

BANGLADESH WATER DEVELOPMENT BOARD



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

Name of the Project: **Drainage Improvement and Sustainable Water Management of Bhairab River Basin (1st Revised).**

PROJECT PERIOD: JULY, 2016 to JUNE, 2023.

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

CIRCLE : JASHORE O&M CIRCLE, BWDB, KHULNA.

ZONE : SOUTH-WESTERN ZONE, BWDB, KHULNA.

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

PROJECT COMPLETION REPORT: IMED 04/2003 (Revised)

A. PROJECT DESCRIPTION:

- 01. Name of Project** : Drainage Improvement and Sustainable Water Management of Bhairab River Basin (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 - Chaugacha, Jashore (Sadar), Bagherpara & Abhaynagar, Damurhuda, Jibonnagar, District: Jashore, Chuadanga
- 05. Objectives of the Project** :
- To increase drainage capacity of Bhairab river and its adjacent khals through re-excavation and dredging. It will benefit net 22000.00 ha area of Chuadanga, Jashore Sadar, Bagharpara, Abhaynagar Upazilla.
 - To restore navigation draft of Bhairab River.
 - To restore upland flow connection in between Mathabhanga and upper Bhairab river.
 - To provide extended irrigation facilities as well as fisheries development by the re-excavation of Bhairab River and re-excavation of alternative drainage roots & canals.

06. Estimated Cost:

	(In Lakh Taka)	
	Original	Latest Revised (1 st)
a) Total	27281.54	27912.75
b) Taka	27281.54	27912.75
c) Foreign Currency	-	-
d) Project Aid	-	-
e) RPA	-	-

07. Date of Approval :

	PCP	DPP
a) Original :	-	22/09/2016
b) Latest Revision (1 st) :	-	27/05/2021
c) No cost Time extension (1 st)	-	29/06/2022

08. Implementation period:

	Date of Commencement	Date of Completion
a) Original	01 July, 2016	30 June, 2021
b) Latest Revised (1 st)	01 July, 2016	30 June, 2022
c) No cost Time extension (1 st)	01 July, 2016	30 June, 2023
d) Actual	01 July, 2016	30 June, 2023

9. Financial Agreement (source wise): N/A**9.1 Status of Loan/Grant: N/A****a) Foreign Financing:**

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

b) GOB:

(In lakh Taka)

Total Amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
27912.75	-	27912.75	-

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
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
01 July, 2016 to 30 June, 2021	01 July, 2016 to 30 June, 2023	01 July, 2016 to 30 June, 2023	(+) 40.00%	i) After approval of original DPP, based on actual field condition, morphological change, unforeseen situation and others, cost of re-excavation packages increased. Moreover, Re-excavation work within the Jashore faced plenty of difficulties like continuous drainage of daily uses water to Bhairab river, river bed fully silted with slushy, bottle, waste, debris etc. Excavated earth management also very difficult within the city. ii) Moreover, onset of Covid-19 has seriously delayed the progress of the project during the entire year of 2020 and 2021. Due to this, project completion period was increased to June, 2023.

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	27281.54	27912.75	22913.18	(-) 17.91%	
Taka	27231.54	27912.75	22913.18		
PA	-	-	-		

03. Project Personnel: Project work has been implemented by existing manpower of Jashore O&M Division, BWDB, Jashore.

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)	Existing manpower of the implementing agency were deployed during execution of the project.					
Staff(s)						
Total						

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

Field of Training /Study tour/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	N/A				
b) Local	N/A				

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

(In lakh Taka)

Items of work as per RDPP	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 (a):						
a1. Supplies and Services						
Petrol & Lubricant	L.S.	28.00	1 item	27.99	100.00%	
Printing & Publication	L.S.	7.00	1 item	5.99	100.00%	
Stationery, Seal & Stamps	L.S.	12.00	1 item	11.00	100.00%	
Publicity and Advertisement	L.S.	8.97	1 item	8.97	100.00%	
Detail Feasibility Study for Development of Linkage between Mathabhanga & Upper-Bhairab	L.S.	235.28	1 item	232.13	100.00%	
Monitoring of dredging and re-siltation rate (Pre-dredging & Post-Dredging survey, computation of dredging volume)	L.S.	50.00	1 item	48.77	100.00%	
Honorarium/Fee/Remuneration (for PSC, PIC, TEC, etc.)	L.S.	10.00	1 item	8.48	100.00%	
Mid-term Evaluation	L.S.	9.83	1 item	9.83	100.00%	
Survey & Investigation	L.S.	20.00	1 item	18.00	100.00%	
Miscellaneous Expenditure (Purchase of Mouza Map, Removal of Electric pole, Consultation fee for Land scaping design etc.)	L.S.	7.00	1 item	7.00	100.00%	
a2. Repair, Maintenance & Rehabilitation						
Repair & Maintenance of Vehicles	L.S.	8.00	1 item	6.57	100.00%	
Rehabilitation of Office Building & Inspection Bungalow	L.S.	25.00	1 item	24.21	100.00%	
Sub Total (a):		421.08		408.94	100.00%	
Capital Component (b):						
b1. Acquisition of Assets						
4-wheel Drive Jeep (not more than 2500 CC, 5 Doors, Made by Pragati) 1 nos.	Nos	59.65	1	59.65	1	
Motor Cycle (150 CC)	Nos	9.68	4	9.68	4	
Supply of Survey Instrument-2 nos GPS, 1 No. leveling machine & 1 No. total station survey machine.	Nos	6.98	4	6.98	4	
Brand Computer with Laser Printer 5nos. Multimedia Projector -1 no.	Nos	4.75	Computer-5 Nos Projector- 1 Nos	4.75	Computer-4 Nos. Projector- 1 Nos	
Photocopier Machine	Nos	2.99	2	2.99	2	
Office Furniture	LS	4.98	1 item	4.98	1 item	
Sub Total (b1):		89.03		89.03	100.00%	
b2. Construction of works:						

Items of work as per RDPP	Unit	Target (as per RDPP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
Dredging of Bhairab River (4 km, 378104.500 cum)	km/lac cum	914.45	4.000 (378104.500)	647.44	4.000 (378104.500)	
Re-excavation of Bhairab River by Excavator (92 km, 9112556.78 cum)	km/lac cum	19024.20	92.000 (9112556.78)	16476.36	92.000 (9112556.78)	
Excavation of Upper-Bhairab (Linkage with Mathabhanga):						
Re-excavation of Upper Bhairab River (20.925 km, 2379935.17 cum)	km/lac cum	4148.87	20.925 (2379935.17)	2327.19	20.925 (2379935.17)	
Re-excavation of Khal :						
i) Daitala Khal 22.700 km, 994270.60 cum (by Excavator)	km/lac cum	1237.89	22.700 (994270.60)	1027.40	22.700 (994270.60)	
ii) Four small khals 3.800 km, (Chaugacha khal-1.200 Km, Sahabchpur khal-1.150 Km, Kacharibari khal-0.950 Km and Satta Ram khal-0.500 Km) 35556.23 cum by excavator	km/lac cum	43.62	3.800 (35556.23)	43.62	3.800 (35556.23)	
Maintenance of Dredging	LS	5.00	1 item	0.00	-	The dredging package of Bhairab River from km 92.00 to km 96.00 was completed by the end of June, 2022. After the dredging work, no significant siltation was observed during this short period of time. That's why maintenance dredging work was not done.
Construction of walkway -3.1 km	km	2018.61	3.100 (100.00%)	1883.29	3.100 (100.00%)	
O&M During Construction	LS	10.00	1 item	9.91	1 item	
Sub Total (b2):		27402.64		22415.21	100.00%	
(b1+b2) Sub Total (b)		27912.75		22504.24	100.00%	
Physical Contingency (c)						
Price Contingency (d)						
(a+b+c+d) Total:		27912.75	100.00%	22913.18	100.00%	----

