

# BANGLADESH WATER DEVELOPMENT BOARD



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

**Name of the Project: Jobaibeel Flood Control, Drainage & Irrigation Project in Upazilla Shapahar and Porsha under Naogaon District (1st Revised).**

**PROJECT PERIOD: SEPTEMBER 2016 TO JUNE 2020.**

**DIVISION : NAOGAON O&M DIVISION, BWDB, NAOGAON.**

**CIRCLE : RAJSHAHI O & M CIRCLE, BWDB, RAJSHAHI.**

**ZONE : NORTH-WESTERN ZONE, BWDB, RAJSHAHI.**

**Government of the People's Republic of Bangladesh**  
**Ministry of Planning**  
**Implementation Monitoring and Evaluation Department.**

**PROJECT COMPLETION REPORT: IMED 04/2003 (REVISED)**

**A. PROJECT DESCRIPTION:**

**01. Name of Project** : Jobaibeel Flood Control, Drainage & Irrigation Project in Upazilla Shapahar and Porsha under Naogaon District (1st Revised).

**02. Administrative Ministry/ Division** : Ministry of Water Resources

**03. Executing Agency** : Bangladesh Water Development Board.

**04. Location of the Project** : Upazila:Shapahar & Porsha, District:Naogaon.

**05. Objectives of the Project :**

- ❖ To increase cropping intensity from 132.14% to 197.32% through improving drainage system & storage capacity of the existing Jobaibeel Khal.
- ❖ To increase storage/drainage capacity of Jobaibeel Khal.
- ❖ To provide irrigation facilities of about 11200 hac (Net) irrigable area of Jobaibeel & adjoining area by constructing 14-vent regulator.
- ❖ To augment local food security & social development by increasing agricultural production.
- ❖ To develop Communication.
- ❖ To improve the overall Socio-economic condition.

**06. Estimated Cost:**

(In Lakh Taka)

	Original	Latest Revised (1 <sup>st</sup> )
a) Total	4195.75	4070.08
b) Taka	4195.75	4070.08
c) Foreign Currency	-	-
d) Project Aid	-	-
e) RPA	-	-

**07. Date of Approval :**

PCP	PP
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a) Original : 15-12-2016

b) Latest Revised : 18-03-2019

**08. Implementation period :**

	Date of Commencement	Date of Completion
a) Original	September, 2016	June, 2019.
b) Latest Revised (1 <sup>st</sup> )	September, 2016	June, 2020
c) Actual	September, 2016	June, 2020

**09. Financial Agreement (source wise):**

**9.1 Status of Loan / Grant:**

**a) Foreign Financing:**

Source(s)	Currency as per Agreement	Amount in US\$ (Million)	Nature (Loan/Grant Supplier's credit)	Date of Agreement	Date of Effectiveness	Date of Closing	
						7	8
1	2	3	4	5	6	7	8

..... N. A. ....

**b) GOB:**

(In Lakh Taka)

Total Amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
4070.08	-	4070.08	-

**9.2 Utilization of Project Aid: (Source wise)**

(In Million)

	Total Amount		Actual Expenditure		Unutilized Amount	
	In US \$	In Local Currency	IN US \$	In Local Currency	In US \$	In Local Currency
1	2	3	4	5	6	7

..... N/A. ....

**9.3 Reimbursable Project Aid (RPA)**

(In Lakh Taka)

RPA Amount		Amount Spent	Amount claimed	Amount Reimbursed	Remarks.
As Per DPP	As per Agreement				
1	2	3	4	5	6

..... N/A. ....

**B. IMPLEMENTATION POSITION**

**01. Implementation Period :**

Implementation Period as per DPP		Actual Implementation Period	Time Over Run (% of Original Implementation Period)	Remarks
Original	Latest Revised			
1	2	3	4	5
September/2016 to June/2019	September/2016 to June/2020	September/2016 to June/2020	35.29%	The expected physical and financial progress of the project could not be achieved due to various reasons like land aquisition problem, work site being inundated in water for a long period of the monsoon due to low land project area, tender invitation is delayed due to delayed approval of working design etc. Considering the overall condition, for proper implementation of the project project duration needed to be extended.

**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	4195.75	4070.08	3869.90	(-) 7.77%	Did not over-run.
Taka	4195.75	4070.08	3869.90		
PA	-	-	-		

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

Sanctioned strength as per PP	Manpower employed during execution	Status of the existing Manpower			Manpower Employed	
		Manpower requirement for O&M as per PP	existing Manpower for O&M	Others	Male	Female
1	2	3	4	5	6	7
Officer(s)						
Staff(s)						
Total						

..... Nil .....

**04. Training of project Personnel (Foreign/Local):**No Provision of any short of training in this Project.

Field of Training /Study tour/work shop/ Seminar etc.	Provision as per PP		Actual		Remarks.
	Number of Person	Man- months	Number of Person	Man months	
1	2	3	4	5	6

a) Foreign ..... Nil .....

b) Local ..... Nil .....

