No Problem was identified during the execution of the Project.	IMED recommended implementing the Project within the stipulated completion time properly.
2. Md. Barkatur Rahman, Assistant Director, IMED.	11-02-16 to 13-02-16		
3. Mr. Parimal Chandra Basu, Deputy Director, IMED	23-04-2015		
(c) Others : (Please specify)			
1. Md. Afjal Hossain, Addl. Director General, BWDB.	06-11-2014	No Problem was identified during the execution of the Project.	Instructed to complete the project in time.
2. Md. Abdul Latif Mia, Director General, BWDB.	22 January, 2016		
3. Md. Ismail Hossain, Director General, BWDB.			
3. Md. Jahangir Kabir, Director General, BWDB.	03-06-2016		
4. Md. Faridul Islam, Sr. Assistant Chief, Abdul Azim Chowdhury, Joint Chief, Irrigation, Water Resources & Rural Development Institutions Division of Planning Commission.	02-03 March, 2017		

0.2 Auditing during and after Implementation:

2.1 Internal Audit: No internal Audit was conducted.

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

Audit Period	Date of submission of Audit Report	Major findings/ objections	Whether objections resolved or not
1	2	3	4
2010-11	09-04-2012	7 nos objections are- 4 nos Tender irregularity; Low quality geo textile used; Not payment of royalty of earth; Outstanding VAT & IT.	1 no resolved & 6 nos. not resolved but submitted answer of objections for resolved.
2011-12	12-12-2012	3 nos objections are- Tender irregularity; 2nos incomplete work not compensated;	1 no resolved & 2 nos. not resolved but submitted answer of objections for resolved.
2012-13	03-12-2013	5 nos objections are- Additional bill payment; work done without budget; 2 nos Tender irregularity; Use of low quality geo.textile.	1 no resolved & 4 nos. not resolved but submitted answer of objections for resolved.
2013-14	07-12-2014	4 nos objections are- incomplete work not compensated; contract cost irregularity; Not payment of royalty of earth; payment of bill without load test.	Not resolved but submitted answer of objections for resolved.

G. DESCRIPTIVE REPORT

1. General Observations/Remarks of the Project on:

1.1 Background :

Tarail-Pachuria Integrated Water Resources Management Project area is located in the south-western region of Bangladesh, Gopalganj Sadar, Tongipara and Kotalipara Upazillas under Gopalganj District. The project falls under the vast floodplain of the Gorai-Modhumoti river and the Arial Khan river. The project is situated in between the latitude 22.53^0 to 23.02^0 N and longitude 89.48^0 to 89.58^0 E. Gross area of the project is 21300 ha. And net area 16019 ha. About 50% of the project gross area lies in Tungipara, while 31% & 19% of gross project area are dispersed in Gopalganj Sadar and Kotalipara Upazillas respectively. The entire project are divided into 6(six) polders (Polder Nos. 1, 2, 3, 4 5 & 6). Area of the project accordingly 6 (six) polders:

Polder No.	Gross Area (ha,)	Net Area (ha.)
Polder No. 1	3800	2374
Polder No. 2	8400	7625
Polder No. 3	3900	2587
Polder No. 4	2100	1452
Polder No. 5	2300	1476
Polder No. 6	1200	525
Total:	**21300**	**16019**

The project area disperse in the vast flood prone low lying area of Arial Khan-Madhumati river basin and numerous tributaries/distributaries'/channels originating from the Modhumati river flowing into the project area. Since the area is flood plain low lying flood havoc occurred in every year due to pre-monsoon early flood in constant rainfall flash flood. Monsoon flood water of Modhumati-Arial Khan river system carries huge quantity of silts/sands inside the polders by the inter-linked canals/waterways with the resultant reduction of carrying capacity in the perennial creeks. Consequently drainage system in the area were disrupted with the effect of long run water logging in the low lying area and cropping system was hampered due to delay in arable land preparation for cultivation as per crop calendar. Besides, dry season irrigation facilities in arable lands became disrupted for depth of adequate surface water in the khals/channels on account of siltation deposition in the bed level of perennial creeks. Frequent occurrence of pre-monsoon flash flood causes damaged of standing crops.