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
AKM Waheed Uddin Chowdhury Addl. Chief Engineer 56500-74400 (3 rd Grade)	Full	-	Yes	14-12-2016	03-12-2017	-
Md. Lutfor Rahman Addl. Chief Engineer 56500-74400 (3 rd Grade)	Full	-	Yes	03-12-2017	19-02-2019	-
Md. Siddiqui Rahman Addl. Chief Engineer 56500-74400 (3 rd Grade)	Full	-	Yes	19-02-2019	12-02-2020	-
Syed Hasan Imam Peng Superintending Engineer 50000-71200 (4 th Grade)	Full	-	Yes	07-06-2020	23-01-2021	-
Md. Rafiq Ullah Addl. Chief Engineer 56500-74400 (3 rd Grade)	Full	-	Yes	16-02-2021	14-09-2021	-
A K M Tahmidul Islam Addl. Chief Engineer 56500-74400 (3 rd Grade)	Full	-	Yes	08-11-2021	01-01-2023	-
Pijush Krishna Kundu Superintending Engineer 50000-71200 (4 th Grade)	Full	-	Yes	08-02-2023	Till	-

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
Jeep (4 WD, 5 Doors, 2500cc) Made by Pragati.	1 Nos.	06-12-2018	-	06-12-2018		Being used for O&M of Project area by concerned Executive Engineer. Registration No-Jashore-Gha-11-0096
Motor Cycle	4 Nos	17-02-2017	-	21-06-2017	-	Registration No. Jessore - La-12-3867. Jessore -La-12-3868. Jessore -La-12-3869. Jessore -La-12-3870. Being used for O&M of Project area by concerned Section Officers.

08. Procurement of Goods, Works and Consultancy Service.

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

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/ Proposal Cost (in lakh Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per DPP/ RDPP	Contracted Value	Invitation date	Contract signing/L.C opening date	As per Contract	Actual
1	2	3	4	5	6	7
Revised Work order as post factor for Re-excavation of Bhairab River from km 0.000 to km 6.000 = 6.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jashore O&M Division during the year 2018-19 & 2019-20.(Package No. Bhairab/Jess/W-1/Lot-1/2018-19, Id no-273762)	667.74 496.60	443.22	17-01-2019	18-03-2019	02-05-2020	02-05-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 6.000 to km 12.000 = 6.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jessore O&M Division during the year 2018-19. (Package No.-e-TENDER-Bhairab/Jess/W-1/Lot-02/2018-19, Id no-237363)	713.05 550.50	501.29	17-01-2019	18-03-2019	01-05-2020	01-05-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 12.00 to km 15.00 = 3.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jashore O&M Division during the year 2018-19 (Package No.-e-TRNDER-Bhairab/Jess/W-2/Lot-01/2018-19).	510.18 252.90	224.80	26-08-2018	02-12-2018	26-06-2019	30-11-2019
Revised Work order as post factor for Re-excavation of Bhairab River from km 15.00 to km 18.00 = 3.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jashore O&M Division during the year 2018-19.(Package No.-e-TENDER-Bhairab/Jess/W-2/Lot-02/2018-19. Id No-273764)	518.20 369.40	341.82	17-01-2019	18-03-2019	12-05-2020	12-05-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 18.00 to km 21.00 = 3.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jashore O&M Division during the year 2018-19 & 2019-20 (Package No.-e-TENDER-	570.00 396.50	363.55	17-01-2019	18-03-2019	02-05-2020	02-05-2020

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/ Proposal Cost (in lakh Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per DPP/ RDPP	Contracted Value	Invitation date	Contract signing/L.C opening date	As per Contract	Actual
1	2	3	4	5	6	7
Bhairab/Jess/W-3/Lot-01/2018-19. Id No-273766).						
Revised Work order as post factor for Re-excavation of Bhairab River from km 21.000 to km 24.000 = 3.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jessore O&M Division during the year 2018-19. (Package No.-e-TENDER- Bhairab/Jess/W-3/Lot-02/2018-19, Id no-230425).	598.16 382.00	354.47	26-08-2018	02-12-2018	26-06-2020	26-06-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 24.00 to km 27.00 = 3.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jashore O&M Division during the year 2018-19. (Package No.-e-TENDER- Bhairab/Jess/W-4/Lot-01/2018-19, Id No-273767)	702.265 444.00	415.25	17-01-2019	20-03-2019	09-05-2020	09-05-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 27.000 to km 30.000 = 3.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jessore O&M Division during the year 2018-19. (Package No.-e-TENDER- Bhairab/Jess/W-4/Lot-02/2018-19, Id no-273768).	702.27 416.40	393.50	17-01-2019	18-03-2019	01-05-2020	01-05-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 30.000 to km 32.000 = 2.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jessore O&M Division during the year 2018-19. (Package No.-e-TENDER- Bhairab/Jess/W-5/Lot-01/2018-19, Id no-230419).	450.10 321.50	301.12	26-08-2018	02-12-2018	26-06-2020	26-06-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 32.000 to km 34.000 = 2.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin(1st Revised)” under Jessore O&M Division during the year 2018-19. (Package No.-e-TENDER-	450.10 308.90	288.37	26-08-2018	02-12-2018	26-06-2020	26-06-2020

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/ Proposal Cost (in lakh Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per DPP/ RDPP	Contracted Value	Invitation date	Contract signing/L.C opening date	As per Contract	Actual
1	2	3	4	5	6	7
Bhairab/Jess/W-5/Lot-02/2018-19, Id no-230420).						
Revised Work order as post factor for Re-excavation of Bhairab River from km 34.000 to km 36.000 = 2.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jashore O&M Division during the year 2018-19 & 2019-20. (Package No. Bhairab/Jess/W-5/Lot-3/2018-19, Id no-273769)	450.04 296.00	275.61	17-01-2019	19-03-2019	07-02-2020	10-05-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 36.000 to km 38.000 = 2.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jashore O&M Division during the year 2018-19 & 2019-20. (Package No. Bhairab/Jess/W-6/Lot-1/2018-19, Id no-273770)	445.10 325.20	304.81	17-01-2019	18-03-2019	02-05-2020	02-05-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 38.00 to km 40.00 = 2.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin(1st Revised)” under Jashore O&M Division during the year 2018-19. (Package No.-e-TENDER- Bhairab/Jess/W6/Lot-02/2018-19, Id No-273771).	445.13 342.40	320.12	17-01-2019	21-03-2019	12-05-2020	12-05-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 40.000 to km 42.000 = 2.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jessore O&M Division during the year 2018-19. (Package No.-e-TENDER- Bhairab/Jess/W-6/Lot-03/2018-19, Id no-230424).	445.15 289.20	267.19	12-08-2018	18-11-2018	26-06-2019	11-01-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 42.000 to km 44.500 = 2.500 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jashore O&M Division during the year 2018- 19.(Package No. Bhairab/Jess/W-	493.00 384.30	356.29	17-01-2019	21-03-2019	09-05-2020	09-05-2020

