



BANGLADESH WATER DEVELOPMENT BOARD

PROJECT COMPLETION REPORT

IMED FORM NO. : 04/2003 (Revised)

**NAME OF PROJECT : RE-EXCAVATION OF KHAL AND IMPROVEMENT OF CROP
TRANSPORT SYSTEM IN THE DINGAPOTA HAOR AREA AT
MOHONGANJ UPAZILA IN NETRAKONA DISTRICT (1st REVISED).**

DIVISION : NETRAKONA O&M DIVISION, BWDB, NETRAKONA
CIRCLE : MYMENSINGH O&M CIRCLE, BWDB, MYMENSINGH
ZONE : CENTRAL ZONE, 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 : RE-EXCAVATION OF KHAL AND IMPROVEMENT OF CROP TRANSPORT SYSTEM IN THE DINGAPOTA HAOR AREA AT MOHONGANJ UPAZILA IN NETRAKONA DISTRICT (1st REVISED).
02. Administrative Ministry/Division : Ministry of Water Resources (MoWR)
03. Executing Agency : Bangladesh Water Development Board (BWDB)
04. Location of the Project : Upazila- Mohanganj, District- Netrakona.
05. Objective of the Project :

1. The main objective of the project is to increase agricultural production about 48537 Metric Tons of paddy providing irrigation. Facilities about 7000.00 Hectares of land during dry season by re-excavation of 65.993 km khal inside the Dingaputa Haor.
2. To provide dry season irrigation facilities for production of 6460 Ha of Boro, 40 Ha of Mustard, 50 Ha of winter vegetables, 50Ha of chillies and sweet pumpkins and other crops and improving communication system so that the farmers can transport the crop safely from the Haor to a safer place.
3. To improve the socio-economic condition of 10060 farming families.
4. Improving the drainage system in the project area and protection of Boro crops from early flash floods.
5. To alleviate poverty and generate employment opportunities.

06. Estimated Cost :

(In Lakh Taka)

	Original	Latest Revised (1 st)
(a) Total	4954.53	5349.19
(b) Taka	4954.53	5349.19
(c) Foreign Currency	-	-
(d) Project Aid	-	-
(e) RPA	-	-

07. Date of Approval :

PCP	PP
-----	----

- (a) Original : --- 16-07-2020
- (b) Latest Revised : --- 02-02-2022

08. Implementation :

	Date of Commencement	Date of Completion
(a) Original	July, 2020	June, 2022
(b) Latest Revised (1 st)	July, 2020	June, 2022
(c) Actual	July, 2020	June, 2022



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
5349.19	-	5349.19	-

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
July, 2020 to June, 2022	July, 2020 to June, 2022	July, 2020 to June, 2022	--	Didn't over-run

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	4954.53	5349.19	4513.43	(-8.86%)	Didn't over-run
TAKA	4954.53	5349.19	4513.43		
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 (Netrakona O&M Division, BWDB, Netrakona) were deployed during execution of the project. No separate manpower was engaged for the project.					
Staff (s)						
Total :						

04. Training of Project Personnel (Foreign/Local): No training was scheduled in 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	Not applicable				
b. Local	Not applicable				

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

Items of work (As per PP)	Unit	Target (as per DPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
a) Revenue Component:						
Domestic travel expenses	L.S	2.00	L.S	1.98	L.S	
Gas and fuel	L.S	2.00	L.S	1.96	L.S	
Petrol & Lubricant	L.S	6.00	L.S	5.98	L.S	
Printing & Publication	L.S	1.00	L.S	1.00	L.S	
Stationery, seal & stamps	L.S	1.00	L.S	0.00	L.S	
Other stationery	L.S	4.00	L.S	3.74	L.S	
Advertising expenses	L.S	2.00	L.S	1.40	L.S	
Honorarium	L.S	16.00	L.S	11.99	L.S	
Survey	L.S	6.00	L.S	5.98	L.S	
Repair of Transport and Vehicles (1 nos. jeep, 3 nos. Motor cycle)	L.S	4.00	L.S	3.98	L.S	
Maintenance of Office Building	L.S	20.00	L.S	18.93	L.S	
Sub-Total (Revenue component):		64.00		56.94		
b) Capital Component:						
Acquisition of asset:						
Motorcycles, 100-125 cc including registration- 1 no.	Nos	1.88	1	1.500	1	
Engineering and other equipments (Leveling Machine 2nos, Hand GPS-2nos)	Nos.	2.00	4	1.990	4	
Computers and accessories Brand Computer with laser printer-6 set	set	5.60	6	5.570	6	
Office equipment (Photocopy Machine and Multimedia)	nos	1.97	1	1.970	1	
Furniture	LS	5.00	LS	4.960	LS	