**05. Component wise Progress (As per Latest approved DPP):**

( In Lakh Taka )

Items of work (As per PP)	Unit	Target (as per DPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
<b>Revenue Component (A):</b>						
Petrol and Lubricant	item	6.00	1	5.97	1	Did not deviate.
Printing & Publication	item	4.00	1	3.99	1	
Office Stationery, Seal & Stamps	item	3.50	1	3.49	1	
Fee for Initial Environmental Examination (IEE), Environmental Impact Assesment (EIA) & Environmental Clearence	item	0.00	1	0.00	-	
Honorium for PSC, PIC, TEC etc.	item	6.00	1	5.62	1	
Mid-Term Evaluation	item	8.00	1	7.14	1	
Survey & Investigation	item	6.00	1	5.98	1	
Computer Accessories	item	3.50	1	1.49	1	
Repair & Maintenance of existing vehicles (Jeep 2 Nos. & Motorcycle 2 Nos )	item	5.00	1	4.99	1	
<b>Sub Total (A) :</b>		<b>42.00</b>		<b>38.67</b>		
<b>Capital Component (B):</b>						
Purchase/Supply of Jeep from Progoti (1850 C.C.,5 Doors)	No	58.00	1	54.31	1	Did not deviate.
Motorcycle (125 C.C.).	Nos	4.00	2	3.67	2	
Leveling Instrument with stand & Staff	Set	1.50	1	1.49	1	
Laptop with Laser Printer & Accessories	Set	1.50	1	0.79	1	
Photocopier	No	1.00	1	0.99	1	
Afforestation	item	10.00	1	9.98	1	
Land Acquisition with stamps & registration fee (3.51 ha)	Ha.	216.52	3.51	202.35	3.51	
Construction of 14-Vent Regulator at Hapania	No	2106.72	1	2055.80	1	
Re-excavation of Jabaibeel Khal (547951.405 cum)	km.	593.40	17.550	526.91	17.550	
Construction of Inlet 10 Nos at various location)	Nos	34.37	10	33.27	10	
Re-sectioning of Embankment (10.00 km)	Km.	661.24	10.00	605.01	10.00	
Slope protection work at approach embankment (Both Sides) of Hapania Regulator in Between from Km. 13.800 to Km. 14.230 = (400+400) = 800 meter	Meter	336.83	800	336.66	800	
<b>Sub Total (B) :</b>		<b>4025.08</b>		<b>3831.23</b>		
<b>Physical Contingency (C)</b>	L.S	1.00				
<b>Financial Contingency (D)</b>	L.S	2.00				
<b>Total (A+B+C+D) :</b>		<b>4070.08</b>	<b>100.00%</b>	<b>3869.90</b>	<b>98.65%</b>	

**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
Mir. Mosharrof Hossain Superintending Engineer 50000-71200	Full		Yes	17/05/2015	29/07/2018	
Muhammad Amirul Haq Bhuiya Superintending Engineer 50000-71200	Full		Yes	29/07/2018	11/03/2020	
Md. Mukhlesur Rahman Superintending Engineer 50000-71200	Full		Yes	11/03/2020	till to date	

**07. Procurement of Transport (in nos.):**

Type of Transport	Number as per DPP	Procured with date	Transferred to Transport Pool with date	Transferred to O&M with date	Condemned/damaged with date	Remarks.
1	2	3	4	5	6	7
Car						
Jeep	1 no	18/12/2018	-	Naogaon O&M Division, BWDB, Naogaon 01/07/2020	-	Being used by Executive Engineer, Naogaon O&M Division, BWDB, Naogaon for future inspection & maintenance of the project.
Minibus						
Bus						
Pick-up						
Truck						
Motor Cycle	2 nos	27/08/2017 20/06/2019	-	Naogaon O&M Division, BWDB, Naogaon 01/07/2020	-	Being used by Sub-Assistant Engineer/Section Officer, Naogaon O&M Section-7/8/9, BWDB, Naogaon for future inspection & maintenance of the project.
By-Cycle						
Speed Boat						
Speed Boat						
Launch						
Other with name						

