

# **BANGLADESH WATER DEVELOPMENT BOARD**



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

**Name of the Project: Old Dakatia-New Dakatia River Irrigation and Drainage Project in the district Cumilla (1<sup>st</sup> Revised).**

**PROJECT PERIOD: OCTOBER 2017 TO JUNE 2022.**

**DIVISION : Cumilla O&M Division, BWDB, Cumilla.**

**CIRCLE : Cumilla O&M Circle, BWDB, Cumilla.**

**ZONE : Eastern Zone, BWDB, Cumilla.**

**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** : Old Dakatia-New Dakatia River Irrigation and Drainage Project in the district Cumilla (1<sup>st</sup> Revised).
02. **Administrative Ministry/Division** : Ministry of Water Resources (MoWR)
03. **Executing Agency** : Bangladesh Water Development Board (BWDB)
04. **Location of the Project** : Upazila – Laksham, Chawddagram, Nangolkot, Sadar  
Dokkhin, Lalmai & Comilla Sadar; District: Cumilla.

05. **Objective of the Project** :
- 1) To eliminate waterlogging and make uncultivated lands arable by re-excavation of existing adjacent canals within the Old Dakatia and New Dakatia River.
  - 2) Re-excavation of rivers/canals to increase the storage of irrigable water. As a result, the possibility of recharge of ground water table along with soil moisture will increase.
  - 3) To develop rapid water drainage system and creation of navigation facilities through re-excavation of eroded river and canals. This will also increase fish production and create socio-economic development of adjacent people.

06. **Estimated Cost** : (In lakh Taka)

	Original	Latest Revised (1 <sup>st</sup> )
(a) Total	4989.46	4989.46
(b) Taka	4989.46	4989.46
(c) Foreign Currency	-	-
(d) Project Aid	-	-
(e) RPA	-	-

07. **Date of Approval** : 

PCP	PP
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(a) Original	:	-	26-12-2017
(b) Latest Revised (1 <sup>st</sup> )	:		20-07-2020
(c) 1 <sup>st</sup> No Cost Time Extension	:		15-09-2021
(d) 2 <sup>nd</sup> No Cost Time Extension	:		01-02-2022

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**08. Implementation Period :**

	Date of Commencement	Date of Completion
(a) Original	October/2017	June/2020
(b) Latest Revised (1 <sup>st</sup> )	October/2017	June/2021
(c) 1 <sup>st</sup> No Cost Time Extension	October/2017	December/2021
(d) 2 <sup>nd</sup> No Cost Time Extension	October/2017	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

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

**b) GOB:**

(In lakh Taka)

Total amount	Loan	Grant	Cash Foreign Exchange
1	2	3	4
4989.46	-	4989.46	-

**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 Re-imbursible Project Aid (RPA):**

(In lakh Taka)

R P A Amount		Amount Spent	Amount Claimed	Amount Re-imbursed	Remarks
As per PP	As per Agreement				
1	2	3	4	5	6

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## **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 <sup>st</sup> )			
1	2	3	4	5
October/2017 to June/2020	October/2017 to June/2021	October/2017 to June/2022	72.73%	During 1 <sup>st</sup> Revision the cost of Re-Construction of Office Building Package increased due to change in design. As a result, it required more time for tendering process of the additional item. Moreover, Covid-19 situation hampered the material and labour supply which forced to stop the running works in several time. As a result, it creates time 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
<b>TOTAL</b>	4989.46	4989.46	4382.85	(-12.16%)	Due to local problem, unavailability of dyke, targeted re-excavation works can not be achieved according to design. So, the quantity of excavated earth volume is reduced to some extent. As a result, the evaluated earth volume was less than estimated earth volume. Also, due to the savings on tendering procedure cost is reduced.
<b>TAKA</b>	4989.46	4989.46	4382.85	(-12.16%)	
<b>PA</b>					

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

Sanctioned strength as per PP	Manpower employed during execution	Status of the existing manpower			Manpower Employed	
		Manpower requirement for O&M as per pp	Existing manpower for O & M	Others		
1	2	3	4	5	Male	Female
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/workshop/ Seminar etc.	Provision as per PP		Actual		Remarks
	Number of persons	Man - months	Number of persons	Man - months	
1	2	3	4	5	6
a. Foreign	Nil				
b. Local (Workshops for Water Management Groups Formation and Management)	150	-	60	-	Due to covid-19 situation all the training expenditures were restricted. So out of 5 targeted workshops 2 workshops were arranged.