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
Afforestation	Km	10.00	Km	9.970	Km	
Construction of Civil works						
Re-Excavation of Khal 65.993km	Km/Cum	3314.78	65.993 km/ 29.11 Lac Cum.	3063.60	65.213 km/ 19.39 Lac Cum	780.00 m of Beldariar khal is not excavated due to stay order from court.
Rural roads (For Crops Transpiration) 7.69 km	km	1629.19	7.69	1136.01	5.267 km (full) 2.423 km (partial)	Due to early flush flood on April'2022, the working site was submerged. So, construction of full length of RCC road was not possible.
Others Structure (RCC Signboard)	nos	9.00	15	8.07	15	
Others Structure (Dormitory Building, RCC drain)	Sqm & km	305.77	1350 sqm & 1.20 km	222.85	1350 sqm & 0.926 km	Due to early flush flood on April'2022, the working site was submerged. So, construction of full length of RCC drain was not possible.
Sub-Total (Capital component):		5285.19		4456.49		
Grand-Total (a+b)		5349.19	100%	4513.43	92.65%	

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
Mohammad Aktaruzzaman Executive Engineer Netrokonna O&M Division BWDB, Netrokonna Tk. 43000--69850	Full time	-	No	20/08/2020	03/11/2020	-
M.L. Shaikat Executive Engineer Netrokonna O&M Division BWDB, Netrokonna Tk. 43000--69850	Full time	-	No	21/12/2020	04/07/2022	-

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
There was no provision of procuring transport and accordingly no transport was procured under the project						