08. Procurement of Goods, Works and Consultancy Service.

08.1. Goods & Works of the Project costing above Tk. 200.00 lakh and Consultancy above Tk. 100.00 lakh.

Description of procurement (goods/work/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 DPP	Contract value	Invitation date	Contract signing/L.C. opening date	As per contract	Actual
1	2	3	4	5	6	7
Construction of 10 Nos Inlet at various place on Jabaibel flood Control Drainage & Irrigation Project in Upazilla Sapahar and Porsa Under Naogaon O&M Division BWDB Naogaon FY 2017-2018.	Original-177.24 1 <sup>st</sup> Revised 34.37	Original-34.36	25/10/2017	06/02/2018	15/03/2019	15/03/2019
Construction of 14-vent 1.80m x 2.25m Drainage Regulator on Telekhari Khal at Hapania in c/w Jabaibel FCDI Project in Upazila Sapahar and Porsha under Naogaon District under Naogaon O&M Division, BWDB, Naogaon during the FY 2017-18 & 2018-19.	Original-1897.04 1 <sup>st</sup> Revised 2106.72	Original-1745.93 1 <sup>st</sup> Revised-1889.85	22/02/2018	11/04/2018	30/03/2020	30/03/2020
Re-excavation of Jabai Beel Khal from Km. 0.450 to km. 18.000 = 17550.00 m including Jabaibel in c/w Jabaibel FCDI Project in Upazila Shapahar & Porsha under Naogaon District under Naogaon O&M Division, BWDB, Naogaon during the FY 2017-2018 & 2018-2019.	Original-820.97 1 <sup>st</sup> Revised 593.40	Original-562.02 1 <sup>st</sup> Revised-590.22	18/07/2018	07/10/2018	06/09/2019	06/09/2019
Re-Sectioning of Embankment From km 3.354 to km 3.573 = 219.00 m, From km 3.846 to km 4.419 = 573.00 m, From km 6.404 to km 6.565 = 161.00 m, From km 12.497 to km 13.825 = 1328.00 m & From km 14.315 to km 17.465 = 3150.00 m Total ( 219.00 + 573.00 + 161.00 + 1328.00 + 3150.00 ) = 5431.00 m in c/w Jabaibel FCDI Project in Upazila Sapahar & Porsha under Naogaon District under Naogaon O&M Division, BWDB, Naogaon during the FY 2017-18 & 2018-19.	Original-196.52 1 <sup>st</sup> Revised 356.54	Original-325.44 1 <sup>st</sup> Revised-351.96	11/03/2018	08/05/2018	20/09/2019	20/09/2019
Slope Protection Work at approach Embankment both side of Hapania-regulator in between from km. 13.800 to km. 14.230 = (400 + 400) = 800.00m in C/W Jabai beel FCDI project in Upazila-Sapahar & Porsha under Naogaon district under Naogaon O & M Division BWDB Naogaon during the FY-2018-19	Original-562.44 1 <sup>st</sup> Revised 336.83	Original-336.82	25/07/2018	19/09/2018	11/05/2020	11/05/2020
Re-Sectioning Embankment In-between km 0.000 to km 12.497 = 4569.00 m in c/w Jabaibel FCDI Project in Upazila Sapahar & Porsha under Naogaon District under Naogaon O&M Division, BWDB, Naogaon during the FY 2018-19 & 2019-20.	Original-165.32 1 <sup>st</sup> Revised 304.70	Original-274.06 1 <sup>st</sup> Revised-294.02	14/05/2019	03/09/2019	25/06/2020	25/06/2020
Manufacturing, Supplying and Installation of 14 (Fourteen) Nos. Lift Gate ( Size : 1.800 m X 2.325 m) with 14 (Fourteen) sets Pedestal type Hoisting Device & 14 (Fourteen) Nos. Electric type Worm Gear Box including epoxy painting for Telekhari Khal Regulator at Hapania of Naogaon O&M Division, BWDB, Naogaon under Central Workshop Division, BWDB, Tejgaon, Dhaka.	214.02	Original-213.91	12/05/2019	18/06/2019	30/06/2020	30/06/2020

**08.2. Use of Project Consultant (s) (Foreign / Local):**No provision of deploying consultant in this project.

Name of the field	Approved man month		Actual man month utilized	Remarks
	As per PP	As per contract.		
1	2	3	4	5

a) Foreign ..... Nil .....

b) Local ..... Nil .....

**09. Construction / Erection / Installation Tools & Equipment:**

Description of items	Quantity (As perDPP)	Quantity procured with date	Transferred to O&M with date	Deposed off as per rule with date	Balance	Remarks
1	2	3	4	5	6	7

..... N / A. ....

**C. FINANCIAL AND PHYSICAL PROGRAMME:**

**11. (a) Original and revised schedule as per DPP.**

(In Lakh Taka)

Financial year	Financial Provision & Physical target as per original DPP				Financial Provision & Physical target as per latest revised DPP			
	Total	Taka	PA	Physical %	Total	Taka	PA.	Physical %
1	2	3	4	5	6	7	8	9
2016-17	1033.85	1033.85	-	24.64%	13.47	13.47	-	0.33%
2017-18	1691.60	1691.60	-	40.32%	114.98	114.98	-	2.83 %
2018-19	1470.30	1470.30	-	35.04%	2771.48	2771.48	-	68.09 %
2019-20	0.00	0.00	-	0.00%	1170.15	1170.15	-	28.75 %
<b>Total</b>	<b>4195.75</b>	<b>4195.75</b>	<b>-</b>	<b>100.00%</b>	<b>4070.08</b>	<b>4070.08</b>	<b>-</b>	<b>100.00%</b>