1.2 Justification/Adequacy :

In that circumstance, there had been a long standing social demand by the vulnerable people for early execution of the project in the area with a view to reducing the content of flood hazards, drainage congestion as well as providing dry season irrigation facilities.

In 1999, Feasibility study was done by Bangladesh Engineering and Technological Design Planning and Management Consultant Ltd, Associated Consulting Engineers (BD) Ltd., Surface Water Modelling Centre (SWMC). The project was formulated as per report, submitted by the Technical Committee constituted by the Board Technical Report June, 2009.

1.3 Objectives :

The objectives of the project was to provide safety of the flood control of project area, irrigation by re-excavation of khal & protect flood water & salinity by constructing drainage regulator, boatpass, pipe inlet etc., human lives, properties and improve economic activities by construction of protective works at vulnerable location along the bank of the Madhumoti, Baghiarkul & Ghaghor River.

However, the specific objective and targets of the projects are as follows:

- To provide fully flood control on the entire basin area comprising into 6 (six) polders convering total gross benefited area 21300 ha. of which net area is 16019 ha.
- To improve drainage facilities and provide irrigation facilities for increase agricultural production.
- To prevent intrusion of saline water and improved navigation facilities.
- To protect river erosion of the proposed project area.
- To achieve the national target by socio-economic developing of the project area.
- To alleviate poverty and generate employmemt opportunities.
- To remove water logging of the prject area.
- Accelerant agricultural production, fisheries and other income generating activities.
- Reducing the intensity of flood in order to reduce damage of crops, properties and lives.

1.4 Project revision with reasons :

Institute of Water Modeling (IWM) carried out a study "Mathematical modeling, survey and investigation "during the implementation of the project. It may be mentioned here that location and type of structures needs to be changed as per field requirements from the locations fixed by the IWM .This issue was discussed in the 3rd meeting of the Steering Committee held on 26.06.2013 in the MoWR chaired by the Senior Secretary, MoWR (minutes enclosed in Appendix-G). In the meeting a decision was taken to form a technical committee to overcome all the bottlenecks of the project and to submit the revised DPP by following the decision of technical committee and recommendations of the IWM. Accordingly a multi-professional technical committee was formed by the Board on 28.07.2013 comprising BWDB, IWM and CEGIS experts. They submitted a report. Accordingly a RDPP was prepared following the recommendations of technical committee and IWM study report and the RDPP costing to TK. 30930.50 lakhs was submitted in November 2013. In the mean time people of the project area raised some opinions regarding sluices and embankment. They wanted boat-pass in instead of sluice-gates. To resolve the matter and to reflect the people's opinions in project planning, as per instruction of the honorable Minister, MoWR and the Secretary, MoWR again a Technical committee has been formed by BWDB on 22-06-2014. The committee visited the project area in detail and assessed and every proposed component of the project and discussed with the concerned stake holders. Committee also had discussions with different govt agencies including DC, Gopalganj. Committee set on an exclusive meeting with the project beneficiaries, public representatives, local elites including the media (both print and electronics) on 29-10-2014 at Tungipara UZ complex under the chair of DC, Gopalganj.

Again a workshop was held at Tungipara UZ complex where honorable Minister, MoWR was in the chair, where representative of honorable Prime Minister, DC, Gopalganj, representatives of different govt. agencies, elected public representatives, political leaders, elites and media were present. After a long discussion majority came to the understanding that embankment height as has been designed should be 4.88 meter with view to full flood control. However, peoples demand of reducing the no of sluices/regulators, increase the no of boat pass in place or along with sluices/regulators, providing adequate no of ramps on embankments, approach roads over borrow pits, embankment cum road from Katakhali to Pachuria have been accepted and included in the committee report. The committee report has been accepted in a meeting in the MoWR by the honorable Minister under his chair on 07.01.2015 and instructed BWDB to submit the RDPP immediately. Accordingly the RDPP was re-casted as per recommendation and estimation of the technical committee.