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 DPP RDPP	Contracted value	Invitation date	Contract signing/LC opening date	As per contract	Actual
1	2	3	4	5	6	7
Re-excavation of Bhaithakali khal from CH KM 0.00 to KM 7.50 = 7.50 KM in c/w Re-excavation of Khal and improvement of Crop transport system in the Dingapota Haor Area at Mohangonj Upazila in Netrakona District under Netrakona O&M Division BWDB Netrakona during the Financial year 2020-21 & 2021-22. (T. ID No.- 490527). Package No.- BWDB/Netro/w-1/2019-20/2020-21/ 2021-22.	DPP-5.47 RDPP-5.35	Original-4.92 Revised-5.26	07-09-2020	08-02-2021	30-05-2022	30-05-2022
Re-excavation of Bhatapara Khal from Km 0.00 to Km 3.05 3.05 km & Latir Khal from Km 0.00 to Km 3.80 3.80 km Total Length 6.850 KM in c/w Re-excavation of Khal and improvement of Crop transport system in the Dingapota Haor Area at Mohangonj Upazila in Netrakona District under Netrakona O&M Division BWDB Netrakona during the Financial year 2020-21 & 2021-22. (T. ID No.- 490528). Package No.- BWDB/Netro/w-2/2019-20/2020-21/2021-22.	DPP-4.35 RDPP-4.13	Original-3.88 Revised-3.66	07-09-2020	24-01-2021	30-05-2022	30-05-2022
Re-excavation of Ghorauthra khal from CH KM 0.00 to KM 5.8 = 5.8 KM in c/w Re-excavation of Khal and improvement of Crop transport system in the Dingapota Haor Area at Mohangonj Upazila in Netrakona District under Netrakona O&M Division BWDB Netrakona during the Financial year 2020-21 & 2021-22. (T. ID No.- 490530). Package No.- BWDB/Netro/w-3/2019-20/2020-21/ 2021-22.	DPP-4.45 RDPP-3.19	Original-4.00	07-09-2020	04-03-2021	30-06-2022	30-06-2022
Re-excavation of Berakhali Khal from Km 0.00 to Km 4.00 = 4.00 km & Nolvanga Khal from Km 0.00 to Km 2.60 = 2.60 km Total Length 6.6 KM in c/w Re-excavation of Khal and improvement of Crop transport system in the Dingapota Haor Area at Mohangonj Upazila in Netrakona District under Netrakona O&M Division BWDB Netrakona during the Financial year 2020-21 & 2021-22. (T. ID No.- 490538). Package No.- BWDB/Netro/w-4/2019-20/2020-21/ 2021-22	DPP-4.15 RDPP-4.00	Original-3.72 Revised-3.52	07-09-2020	24-01-2021	15-06-2021	15-06-2021
Re-excavation of Joltunai khal from CH KM 0.00 to KM 12.00 = 12.0 KM in c/w Re-excavation of Khal and improvement of Crop transport system in the Dingapota Haor Area at Mohangonj Upazila in Netrakona District under Netrakona O&M Division BWDB Netrakona during the Financial year 2020-21 & 2021-22. (T. ID No.- 490545). Package No.- BWDB/Netro/w-5/2019-20/2020-21/ 2021-22	DPP-4.14 RDPP-4.50	Original-3.72 Revised-4.27	07-09-2020	02-02-2021	30-05-2022	30-05-2022
Re-excavation of Mollikpur khal from CH KM 0.00 to KM 7.48 = 7.48 KM in c/w Re-excavation of Khal and improvement of Crop transport system in the Dingapota Haor Area at Mohangonj Upazila in Netrakona District under Netrakona O&M Division BWDB Netrakona during the Financial year 2020-21 & 2021-22. (T. ID No.- 490547). Package No.- BWDB/Netro/w-6/2019-20/2020-21/ 2021-22.	DPP-3.38 RDPP-2.25	Original-3.03	07-09-2020	10-02-2021	26-06-2022	26-06-2022
Re-Excavation of Satmadhalai Khal from Km 0.00 to Km 8.00 8.00 KM in c/w Re-excavation of Khal and improvement of Crop transport system in the Dingapota Haor Area at Mohangonj Upazila in Netrakona District under Netrakona O&M Division BWDB Netrakona during the Financial year 2020-21 & 2021-22. (T. ID No.- 490546). Package No.- BWDB/Netro/w-7/2019-20/2020-21/ 2021-22	DPP-6.11 RDPP-4.32	Original-5.49	07-09-2020	07-02-2021	30-06-2022	30-06-2022
Construction of RCC Road from Attul Master	DPP-4.27	Original-4.25	07-09-2020	09-02-2021	26-06-2022	26-06-2022

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 DPP RDPP	Contracted value	Invitation date	Contract signing/LC opening date	As per contract	Actual
1	2	3	4	5	6	7
House to Kowratola Haor from Km 0.00 to Km 1.10 & Baccu Mia House to Dattokhila from Km 0.00 to Km 1.20 Total Length 2.3 KM in c/w Re-excavation of Khal and improvement of Crop transport system in the Dingapota Haor Area at Mohangonj Upazila in Netrakona District under Netrakona O&M Division BWDB Netrakona during the Financial year 2020-21 & 2021-22. (T. ID No.- 490548). Package No.- BWDB/Netro/w-08/2019-20/2020-21/ 2021-22	RDPP-4.45	Revised-4.41				
Construction of RCC Road from Cirani to Shajahan Mia House from Km 0.00 to Km 1.09 1.09 KM & RCC Road from Shukdevpur School to Nawga Kangsho River Km 0.00 to Km 1.90 1.90 KM Total Length 2.99 KM in Mohangonj Upazilla of Netrakona district in c/w Re-excavation of Khal and improvement of Crop transport system in the Dingapota Haor Area at Mohangonj Upazila in Netrakona District project under Netrakona O&M Division during the year 2020-21 & 2021-22. (T. ID No.- 490552). Package No.- BWDB/Netro/w-09/2019-20/2020-21/ 2021-22	DPP-6.14 RDPP-6.99	Original-5.53	07-09-2020	18-02-2021	21-06-2022	21-06-2022
Construction of RCC Road from Kowratola Haor to Baniyari Eidgah Km 0.00 to Km 2.40 = 2.40 KM in Mohangonj Upazilla of Netrakona district in c/w Re-excavation of Khal and improvement of Crop transport system in the Dingapota Haor Area at Mohangonj Upazila in Netrakona District project under Netrakona O&M Division during the year 2020-21 & 2021-22. (T. ID No.- 490554). Package No.- BWDB/Netro/w-10/2019-20/2020-21/ 2021-22	DPP-3.90 RDPP-4.83	Original-3.51	07-09-2020	10-02-2021	21-06-2022	21-06-2022
Re-excavation of Badarkhali Joltunai Khal from CH KM 0.00 to KM 8.50 total 8.50 KM in c/w Re-excavation of Khal and improvement of Crop transport system in the Dingapota Haor Area at Mohangonj Upazila in Netrakona District under Netrakona O&M Division, BWDB, Netrakona during the Financial year 2021-22. (Tender ID Number-628454). (Package No- BWDB/Netra/W-15/2021-22).	RDPP-3.52	Original-2.87 Revised-3.82	15-11-2021	06-02-2022	30-05-2022	30-05-2022