**11. (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
2016-17	100.00	100.00	-	2.38 %	50.00	13.46	13.46	-	0.32%
2017-18	500.00	500.00	-	11.92 %	500.00	112.96	112.96	-	4.74%
2018-19	2400.00	2400.00	-	50.90 %	2396.50	2382.20	2382.20	-	60.14%
2019-20	1440.00	1440.00	-	34.80%	1439.97	1361.28	1361.28	-	33.45%
<b>Total</b>	<b>4440.00</b>	<b>4440.00</b>	<b>-</b>	<b>100.00%</b>	<b>4386.47</b>	<b>3869.90</b>	<b>3869.90</b>	<b>-</b>	<b>98.65%</b>



**D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:**

Objective as per DPP	Actual achievement	Reasons for shortfall, if any
(a) To increase cropping intensity from 132.14% to 197.32% through improving drainage system & storage capacity of the existing Jobaibeel Khal.	Cropping intensity has improved in project area.	<b>No shortfall</b>
(b) To increase storage/drainage capacity of Jobaibeel Khal.	Construction of 14-vent regulator has increased water storage capacity of Jobaibeel. Re-excavation of Jobaibeel khal has facilitated the drainage system.	
(c) To provide irrigation facilities of about 11200 hac (Net) irrigable area of Jobaibeel & adjoining area by constructing 14-vent regulator.	Supplementary irrigation facilities have been extended to larger area.	
(d) To augment local food security & social development by increasing agricultural production.	Objective has been achieved by the implementation of the project.	
(e) To develop Communication.	Objective has been achieved by the implementation of the project.	
(f) To improve the overall Socio-economic condition.	Objective has been achieved by the implementation of the project.	

**E. BENEFIT ANALYSIS :**

**01. Annual Out-put:**

Items of out-put	Unit	Estimated quantity expected at full capacity	Actual quantity of out-puts during the 1 <sup>st</sup> year of operation at full capacity (or during real production for newly completed project)
1	2	3	4
Protection of Agricultural Land	Ha	250.00	250.00
Protection of Fruit Garden	Ha	30.00	30.00
Protection of Homestead	Nos.	200	200
Protection of Flood Embankment	KM	3.00	3.00
Flood Damage of Agricultural Crops	MT	2500.00	2500.00

**02. Cost / Benefit:**

Item	Estimated	Actual
(1) Benefit cost of the project		It will be evaluated later by concern directorate of BWDB & IMED.
(i) Financial	1.60:1.00	
(ii) Economic	2.74:1.00	
(2) Internal rate of return		
(i) Financial	20.76%	
(ii) Economic	33.80%	

(3) Please give reason for shortfall, if any, between the estimated and actual benefit: No Shortfall.

## F. MONITORING AND AUDITING.

### 01. Monitoring:

Name & Designation of the inspecting official	Date of inspection	Identified Problems	Recommendations
1	2	3	4
<b>(a) Ministry / Agency :</b>			
Mahmudul Islam Additional Secretary, MoWR.	10/07/20	Not found	
Md. Yousuf Additional Secretary, MoWR.	09/11/18	Not found	
Md. Mahfuzur Rahman Additional Director General (Planning), BWDB.	21/05/16	Not found	
Md. Nayab Ali Mondal Joint Secretary, MoWR.	12/05/18	Not found	
Abdul Azim Chowdhury Joint Chief (Irrigation), Planning Commission	13/12/19	Not found	
Chowdhury Nazmul Alam Chief Engineer, Directorate of Mechanical Equipment, BWDB.	13/06/19	Not found	
Md. Nurul Amin Superintending Engineer, Processing Section, BWDB.	13/12/19	Not found	
Md. Romjan Ali Pramanik Superintending Engineer, Design Circle-6 BWDB.	01/03/20	Not found	
Md. Mominur Rahman Deputy Secretary, MoWR	10/01/20	Not found	
Md. Jan-E-Alam Deputy Chief, MoWR.	13/12/19	Not found	
Umme Fatima Romana Afroj Executive Engineer Design Circle-6 BWDB.	28/12/17	Not found	
Md. Mamunuzzaman Executive Engineer (Mecha) Workshop Division, BWDB.	13/06/19	Not found	
Abu Usuf Mohammad Rasal Senior Assistant Chief, MoWR.	Several times	Not found	
Nazmul Islam Bhuiyan Senior Assistant Secretary, MoWR.	13/12/19	Not found	
Mohammad Ali Chief Engineer, North-Western Zone, BWDB.	Several times	Not found	
A. K. M. Shafiqul Haque Chief Engineer, North-Western Zone, BWDB.	Several times	Not found	
Mir. Mosharrof Hossain PD & Superintending Engineer, Rajshahi O&M Circle, BWDB, Rajshahi.	Several times	Not found	
Muhammad Amirul Haq Bhuiya PD& Superintending Engineer, Rajshahi O&M Circle, BWDB, Rajshahi.	Several times	Not found	
Md. Mukhlesur Rahman PD& Superintending Engineer, Rajshahi O&M Circle, BWDB, Rajshahi.	Several times	Not found	
Nasrin Razia Akhter Jahan Executive Engineer North-Western Zone, BWDB.	Several times	Not found	
<b>(b) IMED :</b>			
Upama Akter Deputy-Director, IMED.	20/12/19	Not found	
Lasmi Chakma AD, IMED.	19/09/18	Not found	
<b>(c) Others (Please specify) :</b>			
Sadhan Chandra Majumder Honorable Food Minister, People's Republic of Bangladesh.	20/07/19	Not found	