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/ Proposal Cost (in lakh Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per DPP/ RDPP	Contracted Value	Invitation date	Contract signing/L.C opening date	As per Contract	Actual
1	2	3	4	5	6	7
7/Lot-01/2018-19, Id no-273772)						
Revised Work order as post factor for Re-excavation of Bhairab River from km 44.500 to km 47.000 = 2.500 km. in C/W " Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)" under Jessore O&M Division during the year 2018-19. (Package No.-e-TENDER-Bhairab/Jess/W-7/Lot-02/2017-18, ID No-230426).	493.20 391.00	367.56	12-08-2018	18-11-2018	27-06-2019	11-04-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 47.00 to km 50.00 = 3.000 km. in C/W " Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised) " under Jashore O&M Division during the year 2018-19. (Package No.-e-TENDER-Bhairab/Jess/W-7/Lot-03/2018-19. Id No-230427).	592.00 493.00	467.92	12-08-2018	18-11-2018	26-06-2019	31-05-2023
Re-excavation of Bhairab River from km 50.000 to km 54.000 total 4.00 km in C/W "Drainage Improvement and Sustainable water management of Bhairab River Basin (1st revised)" under Jashore O&M Division, BWDB, Jashore during the year 2017-18	831.00 865.57	865.56	20-09-2017	06-12-2017	12-06-2019	Cancelled
Re-excavation of Bhairab River from km 54.00 to km 58.00 = 4.00 km. in C/W "Drainage Improvement and sustainable water management of Bhairab River Basin" under Jashore O&M Division during the year 2018-19 & 2019-20. (Package no- e-Tender Bhairab-Jess-w-13/2018-19, Tender ID No-326836)	830.77 1166.27	1116.27	29-05-2019	05-08-2019	20-06-2020	28-02-2023
Re-excavation of Bhairab River from km 58.000 to km 61.000 total 3.00 km in C/W "Drainage Improvement and Sustainable water management of Bhairab River Basin" under Jashore O&M Division, BWDB, Jashore during the year 2017-18	700.35 1400.00	797.56	24-07-2017	06-12-2017	18-06-2019	Cancelled
Re-excavation of Bhairab River from km 61.000 to km 64.000 total 3.00 km in C/W "Drainage Improvement and Sustainable water management of Bhairab River Basin (1st revised)" under Jashore O&M Division, BWDB, Jashore during the year 2017-18	714.35 793.96	762.09	24-07-2017	06-12-2017	18-06-2019	Cancelled

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/ Proposal Cost (in lakh Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per DPP/ RDPP	Contracted Value	Invitation date	Contract signing/L.C opening date	As per Contract	Actual
1	2	3	4	5	6	7
Revised Work order as post factor for Re-excavation of Bhairab River from km 64.000 to km 68.000 = 4.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jessore O&M Division during the year 2018-19. (Package No.-e-TENDER-Bhairab/Jess/W-4/2017-18, Id no-141886).	936.91 1057.50	799.09	28-11-2017	04-03-2018	23-06-2019	17-04-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 68.00 to km 72.00 = 4.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised) ” under Jashore O&M Division during the year 2018-19. (Package No.-e-TENDER-Bhairab/Jess/W5/2017-18,).	936.09 1100.00	1089.85	28-11-2017	04-03-2018	23-06-2019	17-04-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 72.000 to km 74.500 = 2.500 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jessore O&M Division during the year 2017-18 & 2018-19. (Package No.-e-TENDER-Bhairab/Jess/W-6/Lot-01/2017-18, Id no-141888).	610.75 755.00	734.69	28-11-2017	08-03-2018	22-06-2019	26-04-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 74.500 to km 77.000 = 2.500 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jashore O&M Division during the year 2018-19. (Package No.-e-TENDER-Bhairab/Jess/W6/Lot-02/2017-18).	614.75 756.00	713.59	28-11-2017	08-03-2018	22-06-2019	26-04-2020
Revised Work order as post factor for Re-excavation of Bhairab River from km 77.000 to km 80.000 = 3.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jessore O&M Division during the year 2018-19 (Package No.-e-TENDER-Bhairab/Jess/W-8/2018-19, Id no-278119).	735.35 858.50	833.39	27-01-2019	03-04-2019	24-05-2020	27-05-2021

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	As per DPP/ RDPP	Contracted Value	Invitation date	Contract signing/L.C opening date	As per Contract	Actual
1	2	3	4	5	6	7
Revised Work order as post factor for Re-excavation of Bhairab River from km 80.000 to km 83.000 = 3.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jashore O&M Division during the year 2018-19. (Package No. Bhairab/Jess/W-9/Lot-01/2018-19, Id no-304310)	810.70 803.00	800.88	17-01-2019	17-06-2019	18-06-2020	29-06-2021
Revised Work order as post factor for Re-excavation of Bhairab River from km 83.00 to km 86.00 = 3.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jashore O&M Division during the year 2018-19. (Package No.-e-TENDER-Bhairab/Jess/W9/Lot-02/2018-19, Id no-278120).	826.70 923.55	897.20	27-01-2019	24-04-2019	15-06-2020	23-06-2021
Revised Work order as post factor for Re-excavation of Bhairab River from km 86.000 to km 89.000 = 3.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jessore O&M Division during the year 2018-19. (Package No.-e-TENDER-Bhairab/Jess/W-10/Lot-01/2018-19, Id no-278121).	889.30 1019.50	990.21	27-01-2019	24-04-2019	12-06-2020	10-06-2021
Revised Work order as post factor for Re-excavation of Bhairab River from km 89.00 to km 92.00 = 3.000 km. in C/W “ Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)” under Jashore O&M Division during the year 2018-19 (Package No.-e-TENDER-Bhairab/Jess/W-10/Lot-02/2018-19. Id No-278122).	889.34 1065.55	1041.44	27-01-2019	24-04-2019	12-06-2020	10-06-2021
Re-excavation of Bhairab River from km. 92.000 to km. 96.000 total 4.000 km. by dredger in c/w Drainage Improvement and sustainable water management of Bhairab River Basin project under Jashore O&M Division BWDB Jashore during the year 2019-20 (Package no. e-TENDER : Bhairab/Jess/W-01/2019-20 & Tender ID : 354980)” Notification of award No-990, Dated- 28-11-2019	1392.36 914.45	823.00	08-09-2019	15-12-2019	04-05-2021	30-11-2022