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:	Not applicable			
b) Local:	Not applicable			

09. Construction/Erection/Installation Tools & Equipment:

Description of items	Quantity (as per DPP)	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 DPP:

Financial Year	Financial provision & physical target as per original DPP				Financial provision & physical target as per latest revised DPP			
	Total	Taka	P. A	Physical%	Total	Taka	P. A	Physical%
1	2	3	4	5	6	7	8	9
2019-20	180.70	180.70	--	3.65	0.00	0.00	--	0.00
2020-21	2211.00	2211.00	--	44.62	1432.77	1432.77	--	34.65
2021-22	2562.83	2562.83	--	51.73	3916.42	3916.42	--	65.35
Total	4954.53	4954.53	--	100.00	5349.19	5349.19	--	100.00

01. (b) Revised ADP allocation and progress:

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
2019-20	0.00	0.00	--	0.00%	0.00	0.00	0.00	--	0.00
2020-21	1935.00	1935.00	--	34.65%	1435.00	1432.77	1432.77	--	45.00
2021-22	3916.00	3916.00	--	65.35%	3916.00	3080.66	3080.66	--	47.65
Total	5851.00	5851.00	--	100.00%	5351.00	4513.43	4513.43	--	92.65

*During FY-2020-21, funds weren't released as allocated.

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Objective as per DPP	Actual achievement	Reasons for shortfall, if any
1. The main objective of the project is to increase agricultural production about 48537 Metric Tons paddy providing irrigation facilities about 7000.00 Hectares of land during dry season by re-excavation of 65.993 km khal inside the Dingaputa Haor.	(1) By re-excavation of khal, irrigation facilities have been extended to 7000 Hectares of land which increases agricultural production. Exact amount of enhanced production will be calculated after a year.	No short fall
2. To provide dry season irrigation facilities for production of 6460 Ha of Boro, 40 Ha of Mustard, 50 Ha of winter vegetables, 50Ha of chillies and sweet pumpkins and other crops and improving communication system so that the farmers can transport the crop safely from the Haor to a safer place.	(2) 6460 Ha of Boro, 40 Ha of Mustard, 50 Ha of winter vegetables, 50 Ha of chillis and sweet pumpkins and other crops are produced by increasing irrigation facilities and communication system is also improved for transporting crops from haor to safer place.	
3. To improve the socio-economic condition of 10060 farming families.	(3) Socio-economic condition of 10060 farming families have improved.	
4. Improving the drainage system in the project area and protection of Boro crops from early flash floods.	(4) Drainage system in the project area have Improved and production of Boro crops have protected from early flash floods.	
5. To alleviate poverty and generate employment opportunities.	(5) Poverty is alleviated by generating employment opportunities.	

E. BENEFIT ANALYSIS

01. Annual Output:

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)
Irrigable land extension	Hectare	7000	The project has just been implemented. Output values can be accessed after a year from completion.
Incremental paddy production on project area	MTon/year	48537	
Incremental boro production on project area	Hectare	6460	
Incremental Mustard production on project area	Hectare	40	
Incremental Vegetable production on project area	Hectare	50	
Incremental Chilli, Pumpkin & other Vegetable production on project area	Hectare	50	

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

Item	Estimated	Actual
(1) Benefit cost ratio of the project		Will be evaluated later by concerned directorate of BWDB and IMED.
(i) Financial	-	
(ii) Economic	1.70:1.00	
(2) Internal Rate of Return		
(i) Financial	-	
(ii) Economic	25.89%	