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

(In lakh Taka)						
Items of work  (As per PP)	Unit	Target (as per PP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
(A) Revenue Component:						
Travelling Expenses.	item	5.00	L.S.	5.00	L.S.	
Petrol & Lubricant.	item	5.00	L.S.	5.00	L.S.	
Printing & Publication	item	1.00	L.S.	1.00	L.S.	
Stationary Seal Stump	item	2.00	L.S.	2.00	L.S.	
Training Expenditure	item	5.00	L.S.	2.60	L.S.	Due to covid-19 situation all the training expenditures were restricted

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Items of work (As per PP)	Unit	Target (as per PP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
Honorarium for the members of steering committee & Midterm Evaluation	item	10.00	L.S.	8.02	L.S.	
Survey & Investigation	item	10.00	L.S.	10.00	L.S.	
Repair & Maintenance of existing vehicle	item	2.50	L.S.	2.50	L.S.	
<b>Sub-Total (A)=</b>		<b>40.50</b>		<b>36.12</b>		
<b>(B) Capital Component:</b>						
Motor Vehicle (Double Cabin Pickup)	Nos	52.00	1	-	-	Due to covid-19 situation, vehicle purchases were restricted
Engineering Instrument (Total Station Instrument 1 set, Leveling Machine 3 set & Accessories) Set.	Set	8.50	3	8.50	3	
Engineering Instrument (GPS & Accessories) 1 Set.	Set	1.00	1	1.00	1	
Desktop Computer: Brand with laser printer & accessories 2 Nos.	Nos	1.50	2	1.50	2	
Furniture	Set	5.00	1	5.00	1	
Forestation	Item	5.00	LS	5.00	LS	
Re-Construction of Office Building (SE Office, Xen Office, Rac Office and Repairing Chief Engineer's Residence.)	Nos	1233.43	1	1231.69	1	
Re-Excavation of River/Khals (08 Nos)	Km/ Lakh cum	1881.43	71.89 km/ 20.23 lakh cum	1464.53	71.89 km/ 14.62 lakh cum	Due to local problem, unavailability of dyke, targeted re-excavation works can not be achieved according to design. So, the quantity of excavated earth volume is reduced to some extent. As a result, the evaluated earth volume was less than the estimated earth

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Items of work (As per PP)	Unit	Target (as per PP)		Actual Progress		Reasons for deviation (±)
		Financial	Physical (Quantity)	Financial	Physical (Quantity)	
1	2	3	4	5	6	7
						volume. Also, due to the savings on tendering procedure, cost is reduced.
Re-Excavation of Khals (By LCS) (08 Nos)	Km/ Lakh cum	683.66	26.098 km/ 4.20 lakh cum	666.58	26.098 km/ 4.10 lakh cum	
Re-Sectioning of Kankri River Flood Controlling Embankment	km	92.47	5.10 km	92.47	5.10 km	
Protective Work of Kankri River Flood Controlling Embankment (CC Block) CC Block Qty. 101787 nos	Km	832.81	0.965 km	758.30	0.965 km	
Submersible Embankment	km	112.16	4.300	112.16	4.300	
<b>Sub-Total (B) :</b>		<b>4908.96</b>		<b>4346.73</b>		
<b>Total (A+B) :</b>		<b>4949.46</b>		<b>4382.85</b>	<b>87.84%</b>	
(C) Physical Contingency	L.S.	20.00	L.S.	-	-	
(D) Price Contingency	L.S.	20.00	L.S.	-	-	
<b>Total (A+B+C+D):</b>		<b>4989.46</b>	<b>100%</b>	<b>4382.85</b>	<b>87.84%</b>	

**06. Information regarding Project Director (s):**

Name & Designation with pay Scale.	Full time	Part time	Responsible for more than one project	Date of		Remarks
				Joining	Transfer	
1	2	3	4	5	6	7
Md. Zohirul Islam Superintending Engineer. Cumilla O&M Circle, (Grade-4, 50000-71200)	Yes	-	Yes	07-03-2018	07-04-2021	-
Khan Mohammad Waliuzzaman Executive Engineer Comilla O&M Division BWDB, Comilla (Grade-5, 43,000-69,850)	Yes	-	Yes	03-06-2021	till to date	-