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/ Proposal Cost (in lakh Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per DPP/ RDPP	Contracted Value	Invitation date	Contract signing/L.C opening date	As per Contract	Actual
1	2	3	4	5	6	7
Remaining Works of Re-excavation of Bhairab River from km 50.000 to km 54.000 total 4.00 km in C/W "Drainage Improvement and Sustainable water management of Bhairab River Basin (1st revised)" under Jashore O&M Division, BWDB, Jashore during the year 2021-22" (Package No- Jess/W2/2021-22, Tender Id no- 599016)	865.57	164.10	18-08-2021	19-10-2021	20-06-2022	20-06-2022
Remaining Works of Re-excavation of Bhairab River from km 58.000 to km 61.000 total 3.00 km in C/W "Drainage Improvement and Sustainable water management of Bhairab River Basin (1st revised)" under Jashore O&M Division, BWDB, Jashore during the year 2021-22 (Package No- Jess/W1/Lot-1/2021-22, Tender Id-633872)	1400.00	1045.35	30-11-2021	23-01-2022	30-06-2022	30-06-2022
Remaining Works of Re-excavation of Bhairab River from km 61.000 to km 64.000 total 3.00 km in C/W "Drainage Improvement and Sustainable water management of Bhairab River Basin (1st revised)" under Jashore O&M Division, BWDB, Jashore during the year 2021-22 (Package No- Jess/W1, Lot-2/2021-22, Tender Id-611040)	793.96	413.32	15-09-2021	15-12-2021	30-06-2022	30-06-2022
Re-excavation of Daitala Khal from km 5.00 to km 10.00 = 5.000 km. in C/W "Drainage Improvement and sustainable water management of Bhairab River Basin (1st Revised)" under Jashore O&M Division during the year 2018-19. (Package No- Bhairab/Jess/W-11/2018-19)	540.12 343.06	427.50	05-12-2018	23-01-2019	18-06-2020	18-06-2020
Re-excavation of Daitalakhal from km-20.000 to km-22.700 total 2.700 km in C/W "Drainage Improvement and sustainable water management of Bhairab River Basin project (1st Revised)" under Jashore O&M Division, BWDB, Jashore during the year 2020-21. (Package No- Jess/W5/2020-21, Tender Id-590966)	280.50	113.42	24-06-2021	04-11-2021	30-06-2022	30-06-2022

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/ Proposal Cost (in lakh Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per DPP/ RDPP	Contracted Value	Invitation date	Contract signing/L.C opening date	As per Contract	Actual
1	2	3	4	5	6	7
Re-excavation of Upper Bhairab river from km 12.075 to km 18.000 total 5.925 km in C/W "Drainage Improvement and sustainable water management of Bhairab River Basin project (1st Revised)" under Jashore O&M Division, BWDB, Jashore during the year 2020-21. (Package No- Jess/W1/2020-21, Tender Id-590963)	1346.35	911.35	24-06-2021	04-11-2021	30-06-2022	30-06-2022
Re-excavation of Upper Bhairab river from km 18.00 to km 23.000 total 5.00 km in C/W "Drainage Improvement and sustainable water management of Bhairab River Basin project (1st Revised)" under Jashore O&M Division, BWDB, Jashore during the year 2020-21. (Package No- Bhairab/Jess/W-2/2021-22)	871.94	664.04	24-06-2021	04-11-2021	30-06-2022	30-06-2022
Re-excavation of Upper Bhairab river from km 23.00 to km 28.000 total 5.000 km in C/W "Drainage Improvement and sustainable water management of Bhairab River Basin project (1st Revised)" under Jashore O&M Division, BWDB, Jashore during the year 2020-21. (Package No- Jess/W3/2020-21, Tender Id-590964)	1138.31	496.14	24-06-2021	04-11-2021	30-06-2022	30-06-2022
Re-excavation of Upper Bhairab river from km 28.00 to km 33.000 total 5.000 km in C/W "Drainage Improvement and sustainable water management of Bhairab River Basin project (1st Revised)" under Jashore O&M Division, BWDB, Jashore during the year 2020-21. (Package No- Jess/W4/2020-21, Tender Id-590965)	792.27	527.03	24-06-2021	04-11-2021	30-06-2022	30-06-2022
Construction of walkway along the right bank of Bhairab river from km 45.600 to km 46.900 total 1.300 km in C/W "Drainage Improvement and Sustainable water management of Bhairab River Basin (1st revised)" under Jashore O&M Division, BWDB, Jashore during the year 2021-22 (Package No- Jess/W8/2021-22, Tender Id-599019)	553.70	498.32	18-08-2021	14-11-2021	14-05-2022	30-06-2023
Construction of walkway along the right bank of Bhairab river in between km 56.350 to km 61.875 total 1.000 km in C/W "Drainage Improvement and Sustainable water management of Bhairab River Basin	425.70	398.88	18-08-2021	14-11-2021	30-06-2022	30-06-2023

Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/ Proposal Cost (in lakh Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per DPP/ RDPP	Contracted Value	Invitation date	Contract signing/L.C opening date	As per Contract	Actual
1	2	3	4	5	6	7
(1st revised)" under Jashore O&M Division, BWDB, Jashore during the year 2021-22 (Package No-Jess/W10/2021-22, Tender Id No-599021).						
Construction of walkway with Beautification along the right bank of Bhairab river from km 57.350 to km 57.550 total 0.200 km in C/W "Drainage Improvement & Sustainable Water management of Bhairab River basin (1st Revised)" under Jashore O & M division BWDB Jashore during the year 2021-22. (Package No-Jess/W9/2020-21, Tender Id-680972).	745.00	819.13	05-04-2022	31-05-2022	30-06-2023	30-06-2023

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	-	-	-	-
b) Local	-	-	-	-

09. Construction/Erection/Installation Tools & Equipment:

Description of items	Quantity (As per RDPP)	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
Desktop Computer with Laser Printer	4 Sets	16-03-2017	Transferred to i) Office of CE, SW Zone, BWDB, Khulna- 1 set on 16-06-2019. ii) Planning wing-6 , MoWR-1 computer on 29-08-2021. iii) Jashore O&M Division, BWDB, Jashore on 03/07/2022	-	2 computer & 3 Printer	Used by Manirampur, Jashore & Keshabpur O&M Sub-division office for official works.
Multimedia Projector	1 nos.	16-03-2017	Transferred to Jashore O&M Division, BWDB, Jashore on 03/07/2022		1 nos.	Used by Jashore O&M Division office for official purpose.
Photocopy Machine	2 nos.	18-03-2017	Transferred to i) Office of CE, SW Zone, BWDB, Khulna- 1 set on 16-06-2019. ii) Planning wing-4 , MoWR-1 set on 06-06-2017		-	
GPS	2 nos.	16-03-2017 & 26-01-2018	Transferred to Jashore O&M Sub-division, BWDB, Jashore on 05-02-2018		2 nos	Used by Jashore O&M Division office for survey purpose.
Leveling Machine	1 nos.	16-03-2017	Transferred to Jashore O&M Sub-division, BWDB, Jashore on 05-02-2018		1 nos.	Used by Jashore O&M Division office for survey

Description of items	Quantity (As per RDPP)	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
						purpose.
Total Station	1 nos.	16-03-2017	Transferred to Jashore O&M Sub-division, BWDB, Jashore on 05-02-2018		1 nos.	Used by Jashore O&M Division office for survey purpose.