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) <u>Ministry/Agency:</u>			
1. Mr. Md. Abdul Matin Sarkar Chief Engineer Central zone, BWDB, Dhaka	20/03/2022	Not found	Instructed to complete the project in time.
2. Mr. Md. Mahfuzur Rahman Superintending Engineer Mymensingh O & M Circle BWDB, Mymensingh	03/02/2022 18/03/2022	Not found	Instructed to complete the project in time.
3. Mr. M. L. Shaikat PD & Executive Engineer Netrakona O&M Division, BWDB	05/03/2021 20/03/2021 09/06/2021 05/10/2021 18/12/2021 30/12/2021 25/01/2022 19/02/2022 20/02/2022 11/03/2022		

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
	18/03/2022 20/03/2022 29/03/2022		
Midterm Evaluation Committee: 1. Mr. S. M. Rezaul Mostafa Kamal Additional Secretary (Planning), Ministry of Water Resources 2. Mr. Mohm. Enamul Haque Joint Chief, Irrigation wing, Planning Commission 3. Mr. Md. Saiful Islam Director General, IMED 4. Mr. Dipanwita Saha Deputy Chief, Ministry of Water Resources 5. Mr. Ratna Sharmin Jhara Deputy Chief Irrigation wing, Planning Commission 6. Mr. Nazmul Islam Bhiyan Deputy Secretary Ministry of Water Resources 7. Mr. Khairun Nahar Deputy Secretary Ministry of Water Resources 8. Mr. M. L. Shaikat PD & Executive Engineer Netrakona O&M Division, BWDB 9. Mr. Md. Abdur Rakib Executive Engineer Office of the Chief Planning, BWDB 10. Mr. Sharmin Sultana Senior Assistant chief Irrigation wing, Planning Commission	18/03/2022	No Problem was identified during the execution of the Project.	Midterm evaluation committee recommended on tree plantation at the bank of excavated khals. At the same time, materials used in road construction are recommended for testing from laboratory of BUET. Committee provided special importance on completing the project within stipulated time.
(b) IMED:			
-	-	-	-
(c) Others:			
-	-	-	-

0.2. Auditing during and after Implementation:

2.1 Internal Audit:

No internal audit has been conducted

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: yet to be conducted.

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

G. DESCRIPTIVE REPORT

1. General Observations/Remarks of the Project on:

1.1 Background

Netrakona district is known as the granary of Bangladesh. This district is well known and ranks top in Bangladesh in production of all types of agricultural products. The economy of Netrakona is mainly based on the production of paddy, potato, wheat, jute etc. A large amount of paddy is produced here. Also, there are many paddy and poultry farms in this district. Every day huge number of agricultural products like paddy, jute is exported internationally. Therefore, the canals of Netrakona district can play an important role in the production and transportation of agricultural products. Haor is connected with Baitakhali khal, Ghorautra khal, Naljuri khal, Bhatapara khal, Gangina khal, Jaltunai khal, Latair khal, Mallikpur khal and rivers.

These khals and water bodies of Haor are connected to the river through various canals and spread out like a net. A large number of crops are produced in this haor during the dry season. The rivers are contributing to the crop production through irrigation and drainage. Dingapota Haor has a total gross area of 7000 hectares and a net area of 6600 hectares. At Dingapota Haor, the number of farmer families is about 10060 and currently the progress of Boro cultivation is 6500 hectares (Hybrid 175, subspecies 6320, local 5) of land which are under cultivation every year. Major crops such as boro paddy, mustard, winter vegetables, patam pepper, misty pumpkin etc. winter vegetables are widely cultivated in Haor.

Out of the total cultivable land, boro paddy is cultivated in 6460 ha, mustard in 40 ha, jute in 10 ha, chillis, misty kumra in 35 ha and Annan vegetable in 15 ha. If the project is implemented, the cultivation of iri-boro crops in the benefited areas will increase the amount of rice production every year at a higher rate. Some possibilities are given:

1. Boro is highly suitable for paddy cultivation as Haor land is fertile.
2. If the canal inside Haor is re-excavated along with quick drainage of Haor water and canal water is used for irrigation in dry season, the production of rice can be increased by producing high-yielding paddy.
3. The construction of inter-haor link roads will enable the crops to be moved from haor to safe places quickly.