## 02. Auditing during and after Implementation:

### 2.1. Internal Audit: Not Conducted.

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

### 2.2. External Audit:

Audit Period	Date of submission of Audit Report.	Major findings/objections	Whether objection resolved or not.
1	2	3	4
2016-17	22/05/2018	No Objections	N/A
2017-18	25/07/2019	No Objections	N/A
2018-19	Not Conducted	-	-
2019-20	Yet to be conducted	-	-

## G. DESCRIPTIVE REPORT

### General Observations/Remarks of the Project on:

#### 1.1 Background

The project named "Jabaibeel flood Control, Drainage & Irrigation project in upazila- Sapahar & Porsa under Naogaon District" is located on the left bank of the border river Punarbhaba and Jabaibeel area. The project is lying in the North-west of Naogaon district head quarter and 80 km away from Naogaon Sadar. The project area (gross) is 14500 ha & irrigable (net) area is 11200 ha.

During the FY 2004-05 "Construction of Flood Embankment along the left bank of Border River Punarbhaba Sub-project" was approved, whose cost was Tk. 780 lac. During the FY 2004-05 to 2007-08, 14.00 km embankment, a weir & some inlets construction works were only done under that project. The main components construction of 14-vent regulator, connecting Jobaibeel khal re-excavation & river bank protection works could not be done due to exceeding PP cost as well as BSF obstruction. Only river bank protection work along the left bank of Border River Punarbhaba was not possible to complete due to BSF obstruction, but construction of 14-vent regulator, connecting Jabaibeel Khal re-excavation was not possible to complete due to exceeding DPP cost.

Recently, BWDB has taken a project named "Border River Bank Protection and Development project (Phase-2)" to project land of Bangladesh part from river bank erosion of all border river in Bangladesh centrally. The bank protective works along the border river is included in the project "Border River Bank Protection and Development project (Phase-2)" as per JRC recommendation & agreement. The implementation period of the project is from FY 2017-18 to FY 2020-21.

That is why, bank protective works along the border river is not included in this project. Only (400+400)=800m slope protection work at approach embankment (Both Side) of 14-vent hapania regulator is included in this DPP. The main components of the project are construction of 14-vent Regulator, Inlet/Outlet, connecting 20 km Jabaibeel Khal re-excavation, (400+400)=800m Slope protection work at approach embankment (Both Side) & 14 Km flood embankment re-sectioning works. The project is lying inside of Bangladesh about 3.00 KM away from Bangladesh-India Border line. So, there is no chances/options of BSF obstruction for implementation of the project. After implementation of the project, crop production is expected to increase through improved drainage system and storage capacity of the existing Jabaibeel Khal and project area will be protected from flood. Food security, social-development, communication development and overall socio-economic development will be ensured.

### **1.2. Justification:**

Bangladesh is an alluvial riverine country. Sedimentation of rivers/khals is a common phenomenon. This has significant social & economic impacts. Reduction of drainage capacity increases water logging, loss of fish habitat, decrease of irrigation water. In this context, there have been growing concerns for re-excavation of proposed khals, construction of intlets, Slope protection works etc. The present project was executed on an emergency basis. The local Honourable Member of Parliament (MP), Local people and people's representatives were demanding for immediate re-excavation of the proposed khals and for impilmentation of other components of the project.

### **1.3. Objectives:**

The main objectives of the project are:

- ❖ To increase cropping intensity from 132.14% to 197.32% through improving drainage system & storage capacity of the existing Jobaibeel Khal.
- ❖ To increase storage/drainage capacity of Jobaibeel Khal.
- ❖ To provide irrigation facilities of about 11200 hac (Net) irrigable area of Jobaibeel & adjoining area by constructing 14-vent regulator.
- ❖ To augment local food security & social development by increasing agricultural production.
- ❖ To develop Communication.
- ❖ To improve the overall Socio-economic condition.