The approved cost of the original project was Tk.28144.57 lakh and implementation period was from March, 2010 to June, 2013. Afterwards, completion time of the project has been extended by 2 years up to June, 2016 by the competent authority. Cost of re-casted (January, 2015) RDPP is Tk. 35208.02 lakh as per committee estimation which is estimated without increased land price. Considering land price about 5000.00 lakh instead of Taka 1553.57 lakh total cost stood at Tk.38654.45 lakh. This re-casted RDPP of cost 38654.45 lakh has been submitted in January 2015.

A scruitinization meeting was held on the above RDPP. In the meeting it was discussed that, total number of Sluices/Boat pass proposed in RDPP as per recommendation of technical committee is 69 nos in place of 41 nos. On the other had Honorable Prime minister passed instruction not to place any structure in the khals/Channels, it is also discussed in the meeting that some stake holders and people representatives do not want structures, since it reduces the opportunity of navigation, then the chair (the secretary, ministry of Water Resources) advised to discuss the matter with the honorable minister. The Matter was discussed with the honorable minister on 07-05-2015 in presence of the Secretary, the Joint chief, ministry of water resources. The Director General and Addl ADG (West region) of BWDB, Chief Engr, Superintending Engr and PD of the project were present in the discussion. After a threadbare discussion it was decided that in this situation number of sluices should be minimum, that is, number of sluices/Boat pass should not increase, only those which have been completed/ under construction and can be certainly constructed without public disturbance should remain in RDPP others should be dropped from the project, in future if the sluices seem to be extreme necessity and stake holders demand anonymously then it can be constructed under a new future project. After discussion it was decided that the total number of sluices and Boat pass may be 39. It was also discussed and decided that the project should not linger for an uncertain period. The projects steering committee 6th meeting held on same day took a similar decision. Accordingly the RDPP has been re-casted again. The RDPP re-casted as on june, 2015 has been submitted for kind approval. A rationalization meeting was held on 26-07-2015 in the MoWR under the chair of the Secretary, MoWR. As per recommendation/decision (Appendix-L) of that meeting the re-casted RDPP of cost 32305.84 lakh has been submitted in August 2015.

A PEC meeting was held on 17-01-2016 about the above RDPP in the Planning Commission under the chair of the Member, Irrigation, Water Resource and Rural Institution Division. As per recommendation/decision (Appendix-M) of that meeting the RDPP has been re-casted and submitted now. Cost of the RDPP finally stands at TK. 32201.20 lakh which is 14.41% increase of the original DPP.

Second time the main features of the revision of the project are to re-adjustment of the cost of the items included in the project without changing the total cost tk. 32201.20 Lakh. After approval of 1st RDPP Government Order (GO) had been issued by planning commission through memo no.-20.00.0000.411.14.21.16-352, dated: 14-08-2016. Till then land acquisition process was not completed due to its inherent complexity. Therefore cost of land was not being able to figure out exactly. Since around 40% of land has been already acquired with approved land cost. So remaining land cost will be assessed provisionally by the deputy commissioner of Gopalganj. This land cost will be increased beyond the previous approved cost Tk. 3364.00 lac taka. To increase the land cost as per recommendation of DC Inter-Item Cost Adjustment of RDPP (1st Revised).

After 1st revision only contract price of work has been included into Inter-Item Cost Adjustment of RDPP (1st Revised). So cost of work has been decreased as contract is less than the estimated cost. These savings amount has been adjusted into land price. Therefore no additional cost has been increased in Inter-Item Cost Adjustment of RDPP (1st Revised). Inter-Item Cost Adjustment of RDPP (1st Revised) costing Tk. 32201.20 lakh.