Inadequate runoff and sedimentation during the dry season led to river and canal bed filling. As a result, the rivers become almost dead during the dry season. The water holding capacity of the rivers is not enough. When it rains heavily during the monsoon, the water of the river overflows easily and causes floods. Agricultural lands, roads, houses, and bazaars were inundated by floods. On the other hand, during the dry season, irrigation activities are disrupted due to lack of water. Water transport was disrupted due to the navigability crisis. Due to the illegal use of rivers by some local people, the rivers have lost their width and narrowed. For the development of drainage, irrigation and crop transportation system of Dingapota Haor, the project was approved by

1.2 Justification/Adequacy

With high population density, poor resource base and vulnerability to natural disasters, Bangladesh is one of the poorest countries in the world. GDP per capita of the country is approximately US\$ 370. Although the national poverty declined from 58.80% to 49.80% over the period 1991-92 2000 (PRSP, 2003). Income differentials between the poor and the poorest are important aspects in poverty reduction in Bangladesh. At least about 45% poor population currently subsists in extreme poverty. Rural Population is poorer (53%) than the urban (36.60%). Significant gender disparity also exists in income poverty. For rapid poverty reduction, GoB's priority is to develop the rural areas where most of the poor people live in. This requires accelerated growth in agriculture and rural non-farm sector. Development in Water Resources including irrigation, flood control and drainage improvement played significant roles in increasing agricultural production and food security in the past and this would continue. The major problems responsible for poverty include high level of land lessness, unemployment, illiteracy and malnutrition infant mortality. Although the conditions in some areas are less gloomy than in others, the project area as a whole is no exception to this situation.

Despite considerable investment in various sectoral developments, self-reliance in food grains attainment and apparent rise in per capita GDP, the country is still characterized disaster vulnerability and prevalent poverty. Economic indicators, on the contrary, indicate increasing income-inequality & poverty. In view of the country's global commitments i.e., Millennium Development Goals (MDG) and Partnership Agreement of poverty Reduction (PAPR), the govt. has been obliged to prepare a Poverty Reduction Strategy (PRS). The goal of reducing income-poverty level to half by 2015, for instance, would require significant intensive efforts. As an action plan under stated objectives for poverty reduction, proposed comprehensive project programme has been considered for implementation for sustaining regional & national economic growth. Socio-economic development and poverty reduction remain the over-riding development priority for an under-developed area like proposed project area. The proposed project aims to facilitate the project area by providing irrigation which will help to achieve optimum agricultural production and enhancement of socio-economic activities for local dwellers.

If the project is implemented, the maritime transport system will be improved. Irrigation in agriculture will be easier and cheaper. River pollution situation will improve. Protection and flow of river from illegal encroachment will be ensured. The environment of the area will be improved. Besides, if it is possible to properly observe various religious and cultural events centered on the river, peace, harmony and mutual good relations will develop among the people of the area. It will also improve local security and national economic conditions, while poverty alleviation and employment opportunities will be created and will have a positive impact on the environment.

1.3 Objectives

The objectives of the project are:

1. The main objective of the project is to increase agricultural production about 48537 Metric Tons of paddy providing irrigation facilities about 7000.00 Hectares of land during dry season by re-excavation of 65.993 km khal inside the Dingaputa Haor.
2. To provide dry season irrigation facilities for production of 6460 Ha of Boro, 40 Ha of Mustard, 50 Ha of winter vegetables, 50Ha of chillies and sweet pumpkins and other crops and improving communication system so that the farmers can transport the crop safely from the Haor to a safer place.
3. To improve the socio-economic condition of 10060 farming families.
4. Improving the drainage system in the project area and protection of Boro crops from early flash floods.
5. To alleviate poverty and generate employment opportunities.



1.4 Project revision with reasons

During the implementation of the project aimed at improving the drainage, irrigation and crop transport system of Dingapota Haor, it is observed that Ghorautra, Mallikpur and Satmadhlai khals have cross bundh horizontally at some places. During the implementation of the khal re-excavation work, the cross bundh was not removed due to the demand of the local public for transportation facilities. Besides, as per the design, the width of Nalbhangha khal is 8.0 m and length are 2.60 km. But in reality, the average width of the khal is 2.00-2.50 m and length are 250.00 m. It is to be noted that above issues have been discussed in detail at 1st meeting of project implementation committee held at 21.06.2021 and 1st meeting of the steering committee held at 02.11.2022. After the discussion in the meeting, it was decided that instead of Nalbhangha khal under package number-4, Dattakhila khal of Dingapota Haor should be included and the remaining work should be done through variation. It was also decided in the meeting that a feasibility study have to be conducted and revision of the DPP will be executed as per feasibility study report.