#### **1.4. Project revision with reasons:**

The project named “Jobaibeel Flood Control, Drainage & Irrigation Project in Upazilla Shapahar and Porsha under Naogaon District” has been approved by Hon’ble Minister, Ministry of Planning. The estimated cost of the original approved DPP was Tk. 4195.75 lakh. The project has been revised due to the reason mentioned below:

##### **(a) Construction of 14-Vent Regulator (1 No) :**

The Project has one no Package of Regulator construction work as Package No. JB-2. As per approved DPP, the Regulator has 14 nos vent, which approved cost was 1897.04 lakh and revised cost was 2106.72 lakh. It is mentioned that the Civil Part of the Regulator work was executed by Contractor but Mechanical Part was done by Mechanical Division, BWDB. This increased value =  $(2106.72 - 1897.04) =$  Tk. 209.68 lakh was adjusted from the savings amount from another the components.

##### **(b) Re-excavation of Jabaibeel khal (20.00 km):**

The project has 01 no. Package for Re-excavation of Jabaibeel khal. The package No. was JB-3. As per approved DPP, total length of the Khal in this Package was 20.00 km and cost was 820.97 lakh. During the DPP approving period, 1.00 km khal was excavated by BMDA and 1.45 km. khal excavation was not possible due to adjacent Boarder Line. So, the 2.45 km khal was not required to re-excavate by BWDB. But Re-excavation of the remaining 17.55 km khal was tendered and awarded to the selected contractor, which value was 593.40 lakh.

##### **(c) Re-sectioning of Embankment (14.00 km):**

As per approved DPP, total length of Re-sectioning of Embankment was 14.00 km, which earth volume was 146086.95 cum and cost was 361.85 lakh. The length of embankment was about 2.00 km. had been washed out and 5 nos. breach of embankment has been occurred by tremendous flood of 2017. To protect the project area the most vulnerable portion of embankment (Length = 5.431 km and earth volume = 217599.45 cum) required re-sectioning . The tender of that work was awarded to the lowest responsive renderer, whose contract value was 325.44 lakh. Among the remaining length 4.00 km was paved by LGED. This 4.00 km length was not possible to resection and also were not required. So the net remaining embankment length =  $(14.00 - 5.431 - 4.000) \text{ km} = 4.569 \text{ km}$  (Package no: JB-7) was tendered to full fill the project objective. For this reason, an additional package was required to resection the net remaining part of the embankment. As a result, the cost of the embankment to resection 10.00 km was Tk. 661.24 lakh in place of Tk. 361.85 lakh. This increased value =  $(661.24 - 361.85) =$  Tk. 299.39 lakh was adjusted from the savings amount from another the components. This matter was discussed in 1<sup>st</sup> PSC, 2<sup>nd</sup> PSC, Revised DPP Justification & DPEC meeting held at MoWR. After details discussion, the PSC & DPEC had recommended to revise the DPP.

##### **(d) Construction of Inlet (10 Nos):**

The Project has one no Package of Inlet construction work as Package No. JB-1. As per approved DPP, the Inlet Construction cost was 177.24 lakh and contract value was 34.37 lakh. So there were savings that could have been utilized elsewhere after approval from competent authority.

**(e) Slope protection both sides of approach embankment of Regulator (800 meter):**

The Project has one Package of slope protection both sides of approach embankment of Regulator as Package No. JB-5. As per approved DPP, the Slope protection work cost was 562.44 lakh and contract value was 336.83 lakh. So there were savings that could have been utilized elsewhere after approval from competent authority.

**(f) Land acquisition (7.93 Hac):**

The Project had provision to acquire 7.93 hac land. As per approved DPP, the land acquisition cost was Tk. 122.00 lakh. Due to local people demand a part of embankment alignment was shifted and the acquisition of 4.42 hac land was not required. The net required land 3.51 hac acquisition cost was Tk. 202.35 lakh as per estimate submitted by DC office, Naogaon. Also land registration fee was 14.17 lakh. The land acquisition cost was increased as per Govt. Land Acquisition rule 9(2) & (3). This increased value =  $(202.35 + 14.17 - 122.00) =$  Tk. 94.52 lakh was adjusted from the savings amount from the components.