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 DPP			
	Total	GOB	Others	Physical %	Total	GOB	Others	Physical %
1	2	3	4	5	6	7	8	9
2016-17	4412.50	4412.50	-	16.174%	44.11	44.11	-	0.158%
2017-18	9777.50	9777.50	-	35.839%	1919.45	1919.45	-	6.88%
2018-19	8301.36	8301.36	-	30.428%	4185.86	4185.86	-	14.996%
2019-20	3493.38	3493.38	-	12.805%	3980.70	3980.70	-	14.261%
2020-21	1296.80	1296.80	-	4.753%	10932.38	10932.38	-	39.17%
2021-22	-	-	-	-	6850.25	6850.25	-	24.542%
2022-23	-	-	-	-	-	-	-	-
Total	27281.54	27281.54	-	100.00%	27912.75	27912.75		100.00%

01. (b) Revised ADP allocation and progress:

(In lakh Taka)

Financial Year	Allocation & Target				Taka Release	Expenditure & Physical Progress			
	Total	GOB	Others	Physical %		Total	GOB	Others	Physical %
1	2	3	4	5	6	7	8	9	10
2016-17	100.00	100.00	-	0.36%	100.00	26.14	26.14	-	0.21%
2017-18	2272.00	2272.00	-	9.00%	2272.00	1937.42	1937.42	-	7.79%
2018-19	5000.00	5000.00	-	18.00%	4200.00	4185.86	4185.86	-	20.00%
2019-20	4000.00	4000.00	-	30.64%	4000.00	3980.70	3980.70	-	30.00%
2020-21	6500.00	6500.00	-	7.00%	3999.82	3997.66	3997.66	-	7.00%
2021-22	5500.00	5500.00	-	20.00%	5500.00	5499.93	5499.93	-	20.00%
2022-23	3500.00	3500.00	-	15.00%	3500.00	3285.47	3285.47	-	15.00%
Total	26872.00	26872.00		100.00%	23571.82	22913.18	22913.18	-	100.00%

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT:

Sl. No.	Objectives as per DPP	Actual Achievement	Reason for shortfall, if any
1	2	3	4
01	To increase drainage capacity of Bhairab River and its adjacent khals through re-excavation and dredging. It will benefit net 22000.00 ha area of Chaugacha, Jashore Sadar, Bagharpara, Abhaynagar Upazilla.	After re-excavation of 96.00km Bhairab river and 26.70km adjacent khals, the drainage capacity of Bhairab river and khals is increased in the project area.	No shortfall
02	To restore navigation draft of Bhairab River.	After re-excavation of 96.00km Bhairab river, the navigation of Bhairab river is increased. But there are 54 narrow bridges and culverts over the 96.00 km of Bhairab River, causing extreme obstruction to water flow.	No shortfall
03	To restore up-land flow connection in-between Mathabanga and upper Bhairab river.	Feasibility study for establishing the linkage of the Upper Bhairab river with Mathabanga river to restore up-land has been done by IWM. As per recommendation of the study, Chuadanga O&M Division, BWDB, Chuadanga is preparing a Development Project Proposal (DPP) in this regard.	No shortfall
04	To provide extended irrigation facilities as well as fisheries development by the re-excavation of Bhairab River and re-excavation of alternative drainage roots & canals.	The local people are using the river water for their household and agricultural purposes. Fish production has also increased due to increase in river water. Ground water is being recharged as the river has water throughout the year. So, availability of water has become easier due to the increase the ground water level.	No shortfall

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 st year of operation at full capacity (or during real production for newly completed project)
1	2	3	4
Improved capacity of Bhairab river and extended irrigation facilities leads to following benefits in the project area:			
Incremental cropping intensity	%	30.95	30.95
Incremental paddy production	mt.	55.999	55.999
Incremental other crop production	mt.	40.957	40.957
Incremental benefit from cultivation	Lakh tk.	8810.93	8810.93
Benefit due to improvement of navigation facilities	Lakh tk.	4000.00	4000.00

02. Cost/Benefit:

Item	Estimated	Actual
(1) Benefit cost of the project (i) Financial (ii) Economic	1.80:1.00	It will be evaluated later by concern directorate of BWDB & IMED.
(2) Internal rate of return (i) Financial (ii) Economic	29.58%	

(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
Ministry/Agency:			
Mr. Zaheed Farooque, MP Hon'ble Minister of State, MoWR.	02-01-2020	Slow progress	Instructed to expedite works & to complete within the stipulated time.
Mr. Swapan Bhattacharjee, MP Hon'ble Minister of State, LGRD.	02-01-2020	Slow progress	Instructed to expedite works & to complete within the stipulated time.
Mr. Md. Mahfuzur Rahman Director General, BWDB.	02-01-2020	Slow progress	Instructed to expedite works & to complete within the stipulated time.
Mr. Jyoti Prasad Ghosh Additional Director General (West Region), BWDB.	18-03-2022	No major problems identified.	Instructed to expedite works as per design and specifications within the stipulated time.
Mr. Md. Habibur Rahman Additional Director General (West Region), BWDB.	15-02-2020	Slow progress	Instructed to expedite works & to complete within the stipulated time.
Mr. Md. RokonUd-Doula Addl. Secretary (Dev), MoWR.	Several times	No major problems identified.	Instructed to expedite works as per design and specifications within the stipulated time.
Mr. MD. Mothahar Hossain Joint Secretary (Admin) MoWR.	22-09-2019	Overall progress is satisfactory.	Instructed to plant trees in completed packages and instructed to complete the works within stipulated time.
Alam ara Begum Addl. Secretary (Admin) MoWR	23-01-2022 & 09-02-2022	Slow progress	Instructed to complete remaining packages as per design and specifications within the stipulated time.
Syeda Salma Jafrin Addl. Secretary (Admin), MoWR.	17-06-2022	Slow progress	Instructed to complete remaining packages as per design and specifications within the stipulated time.
Khairun Nahar Deputy Secretary, MoWR.	13-01-2023	No major problems identified.	Instructed to complete remaining packages as per design and specifications within the stipulated time.
Mr. Dr. Md. Kausar Ahmed Member (Secretary) General Economics Department, Planning Commission.	23-03-2022	No major problems identified.	Instructed to complete remaining packages as per design and specifications within the stipulated time.

Name & Designation of the inspecting official	Date of inspection	Identified Problems	Recommendations
1	2	3	4
Mr. Md Mahmud Hasan Deputy Secretary, MoWR.	05-03-2021	Slow progress	Instructed to complete remaining packages as per design and specifications within the stipulated time.
Mr. Md Shafiqul Islam Assistant Secretary, MoWR.	02-01-2020	Slow progress	Instructed to expedite works & to complete within the stipulated time.
Mr. Md. Hasan Imam PEEng. Superintending Engineer Jashore O&M Circle BWDB, Khulna.	14-02-2020	Slow progress	If the progress is not increased in the next 02 weeks, the work cancellation letter should be sent as per the rules of PPR/2008 and section 89.1 of PW3.
Mr. Md. Lutfor Rahman Chief Engineer SWZ, BWDB, Khulna.	03-02-2019	Slow progress	It was asked to take urgent necessary measures as per the terms of the tender including cancellation of the work.
Mr. Siddiqur Rahman Chief Engineer SWZ, BWDB, Khulna.	Several times	No major problems identified except slow progress.	Instructed to complete remaining packages as per design and specifications within the stipulated time.
Mr. A.K.M Tahmidul Islam Chief Engineer SWZ, BWDB, Khulna.	Several times	No major problems identified except slow progress.	Instructed to complete remaining packages as per design and specifications within the stipulated time.
Mr. Md. Shafi Uddin Chief Engineer SWZ, BWDB, Khulna.	Several times	No major problems identified except slow progress.	Instructed to complete remaining packages as per design and specifications within the stipulated time.
Pijush Krishna Kundu Superintending Engineer Jashore O&M Circle BWDB, Khulna.	Several times	No major problems identified except slow progress.	Instructed to complete remaining packages as per design and specifications within the stipulated time.
IMED			
Mr. Khalil Ahmed Director, IMED.	25-26 December 2020& 20-05-2022	(1) Quality of project work is satisfactory but progress is not satisfactory. (2) Dredging works, Walkway construction work, Mid-Term Evaluation, Monitoring of dredging and re-siltation rate works are not done yet. (3) Huge Water hyacinth congestion in Bhairab river. (4) Numerous bridges over Bhairab river creates bottle-neck situation in Bhairab	(1) Supervision should be strengthened including quality assurance as per the design and specification of the ongoing work of the project. (2) All the uncompleted packages need to be completed within stipulated time. (3) Water hyacinth need to be cleared. (4) External Audit needs to be done. (5) Post-work should be taken during dry season.