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

Bangladesh is a riverine country and bank line erosion of different rivers has been a recurrent effect. River bank erosion in alluvial lands of Bangladesh is a complex and dynamic thrust of nature due to strong onrush of water and major variation in between normal water flow and surges of inflow during monsoon & post-monsoon period in each year. The monsoon discharge of the major rivers is so large that there is recurrence of floods every year. Sometimes it become very severe and causes immense damages impacted by occurrence of devastating river erosion. This has significant social and economic impacts. The loss of land, crop and property has led to landlessness and impoverishment of thousands of dwellers living within bank lines. The belligerence of river bank erosion has caused for landlessness and pauperization of peoples living within riverside. In this backdrop, there have been growing concerns now for reassessment of the economic and socio-political benefits of protecting important locations, infrastructures, valuable properties and towns, growth centres etc. The issue has been duly emphasized in the National Town Plan. The National Water Policy emphasized for protection of strategic geographic locations & important economic zones from devastating erosions of different mighty rivers. Also National Water Management Plan emphasized on the development and management of water resources with appropriate measures for river erosion mitigation for enabling environment.

In this context, there have been a growing concern and reassessment of the economic and socio-political benefits of protecting important towns, infrastructure, hats and bazaars as well as agricultural land. Thus there has been a growing need for development of water sector and prioritized strategic locations of river banks have been stressed for phased implementation for execution of river bank protection programmed at the apex level.

The present Government has given utmost importance on increasing agricultural production for overall socio-economic development. Due importance has also been given for increasing fisheries and livestock production. The project objective includes maximum growth, increasing sector efficiency; inter sector linkages, planned utilization and efficient management of water resources.

As an action plan under said strategies & national development goals, completed FCDI work along with bank protective project had been formulated.

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

- **Project Identification** :
  There had been a long standing social demand by the vulnerable people for early execution of the project in the area with a view to reducing the content of flood hazards, drainage congestion as well as providing dry season irrigation facilities.
  In 1999, Feasibility study was done by Bangladesh Engineering and Technological Design Planning and Management Consultant Ltd, Associated Consulting Engineers (BD) Ltd., Surface Water Modeling Centre (SWMC).

- **Project Preparation** :
  The project was formulated as per report, submitted by the Technical Committee constituted by the Board Technical Report June, 2009. The project prepared on the basis to provide safety of the flood control of project area, irrigation by re-excavation of khal & protect flood water & salinity by constructing drainage regulator, boat pass, pipe inlet etc., human lives, and properties and improve economic activities by construction of protective works at vulnerable location along the bank of the Madhumoti, Baghiarkul & Ghaghor River. Also beautification work at Tungipara Khal & Tarail-Katakhali Inspection Dyke constructed for real needed. For these reason Tarail-Pachuria Flood Control, Drainage and Irrigation Project (2nd Phase) was launched.

- **Appraisal** : The project was appraisal by planning commission.
- **Credit Negotiation** : Not applicable
- **Credit Agreement** : Not applicable
- **Credit Effectiveness** : Not applicable
- **Loan Disbursement** : Not applicable
- **Loan Conditionality** : Not applicable
- **Project Approval** : The project was approved on 04-05-2010 & subsequent revision was approved on 14-08-2016 & Inter-Item Cost Adjustment was approved on 14-06-2017.
- **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:

The stakeholders are directly taking advantages of the created facilities of the project.

4.3 O&M programmed of the project:
Post Project recurrent O&M works will be arranged from the regular O&M allocation.

4.4 **Impact of the Project -**

4.4.1 **Direct:**

- Full flood control on the entire basin area of 21300 hectare of which net area is 16019 hectare.
- Drainage & Irrigation facility by re-excavation of khal area is 16019 hectare.
- Protect flood water & saline water by constructing water control structure.
- To improve drainage facilities and provide irrigation facilities for increase agricultural production.
- Protection of river bank erosion 5.455 km.
- Beautification of Tungipara khal 1.180 km.
- Construction of Embankment 100.305 km & Inspection Dyke 4.350 km.

4.4.2 **Indirect:**

- Socio-economic development of the project area.
- To alleviate poverty and generate employment opportunities.
- Accelerant agricultural production, fisheries and other income generating activities.
- Reducing the intensity of flood in order to reduce damage of crops, properties and lives.
- Safety of public and government owned assets and natural resources.