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

Bangladesh is an alluvial riverine country. Sedimentation of rivers/khals is a common phenomenon. This has significant social & economic impacts. Reduction of drainage capacity increases water logging, loss of fish habitat, decrease of irrigation water. In this context, there have been growing concerns for re-excavation of proposed khals, construction of inlets, slope protection works etc. The present project is executed on an emergency basis. The loss of crop and property has led to impoverishment of thousands of dwellers living within project area due to severe flood occurred in the year of 2017. In these circumstances, the probable flood of upcoming years may cause harmful effect on the livelihood. In this context there has been a long standing social demand for taking up immediate protective measures against devastating flood by re-sectioning embankment. Also, irrigation facilities is one of the major demand of the stakeholder of the project for which construction of inlet, construction of regulator and Jobaibeel khal re-excavation are required. The matter was discussed at higher policy level and opined for initiating immediate sustainable solution against devastating flood to safeguard lives, properties, natural environment and to provide irrigation facilities to the stakeholder of the project. Accordingly, present project has been formulated for immediate execution of construction of 10 numbers inlet, construction of 14-vent regulator and 17.550 km Jobaibeel khal re-excavation, 10.00 km embankment re-sectioning, 800 meter slope protection work of approach embankment and afforestation at Patari, Jalsuka, Adatola, Kariapara, Kormudanga, Beldanga, Hapania, Polashdanga, Sonadanga, Mohishdanga, Kodomdanga of Shapahar Upazila and at Doarpal of Porsha Upazila of Naogaon District. Implementing this project helps to protect Patari, Jalsuka, Adatola, Kariapara, Kormudanga, Beldanga, Hapania, Polashdanga, Sonadanga, Mohishdanga, Kodomdanga, Doarpal and adjacent area from severe flood and to provide irrigation facilities to the project area.

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

#### **◆ Project Identification:**

The project is located along the left bank of the Border River Punarbhaba and at Jabaibeel area to protect from severe flood of Border River Punarbhaba and to provide irrigation facilities at Patari, Jalsuka, Adatola, Kariapara, Kormudanga, Beldanga, Hapania, Polashdanga, Sonadanga, Mohishdanga, Kodomdanga of Shapahar Upazila and at Doarpal of Porsha Upazila of Naogaon District. During the FY 2004-05 "Construction of Flood Embankment along the left bank of Border River Punarbhaba Sub-project" was approved. Construction of 14-vent regulator, connecting Jobaibeel Khal re-excavation was not possible to complete under that project due to exceeding DPP cost. Therefore it was required to construct 14-vent regulator and to re-excavate the connecting Jobaibeel Khal under Jobaibeel FCDI project. Also, The local Honourable Member of Parliament (MP), Local people and people's representatives were demanding for immediate re-excavation of the proposed khals and for implementation of other components of the project.

#### **◆ Project Preparation:**

To protect from severe flood of Border River Punarbhaba and to provide irrigation facilities at Patari, Jalsuka, Adatola, Kariapara, Kormudanga, Beldanga, Hapania, Polashdanga, Sonadanga, Mohishdanga, Kodomdanga of Shapahar Upazila and at Doarpal of Porsha Upazila of Naogaon District. A Technical Committee was formed September/2015 by BWDB. On the Recommendation of the Technical Committee, DPP was furnished.

#### **◆ Appraisal:**

The PEC meeting was held on 17.07.2016 at Planning Commission. As per decision of PEC Meeting the DPP was corrected and sent to the Planning Commission for approval the project.

◆ **Credit Negotiation:** Not Applicable.

◆ **Credit Agreement:** Not Applicable.

◆ **Credit Effectiveness:** Not Applicable.

◆ **Loan Disbursement:** Not Applicable.

◆ **Loan Conditionality:** Not Applicable

#### **◆ Project Approval:**

The project was approved by Honorable Planning Minister on 15/12/2016 and as per Planning commission memo no: 20.358.014.01.01.244.2016, Dated: 21/12/2016.1<sup>st</sup> Revised DPP was approved by MoWR on 18/03/2019.

◆ **Others (if any):** Nill.

### **4. Analysis of the Post-Implementation situation and result of the project:**

4.1 Whether the beneficiaries of the project have clear knowledge about the Target/ Objectives of the project.

Yes.



**4.2 Programme for use of created-facilities of the project**

The stack holders are directly taking advantages of the created facilities of the project.

**4.3 O & M programme of the project.**

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

**4.4 Impact of the project -**

**4.4.1 Direct.**

- ❖ Cropping intensity have been increased from 132.14% to 197.32% through improved drainage system & storage capacity of the existing Jobaibeel Khal.
- ❖ Storage/drainage capacity of Jobaibeel Khal have increased.
- ❖ Supplementary irrigation facilities of about 11200 hac (Net) irrigable area of Jobaibeel & adjoining area by construction of 14-vent regulator.
- ❖ Communication network has improved.

**4.4.2. Indirect**

- ❖ Local food security & social development have been enhanced by increasing agricultural production.
- ❖ Overall Socio-economic condition have improved.

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

Not Applicable.

**4.6 Employment generation through the project.**

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

**4.7 Possibility of Self employment**

There are possibilities of self employment as existing commercial and business centre are protected from flood.

**4.8 Possibility of women-employment opportunity**

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

**4.9 Women's participation in development**

Yes.

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

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

**4.11 Impact on environment**

Environmental enhancement is achieved through the implementation of the project.

**4.12 Sustainability of the project**

The project is sustained but requires periodic maintenance.

**4.13 Contribution to poverty alleviation/reduction**

The project has direct contribution and impact on poverty alleviation/reduction.