Name & Designation of the inspecting official	Date of inspection	Identified Problems	Recommendations
1	2	3	4
		river.	
Mohammad Jahangir Kabir Director General Sector-4, IMED.	05-02-2019 to 10-02-2019	(1) Lateral Drainage problem needs to be addressed. (2) Several Old bridges over Bhairab river are hindrance to navigation.	(1) Eviction works to remove illegal structure need to be strengthened. (2) Steps should be taken for proper spoil Earth Management. (3) Ensure Smooth dressing, vegetation and afforestation after excavation of river.
Sheikh Md. Abdur Rahman Deputy Director, Planning Commission.	20-12-2017 25-08-2018 15-01-2019 & 18-10-2019	(1) Spoil earth management is not satisfactory. (2) Bhairab river water is highly polluted as several drains are directly opened in Bhairab river.	(1) Steps should be taken to include smooth dressing, vegetation and afforestation along the riverbank and embankment in DPP. (2) Steps should be taken to reduce the pollution of Bhairab river. (3) Steps should be taken to increase the aesthetic view of the river by constructing Ghat, sitting arrangement in suitable places along the river. (4) Permanent Signboards of project packages in suitable places need to be installed.
Others			

02. Auditing during and after Implementation:

2.1. Internal Audit:

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

2.2. External Audit:

Period of Audit	Date of submission of Audit Report	Major findings/ objections	Whether objections resolved or not
1	2	3	4
2016-2018	10/04/2019	Revenue loss of Tk.50,32,375/- (Fifty lakh thirty two thousand three hundred Seventy five) due to non-deduction of vat on insurance premium of contract price of civil works.	Objection resolved
		Irregular approval of tenders of Tk. 13,10,95,000/- (Thirteen crore ten lakh ninety five thousand) exceeding the approved cost in DPP without prior approval of planning commission.	Answer has been submitted through competent authority and resoluteness of the objection is under process.
		Failed to achieve physical progress of 54.441% by accomplishing 28% physical progress by June/2019 instead of 82.411% as indicated in DPP.	Answer has been submitted through competent authority and resoluteness of the objection is under process.

2018-29	15/03/2020	Loss of Tk. 2,92,52,311/- due to non-deduction of liquidity damage (LD) from the contractors who failed to perform the work within the stipulated time.	Answer has been submitted through competent authority and resoluteness of the objection is under process.
2019-2021	01/11/2021	Financial loss of Tk.705866/- due to payment of bills to contractors without deducting the stipulated amount for insurance premium on the contract price.	Answer has been submitted through competent authority and resoluteness of the objection is under process.
		Financial loss of Tk.1,64,60,233/- due to payment of bills without deducting liquidity damage (LD) applicable to the contractors who failed to perform the work within the stipulated time.	Answer has been submitted through competent authority and resoluteness of the objection is under process.
		Financial loss to the board of Tk. 20,22,228/- due to payment of additional bill for the excavated soil exceeding the amount received by the Task Force.	Answer has been submitted through competent authority and resoluteness of the objection is under process.
2021-2022	26/09/2022	Revenue loss to Government of Tk. 10,45,447/- (ten lakh forty five thousand four hundred and forty seven) on account of vat on insurance premium due to non-obtaining of risk insurance by the contractors as mentioned in the agreement.	Answer has been submitted through competent authority and resoluteness of the objection is under process.
		Irregular expenditure of Tk. 2,65,000/- (two lakh sixty five thousand) beyond the ceiling limit due to purchase of car in disregard of the instructions of the Ministry of Finance.	Answer has been submitted through competent authority and resoluteness of the objection is under process.
		Financial loss of tk.Tk.59,96,181/- due to non-deduction of liquidity damage (LD) from the contractors who failed to perform the works within the stipulated time.	Answer has been submitted through competent authority and resoluteness of the objection is under process.

G. DESCRIPTIVE REPORT

1.1 Background

The Bhairab river basin is located in the southwest coastal part of Bangladesh, which is characterized by numerous morphologically active tidal rivers and creeks. River bed siltation, tidal and monsoon flooding, scarcity of water for surface irrigation, lack of navigation facilities are the typical problems in this area of the country.

The Bhairab river is a distributary of Mathabhanga-Kobadak river system. It flows through Jhenaidah, Jessore, Narail and Khulna districts connecting beels and haors of the region, finally it meets the Rupsa river. The upper and middle part of the river is locally known as Buri Bhairab which originates from Mathabhanga-Kobadak river system and meets at Afra khal and Bhairab river. The total length of this part is about 96km whereas the lower part of the river is known as Bhairab river falls into the Rupsa river and the total length of this part is about 40km. The Buri Bhairab is already silted up and there is no flow of water in this part of the river. On the other hand the navigable depth in the Bhairab river is quite good and that is why many cargos and ship, engine boats use this part of the river for commercial and domestic purpose. The average depth of this stretch of the river ranges from 4m PWD to 5m PWD. But there is almost no flow in the Buri Bhairab river. No ship or cargo enters in this river. Only local engine boat and small cargo vessel enters upto Basundia bazar during high tide.

With the growing population and the increasing demand for productive lands, attempts were made to develop low-lying lands subject to saline water intrusion for agricultural purposes. Accordingly, Bangladesh Water Development Board in the 60s had started to build a series of polders in the coastal area to prevent intrusion of saline water and to make the area free from the tidal and monsoon flooding. This was a follow up practice maintained by the erstwhile land lords. But in the recent years this region has been experiencing water-logging problem and navigation due to high rate of siltation in the peripheral rivers and internal drainage khals. This affects the normal social and economic activities of the people of the project area severely. The situation is also getting more deteriorated due to gradual decrease of upstream flow.