4.5 **Transfer of Technology and Institutional Building through the project:**

Not Applicable

4.6 **Employment generation through the project:**

Employment generation for skilled/unskilled during construction period is about 3.50 lakh man-days.

4.7 **Possibility of Self employment:**

There are possibilities of self employment.

4.8 **Possibility of women-employment opportunity:**

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

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

Yes.

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

Protecting the river bank erosion, construction of flood control embankment & water control structure; various infrastructures are achieved the project goal as well as socio-economic development by reducing poverty by employment opportunity in the locality.

4.11 **Impact on environment:**

Environmental enhancement is achieved through the implementation of the Project. Bank erosion hazards of environment are eradicated in order to ensure drainage, irrigation facilities & flood control by constructing embankment, water control structure & re-excavation khal.

4.12 **Sustainability of the project:**

The project is sustainable but requires periodic maintenance.

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

The project fulfilled the following benefits in compatible strategic goal i.e., a) Reduction of vulnerability to water related disaster like as flood, salinity, drought et.; b) Manage erosion of major rivers; c) Ensure drainage & irrigation facilities; d) Flood control embankment construction & Inspection road construction; e) Beautification work at Tungipara Khal near father of nation's grave.

1) The project ensures immovable properties of total worth of Tk. 129500.00 lac.
2) It generated employment for skilled/unskilled during construction period and also in annual O&M phase in project performance. Also better employment access in business tertiary sectors is enhanced.
3) Natural security against river bank erosion is resorted.

4.14 **Opinion of the public representatives, local elite, local administration, teachers, Religious leaders, women's representatives etc.**

Positive remarks regarding the project.

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

Not Applicable

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

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

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

6. Remarks & Recommendations of the Project Director:

The Project area is situated at Gopalgonj Sadar, Tungipara and Kotalipara Upazila in Gopalgonj District. The Project Falls under the vast floodplain of the Gorai-Modhumoti River and the Arial Khan River. Gross area of the Project is 21300 hactare and net area 16019 ha. About 50% of the Project gross area lies in Tongipara, while 31% & 19% of gross project area are dispreased in Gopalgnj Sadar & Kotalipara Upazilas respectively. After the successful implementation of this Project "Tarial-Pachuria Flood Control, Drainage & Irriagation Project (2nd Phase) 1st revised" has been protected entire basin comprising of five polders from flood. Drainage facilities and irrigation facilities for increased agricultural production has been improved and intrusion of saline water has been prevented. Navigation facilities have been improved. The river bank erosion has been mitigated. The national target by socio-economic development of the project area has been improved.

Poverty has been alleviated upto a satisfactory level. Scope of new jobs & work has been creaeted. Water logging of the project area has been removed. Agricultural production, Fishing & other income generating activities have been accelerated. The project will also contribute to attain national self-sufficient in food grains which coincides with the major components of Sustainable Development Goal (SDG). Proper monitoring and regular maintenance of the flood control embankment, hydrolyc structures, revetment works and other necessary components should be continued to ensure the sustainability of the project. Otherwise the benefit of the project may be hampered

19.09.17

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

Date 19.09.17

20/9/17

Signature and seal of the Project Director

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

7. Remarks/Comments of Agency Head

The main objective of this project is providing full flood protec-tion control on the entire basin of six polders (Polder No.-1,2,3,4,5 & 6) in the project area has been successfully accomplish by the implementation of this project. Due to drainage improvemen 21300 Ha area has become fully flood free. Due to protection against saline water intrusion, 16019 Ha areas have got irrigation facility. Moreover, the implemented 5.455 km of river-bank protection work have made safeguard to 100000 nos private & public establishments from river erosion. As result, incremental food grain production has been raised to 78898 Metric Ton. Beautification on 2.180 km of Tungipara Khal has added tourism value to the project area.

Date: .....

Signature and Seal

22/9/2017

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

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

Date: .....

Signature and Seal