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

Positive remarks regarding the project.

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

Not Applicable.

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

<b>Project Management</b>	: N/A.
<b>Project Director</b>	: N/A.
<b>Land Acquisition</b>	: Land acquisition required more time. Hence, project implementation was delayed.
<b>Procurement</b>	: Package no: JB-2 and Package no: JB-7 was Re-Tendered. Hence, tendering process consumed time.
<b>Consultancy</b>	: N/A.
<b>Contractor</b>	: N/A.
<b>Manpower</b>	: N/A.
<b>Law &amp; Order</b>	: N/A.
<b>Natural calamity</b>	: Due to severe and long-term flood of year 2017 the implementation of the project was delayed.
<b>Project financing, allocation and release</b>	: N/A.
<b>Design formulation/approval</b>	: Change of design of re-excavation of Jabaibeel khal, construction of 10 nos inlet, slope protection work at approach embankment and 14-vent regulator due to ground consideration.
<b>Project aid disbursement and re-imburement</b>	: N/A.
<b>Mission of the development partners.</b>	: N/A.
<b>Time &amp; Cost Over-run</b>	: Time over-run caused due to above mentioned problems.
<b>Project Supervision/Inspection</b>	: N/A.
<b>Delay in Decision</b>	: N/A.
<b>Transport</b>	: N/A.
<b>Training</b>	: N/A.
<b>Approval</b>	: N/A.
<b>Others</b>	: N/A.

## 06. Remarks & Recommendations of the Project Director:

The main objective of the project is to increase cropping intensity from 132.14% to 197.32% through improving drainage system & storage capacity of the existing Jobaibeel Khal, to provide irrigation facilities of about 11200 hac (Net) irrigable area of Jobaibeel & adjoining area by constructing 14-vent regulator and to develop Communication of Patari, Jalsuka, Adatola, Kariapara, Kormudanga, Beldanga, Hapania, Polashdanga, Sonadanga, Mohishdanga, Kodomdanga of Shapahar Upazila and Doarpal of Porsha Upazila by the execution of construction of 10 numbers Inlet, construction of 14-vent Regulator (1 Nos.), Re-excavation of 17.550 km Jabaiibeel Khal, Re-sectioning of 10.00 km embankment, Slope Protection of 800 meter approach embankment and Afforestation. Implementation of the project caused enhanced investment in housing and development work and have also caused positive impacts on agriculture and fish resources production and land prices. These all shall cause enhanced opportunity of employment and poverty alleviation.

Due to implementation of the project agricultural production will be increased, which have direct relavance on local food security & social development and overall socio-economic condition resulting in attaining self-reliance, generation of rural employment, poverty alleviation of rural poor people, creation of social & environmental balance & building of economic infrastructures for the future generation.

The commencement and completion of the project is schedule to be accomplished in September, 2016 to June, 2020 as per approved DPP (1<sup>st</sup> Revised) and accordingly implementation completion has been achieved.

The Project is specifically linked with SDGs. The Ministry of Water Resources has been engaged in all programs relating to water sector development and management. It will continue to deal with flood protection. There are other Bangladesh Development Goals which have to be achieved through Poverty Reduction Strategy. So, Water Sector has a vision for development and management of Water Resources over medium and long term. The vision for water resources sector has been indicated in the declaration of the National Water Policy document of GOB (1999). Vision, incorporated in the document is as follows:

*“Ensuring continued progress towards fulfilling the national and MDG goals of development through acquisition of water resources, optimizing its various use, managing resources for poverty reduction and sustainable development for securing their lives and properties from water related disasters”.*


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



Considering all aspects, it is a very accomplished & fruitful project of BWDB.

**Recommendation:** Proper Monitoring and regular maintenance of the implemented works of the project are required for more sustainability of the project.

Date:

  
(Md. Mukhlisur Rahman)  
Project Director/Engineer  
Rajshahi O & IM Circle  
BWDB, Rajshahi.  
ID-680801004

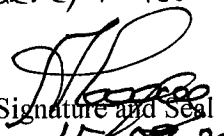
Project Director/Superintending Engineer

Jobaibeel Flood Control, Drainage & Irrigation Project in  
Upazilla Shapahar and Porsha under Naogaon District  
(1st Revised).

**07. Remarks/ Comments of Agency Head.**

This project has extended supplementary irrigation facilities to approximately 11200 ha. area of Jobaibeel. After completion of this project cropping intensity has increased in the project area. Re-excavation of Khals and re-sectioning of embankments have also assured greater safety against flood. During the pandemic Covid-19, BWDB is proud to contribute in attaining self sufficiency in food production by implementing such FCDI project.

Date:

  
Signature and Seal  
15-09-2020

(A. M. Aminul Haque)  
Director General  
BWDB, Dhaka.

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

Date:

Signature and Seal.