The Bhairab river used to serve multiple purposes of the local communities like transportation of agricultural goods, passenger boat plying between different locations, fisheries and irrigation development. Once Hisna-Mathabhanga-Upper Bhairab river system was the main source of fresh water supply into the Bhairab river. Due to cut-off of Hisna-Mathabhanga river from the Ganges over the years, the fresh water source is lost. The river stretch from Taherpur to Afraghat, known as Buri Bhairab river, has experienced huge sedimentation over the years. Currently the availability of freshwater and navigability have become major issues of restoring this river. There is huge potential to enhance the navigability and water availability of the river especially during dry season since plenty of non-saline water is available in the Bhairab river downstream of Afraghat. There has been huge demand of dredging of Buri Bhairab river from the different livelihood groups of the local communities as the restoration of the river will enable to enhancement of the socio-economic conditions of that area.

1.2 Justification/Adequacy:

The Bhairab river flows through Jessore, Jhenaidah, Narail and Khulna districts connecting beels and haors of the region and finally meets the Rupsa river. Sedimentation and encroachments are the main problems of the Buri Bhairab river that restricts the propagation of tide causing reduction of navigability and water availability eventually the water related facilities during dry season. The entire river stretch from Taherpur to Bashundia is silted up and encroached by local people at various locations. Other major causes of non-functioning of the river system are placement of fish trap, nets, construction of narrow bridge/culverts and putting cross dams. The Honorable Prime Minister of the People's Republic of Bangladesh committed to reduce the drainage congestion of the Bhairab River by re-excavating it and connected khals through a feasible project while visiting Jashore district on 27.12.2010.

An sustainable programme was needed to to be implemented to serve multiple purposes of the local communities like transportation of agricultural goods, passenger, boat plying between different locations, fisheries and irrigation development in a meaningful way. Dredging was evident to meet these requirements. Dredging requirement needs to meet the criteria of draining the design flood flow of the basin, water availability and navigation requirements of cargo vessels. Dredging was required to improve the navigability

of the channel and enhancement of water availability. However dredging would improve the drainage condition of the river and khals significantly. This project was formulated to implement 20.925 km re-excavation of Upper-Bhairab River, 96 km re-excavation of Bhairab River, 22.70 km re-excavation of Daitala Khal, 3.80 km re-excavation of four small Khals and 3.10 km of walkway construction work.

Bangladesh Delta Plan, BDP-2100 is a water centric, multi-sectorial, techno-economic long-term adaptive plan. BDP-2100 formulated as “Ensure long term water and food security, economic growth and environmental sustainability while effectively reducing vulnerability to natural disasters and building resilience to climate change and other delta challenges through robust, adaptive and integrated strategies, and equitable water governance.” There are six Goals to achieve the Delta Vision where Goal 2 “Enhance water security and efficiency of water usages”, Goal 3 “Ensure sustainable and integrated river systems and estuaries management” and Goal 6 “Achieve optimal and integrated use of land and water resources” are related to river basin management. So, in this context the completed project is significant.

Main objectives of the project are to provide flood control, drainage improvement, navigation improvement and extension of irrigation facilities as well as fisheries development by the re-excavation of Bhairab river, Connecting Upper Bhairab with Mathavanga/Hisna by re-excavating its missing link and re-excavation of connected drainage channels. Through the execution of these integrated water management program, crops losses as well as loss of properties, infrastructures and human sufferings will be reduced to a great extent by mitigating annual monsoon floods and also post monsoon drainage congestion will be removed in the project area which will contribute the poverty reduction strategy and environmental up gradation.

1.3. Objectives:

The main objective of the project is-

- To increase drainage capacity of Bhairab River and it's adjacent khals through re-excavation and dredging. It will benefit net 22000.00 ha area of Chaugacha, Jashore Sadar, Bagharpara, AbhaynagarUpazilla.
- To restore navigation draft of Bhairab River
- To restore up-land flow connection in-between Mathabhanga and upper Bhairab river.
- To provide extended irrigation facilities as well as fisheries development by the re-excavation of Bhairab River and re-excavation of alternative drainage roots & canals.

1.4. Project revision with reasons:

The DPP named “Drainage Improvement and Sustainable Water management of Bhairab River” duly approved by the ECNEC and circulated vide Ministry of Water Resources memo no 42,00,0000,042,014,009,15-213, Dated: 22.09.2016. As per approved DPP total cost was Tk. 27281.54 Lac and scheduled implementation period was from July 2016 to June 2021.

The main features of the project are excavation of Bhairab river by excavator-92.00 km, Dredging of Bhairab river at extreme downstream-4.00 km, Re-excavation of Daital khal-22.70 km and four small khals (Chaugachakhal, Sahabchpurkhal, Kacharibarikhil and Satta Ram khal)-3.80 km, Re-excavation of Upper Bhairab river-20.925 km and construction of walkway-3.10 km. After completing more than 50% of the total project work, based on field condition and survey, quantity and cost of remaining work required some changes to complete the whole work smoothly.

After approval of original DPP, based on actual field condition, morphological change, unforeseen situation and others, cost of re-excavation packages increased. Moreover, re-excavation work within the Jashore faced plenty of difficulties like continuous drainage of daily uses water to Bhairab river, river bed fully silted with slushy, bottle, waste, debris etc. Excavated earth management was also very difficult within the city. For this reason the packages within the city need variation accordingly cost also increases. Moreover, design of Upper Bhairab river got approval in October/2020. According to approved design, the estimated cost of Upper Bhairab river increased. For this reasons RDPP cost increases. RDPP cost also increase due to increase cost of Walkway with beautification work as per approved design and specification. On the other hand length of Walkway reduced due to shortage of sufficient land. According to field condition, total 3.10 km walkway with beautification work was finalized to be constructed along the both bank of Bhairab river within the Jashore City.

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

Bangladesh is a densely populated with poor natural resources based country. Lack of industrialization and vulnerability of natural disaster, like flood, cyclone etc, made Bangladesh one of the poorest countries of the world. The major problem responsible for poverty includes high level of landlessness, unemployment, illiteracy and malnutrition. The population of the project area is very dense (about 750 per square kilometer) and landless population is about 30%. Socio-economic development of the people through agricultural development is the main objective to alleviate poverty of the area. The proposed project will have remarkable positive impacts on socio-economic and environmental sector. The project will create new employment through improved agricultural productivity, enhancement of fisheries and forestry activities, trade and employment for construction works and O&M activities.

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

◆ Project Identification:

The local people and their elected representatives in association with Bhairab revival movement group created strong movement and demonstration for alleviation and relief of sufferings of the people from the inundation problem. The problem and suffering was focused in the electronic and print media to draw attention of the concern agencies and policy makers. As per demand of the local people, their elected representatives and MPs asked the BWDB officials to take care of this issue i.e. to solve the various problem of the Bhairab River Basin. The Honorable Prime Minister, the People's Republic of Bangladesh has committed this project for implementation while visiting Jessore district on 27.12.2010.

◆ Project Preparation:

The issue was duly emphasized and it was decided in the higher policy level to conduct feasibility study prior to its implementation. Accordingly, full-scale feasibility study was carried on by the engagement of local consulting firms IWM (Institute of Water Modeling). The IWM officials conducted field investigations, surveys, collected relevant data/information from various sources. IWM carried-out surveys & preliminary model simulation and discussed with BWDB concerned design engineers. Based on these, the consultant identified causes of the problems and recommended Solutions in the Final Report addressing navigation problem, irrigation, water for domestic use and drainage congestion of the area. As per contract the consultants submitted final detail study report in May, 2013. As per recommendation of the Feasibility study report and instructions of Water Resources Ministry, Bangladesh Water Development Board taken up the mentioned project in cooperation by field level of Jashore O&M Division, BWDB, Jashore.