In order to solve the problems arising in this context, a committee for feasibility study was formed according to the Board Secretariat Memorandum No. 42.01.00000.032.06.001.21-77, Date: 15/07/2021. By data collection and design review, preparation of estimates, feasibility study report is submitted to the board by the feasibility study committee. According to the feasibility study report, DPP was revised and GO of revised DPP was published on Memorandum No. 42.00.0000.040.014.027.2018-45, Date: 02/02/2022 by Planning-2, Ministry of Water Resources. In the revised DPP, total cost of the DPP is increased from 4954.53 lac to 5349.19 lac without increasing completion time.

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

Dingapota Haor has a total gross area of 7000 hectares and a net area of 6600 hectares. At Dingapota Haor, the number of farmer families is about 10060 and currently the progress of Boro cultivation is 6500 hectares (Hybrid 175, subspecies 6320, local 5) of land which are under cultivation every year. Major crops such as boro paddy, mustard, winter vegetables, patam pepper, misty pumpkin etc. winter vegetables are widely cultivated in Haor. Out of the total cultivable land, boro paddy is cultivated in 6460 ha, mustard in 40 ha, jute in 10 ha, chillies, misty kumra in 35 ha and Annan vegetable in 15 ha. By implementing the project, the cultivation of iri-boro crops in the benefited areas are increased the amount of rice production every year at a higher rate. On the other hand, some land-depredator has grabbed a significant portion of the khals. After re-excavation of khals, the project will protect the project area from flood and improve drainage situation of Dingapota Haor and improve the environmental and social impacts, preservation of biodiversity. Hence, the project concept, location & timing is justified. The project has been implemented according to approved design & specification. Per kilometer cost of re-excavation of khal have been 50.23 lac BDT only and Per meter RCC road construction cost have been 211.86 lac BDT only. For devouring benefits worth, the unit cost for this particular civil work s seem very reasonable. Thus, the project has been implemented in a cost-effective way.

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

◆ Project Identification:

The project was initially identified by local politicians, local elites, etc. Those stakeholders earnestly requested the Honourable Member of Parliament (Mohangonj Modan Khaliajuri) and PS-1 of Hon'ble Prime Minister addressing the problem of food crisis, drainage, flood and transportation problem at Dingapota Haor.



- ◆ **Project Preparation:**
The site was visited by the Hon'ble Member of Parliament Begam Rebecca Momin (Mohangonj Modan Khaliajuri) and PS-1 of Hon'ble Prime Minister, Hon'ble Director General of BWDB and instructed to take necessary action to reduce the threat of food crisis, flood problem and improve transportation facility of Dingapota Haor. Later on, a Technical Committee was formed by BWDB. On the basis of Technical Report submitted by Committee, the project was prepared.
- ◆ **Appraisal:**
PEC meeting was held on 18/12/2019 in Planning Commission and decision was taken to revise financial and economic analysis of this project, correction of different committee programme and unit cost of civil works. Finally, as per decision of PEC, Hon'ble Planning Minister approved the project on 20 July 2020.
- ◆ **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 July, 2020 & subsequent revision was approved on February, 2022.
- ◆ **Others (if any):** Nil

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

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

4.2 **Programme for use of created-facilities of the project:**
The stakeholders are directly taking advantages of the created facilities of the project.

4.3 **O & M programme 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:**

- Irrigation facilities of 7000.00 Hectares of land is increased which increases the agricultural production.
- 6460 Ha of Boro and other crops are produced by increasing irrigation facilities and communication system is also improved for transporting crops from haor to safer place.
- Socio-economic condition of 10060 farming families have improved.
- Drainage system in the project area have Improved.

- Food supply at the local level is increased by increasing agricultural production.

4.4.2 Indirect:

- Sustainable socio-economic enhancement.
- Enhancement of local employment.
- Enhancement of eco system and biodiversity.
- Endangered fish species are saved by excavation of khal.
- Poverty is alleviated by generating employment opportunities.