◆ Appraisal:

The PEC meeting was held on 24-04-2016 at 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's original DPP was approved by ECNEC on 16-08-2016 and RDPP was approved on 27-05-2021.

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

All the outcomes that were assumed to be served seem to be served by implementation of the project. The stakeholders are directly taking advantage of the created facilities of the project.

4.3 O & M Programme of the project

As the project has been completed, major repair/rehabilitation works will be accomplished from regular O&M budget of BWDB.

4.4 Impact of the project

4.4.1 Direct

- Drainage capacity of Bhairab River has been increased.
- Agriculture & fish production has been increased.
- Navigation facilities have been improved through the Bhairab river.

4.4.2. Indirect

- Ground water is being recharged due to improvement of catchment area.
- Socio-economic condition has improved in the project area.
- Environmental impact has been mitigated and ecological balance has been established.

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 project period.

4.7 Possibility of Self employment

River excavation has opened the opportunity of self-employment on agriculture and fisheries sector.

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 excavating the Bhairab river, employment related to agriculture, fisheries and water transportation sector has been increased. Therefore the economy of the local people will have positive impact. 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 as Drainage capacity of Bhairab river has been increased. Beside this, Groundwater recharge will have a positive impact on the surrounding ecosystem.

4.12 Sustainability of the project

The project is sustained but requires periodic maintenance.

4.13 Contribution to poverty alleviation/reduction

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

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

Positive remarks regarding the project.

4.16 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)

5.1	Project Management	:	N/A.
5.2	Project Director	:	N/A.
5.3	Land Acquisition	:	N/A.
5.4	Procurement	:	After approval of original DPP, based on actual field condition, morphological change, unforeseen situation and others, cost of re-excavation packages increased. Moreover, Re-excavation work within the Jashore faced plenty of difficulties like continuous drainage of daily uses water to Bhairab river, river bed fully silted with slushy, bottle, waste, debris etc. Excavated earth management also very difficult within the city. For this reason the packages cost also increases. Again, inclusion of walkway construction and beautification work increased the cost of DPP. For the above reasons, revision of DPP was proposed and approved by competent authority. Moreover, onset of Covid-19 has seriously delayed the progress of the project during the entire year of 2020 and 2021. Due to this, project completion period was increased to June, 2023. Again, due to unavoidable circumstances, 3 packages (Package No- e-Tender Bhairab/Jess/W1/Lot-1/2017-18, e-Tender Bhairab/Jess/W1/Lot-2/2017-18 & e-Tender Bhairab/Jess/W2/2017-18) contracts were cancelled. And in practical condition on field, remaining works of these cancelled packages were tendered later and work was done accordingly.
5.5	Consultancy	:	N/A.
5.6	Contractor	:	N/A.
5.7	Manpower	:	Skilled & unskilled labor shortage at project area for construction work.
5.8	Law & Order	:	N/A.
5.9	Natural calamity	:	During the project period, cyclones like Amphan, Foni, Mocha hit the project area. Hence, progress of the project hampered.
5.10	Project financing, allocation and release	:	N/A.
5.11	Design formulation/approval	:	N/A.
5.12	Project aid disbursement and re-imbursement	:	N/A.
5.13	Mission of the development partners.	:	N/A.
5.14	Time & Cost Over-run	:	34.96% time over run of original DPP.
5.15	Project Supervision/Inspection	:	N/A.
5.16	Delay in Decision	:	N/A.
5.17	Transport	:	N/A.
5.18	Training	:	N/A.
5.19	Approval	:	N/A.
5.20	Others	:	N/A.

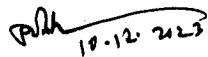
06. Remarks & Recommendations of the Project Director:

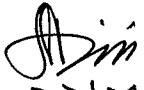
Hon'ble Prime Minister, during his visit to Jashore District in 2010 made a promise on "Re-excavation of Bhairab River". In order to implement Prime Minister's promise, the project titled "Drainage Improvement and Sustainable Water Management of Bhairab River Basin" taken up by Bangladesh Water Development Board at the initiative of the Ministry of Water Resources was approved in the ECNEC meeting held on 16.06.2016. The estimated cost of the project was Tk. 27912.75 lakh. The implementation period of the project was from July 01, 2016 to June 30, 2023. The project was completed within the allowed time frame. The main works of the project were Bhairab river re-excavation 96.000km, Upper Bhairab river re-excavation 20.975km, Daitla khal re-excavation 22.700km, 4 minor khals re-excavation 3.800km. and walkway construction 3.100km. All physical works of the project have been implemented as per design and specifications.

During the implementation of the project some problems have to be faced. There are 54 narrow bridges and culverts over the 96.00 km of Bhairab River and the bed level of bridges and culverts is very high, causing extreme obstruction to water flow. As the river Bhairab flows through Jessore city, waste from houses, shops, hospitals and factories is constantly falling into the river. As a result the river is getting filled and polluted. The municipality has been requested to take measures to prevent city waste from entering the river.

As a result of the implementation of the project, the drainage system on both sides of the Bhairab river has been significantly improved. At present, the river flows tidally up to Jashore town. The local people are using the river water for their household and agricultural purposes. Fish production has increased due to increase in river water. Ground water is being recharged as the river has water throughout the year. So, availability of water has become easier due to the increase the ground water level.

Finally, the implementation of the project promised by the Hon'ble Prime Minister is playing an important role in mitigation of water congestion and development of sustainable water management in the Bhairab River Basin area and the people of the area are enjoying the benefits of the project.

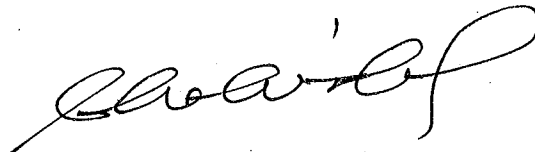

10.12.2023
(Polash Kumar Banerjee)
Executive Engineer
Jashore O&M Division
BWDB, Jashore.


22/12/2023
(Md. Mijanur Rahman)
Superintending Engineer
Jashore O&M Circle
BWDB, Khulna.

07. Remarks/ Comments of Agency Head.

This project was taken to fulfill the commitment of the honorable Prime Minister of People's Republic of Bangladesh. The aim of this project was to increase drainage capacity of Bhairab River and its adjacent Khal's through dredging and re-excavation. 96.00 km. Bhairab river re-excavation, 20.975 km. upper bhairab river excavation, 22.700 km Daitala khal re-excavation and 3.10 km. walkway was constructed under this project. As a result, drainage system on both sides of Bhairab river has improved significantly. The local people are using river water for household and agricultural purpose. This in turn results in improved livelihood of people living in the project area. Thus, this project can be regarded as successful one.

Date: 23/01/24


(S.M. Shahidul Islam)
Signature and Seal
ID No. 03030001
Director General
BWDB, Dhaka.

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

This project has been completed successfully. Regular maintenance and monitoring should be ensured by Bangladesh Water Development Board for the sustainability of the Project.

Date:

Signature and Seal