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 more than 1 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:

As the project area is used as a harvesting, it will increase the socio-economic activities largely.

4.11 Impact on environment:

Environmental enhancement is achieved through the implementation of the Project. Flood and water logging related disease reduced and the drainage system of Dingaota Haor area is developed.

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.,

- 1) Food security is increased.
- 2) It generated employment for skilled/unskilled during working period and also in annual O&M phase in project performance.
- 3) Transportation of boro and other crops is facilitated by construction of RCC road.
- 4) Flood damage will reduce as khals are excavated which will carry more water to the downstream.

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.

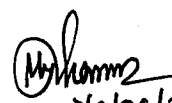
Not Applicable

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

5.1	Project Management-N/A	5.12	Project aid disbursement and re-imbursement-N/A
5.2	Project Director-N/A	5.13	Mission of the development partners-N/A
5.3	Land Acquisition-N/A	5.14	Time & Cost Over-run-N/A
5.4	Procurement-N/A	5.15	Project Supervision/Inspection-N/A
5.5	Consultancy-N/A	5.16	Delay in Decision-N/A
5.6	Contractor-N/A	5.17	Transport-N/A
5.7	Manpower-N/A	5.18	Training-N/A
5.8	Law & Order-N/A	5.19	Approval-N/A
5.9	Natural calamity-Due to flush flood on April'2022, the working site of all weather road was submerged. So, some portion was partially implemented.	5.20	Others-N/A
5.10	Project financing, allocation and release-N/A		
5.11	Design formulation/approval-N/A		

6. **Remarks & Recommendations of the Project Director:**

Dingapota Haor has a total gross area of 7000 hectares and a net area of 6600 hectares. At Dingapota Haor, the number of farmer families is about 10060 and currently the progress of Boro cultivation is 6500 hectares (Hybrid 175, subspecies 6320, local 5) of land which are under cultivation every year. Major crops such as boro paddy, mustard, winter vegetables, patam pepper, pumpkin etc. winter vegetables are widely cultivated in Haor. Inadequate runoff and sedimentation during the dry season led to river and canal bed filling. As a result, the rivers became almost dead during the dry season. The water holding capacity of the rivers was not enough. After completing the project, re-excavated khals have improved the flood and drainage situation of Dingapota Haor. Production of Boro and other crops have increased. Some khal lands were reclaimed from illegal possession. Constructed RCC roads have helped farmers to easily carry the paddy and other crops from haor to safe place. Poverty of the local people has reduced and unemployment problems are minimized. By implementing this project, socio economic situation has improved and biodiversity is preserved. The project complies with government's Eighth Five Year Plan & goals of SDG. The project has been implemented under rigorous monitoring & supervision. BWDB Taskforce committee has ensured the measurement of khal re-excavation in the project. Several high officials from Ministry of Water Resources, Planning Commission and BWDB have visited the project during implementation period & expressed their satisfaction about the implementing works. So, objective & output wise, it is a successful project of BWDB. The implemented project will require regular maintenance & it's expenditure will be incurred from BWDB's O&M budget.

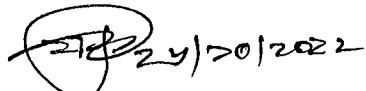

26/10/2022

(Md. Sarwar Jahan)
Executive Engineer
Netrakona O&M Circle
BWDB, Netrakona.

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

The main objective of this project was to increase agricultural production by about 48537 Metric Tons of paddy providing irrigation facilities for about 7000.00 hectares of land during the dry season by re-excavation of 65.993 km khal inside the Dingapota Haor. The re-excavated khals have improved the flood and drainage situation of Dingapota Haor which results in an increase in Boro and other crop production. Constructed RCC roads have helped farmers to easily transport the paddy and other crops from haor to safe place. The poverty of the local people has been reduced and unemployment problems are minimized. The socio-economic situation has also improved. Overall, this project can be considered a successful one.

Date:


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

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

Under this project, 65.213 km re-excavation of Khal and 5.267 km rural roads (for crops transportation) have been constructed to improve the drainage system of the project area and to protect the Boro crops from early flash flood. With close monitoring and careful supervision, the project was completed without time over run. The project is performing well and good as per expectation and can be declared as sustainable. Proper maintenance and monitoring should be ensured so that the outcome of the project sustains effectively.

Date:

Signature and Seal