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

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Type of transport	Number as per P.P.	Procured with date	Transferred to Transport Pool with date	Transferred to O & M with date	Condemned/damaged with date	Remarks
1	2	3	4	5	6	7
Double Cabin Pick-up	-	-	-	-	-	Could not be able to purchase due to restriction of vehicle procurement by the Government

#### 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 lakh Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per PP	Contracted value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
Re-excavation of Old Dakatia River from Km. 5.700 to Km. 12.700= 7000.00m at Upazilla Chouddagram In C/W Old Dakatia-New Dakatia River Irrigation and Drainage Project in the District Comilla Under Comilla O&M Division, BWDB, Comilla During the Year 2018-19. Package No: COM/DAK/ W-01 (eTender ID: 233387)	Original = 483.75 1 <sup>st</sup> Revised= 477.890	477.89	07/10/2018	06/12/2018	31/05/2021	31/05/2021
Re-excavation of Old Dakatia River from Km. 12.700 to Km. 20.200 = 7500.00m at Upazilla Chouddagram In C/W Old Dakatia-New Dakatia River Irrigation and Drainage Project in the District Comilla Under Comilla O&M Division BWDBComilla During the Year 2018-19. Package No: COM/DAK/ W-02 (eTender ID: 233388)	Original = 473.180 1 <sup>st</sup> Revised= 304.850	304.85	07/10/2018	06/12/2018	31/05/2021	31/05/2021
Re-excavation of New Dakatia River from Km. 16.500 to Km. 23.200= 6700.00m at Upazilla Sadar South Upazilla In C/W Old Dakatia-New Dakatia River Irrigation and Drainage Project in the District Comilla Under Comilla O&M Division, BWDB, Comilla During the Year 2018-19. Package No: COM/DAK/W-04 (eTender ID: 262586)	Original = 326.48 1 <sup>st</sup> Revised= 265.31	265.31	13/12/2018	10/02/2019	31/05/2021	31/05/2021
Re-Excavation of Pagli Khal from Km.6.200 to Km. 14.100 = 7.900 km. under Cumilla O&M Division, BWDB, Cumilla during the year 2018-19. (COM/Dak/L-09)	Original = 245.88 1 <sup>st</sup>	256.34	21/10/2018	04/11/2018	31/03/2019	31/03/2019

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Description of procurement (goods/works /consultancy) as per bid document	Tender/Bid/Propo al Cost (in lakh Taka)		Tender/Bid/Proposal		Date of completion of works/services and supply of goods	
	As per PP	Contracted value	Invitation date	Contract signing/ L.C opening date	As per contract	Actual
1	2	3	4	5	6	7
	Revised= 254.89					
Construction of 1-storied building for Panibhaban (1 <sup>st</sup> Phase) at Jhawtola in C/W "Old Dakatia-New Dakatia River Irrigation and Drainage Project (1 <sup>st</sup> Revised)" in the district Cumilla under Cumilla O&M Division, BWDB, Cumilla during the year 2020-2021. Package No: COM/DAK/W-16 (eTender ID: 415202)	Original = 250.00 1 <sup>st</sup> Revised= 499.27	499.15	20/01/2020	27/08/2020	30/06/2022	30/06/2022
Construction of 2-storied building for Panibhaban (2 <sup>nd</sup> Phase) at Jhawtola in C/W "Old Dakatia-New Dakatia River Irrigation and Drainage Project (1 <sup>st</sup> Revised)" in the district Cumilla under Cumilla O&M Division, BWDB, Cumilla during the year 2020-2021. Package No: COM/DAK/W-16A (eTender ID: 487968)	1 <sup>st</sup> Revised= 737.16	732.72	26/08/2020	05/01/2021	30/06/2022	30/06/2022
Protective work along the both bank of Khira Khal from Km.0.00 to Km.0.265 = 530.00m. at Hajotkhola in Lalmai Upazila in C/W "Old Dakatia-New Dakatia River Irrigation and Drainage Project (1 <sup>st</sup> Revised)" in the district Cumilla under Cumilla O&M Division, BWDB, Cumilla during the year 2020-2021. Package No: COM/DAK/W-17 (eTender ID: 483413)	1 <sup>st</sup> Revised= 305.15	302.00	09/08/2020	05/10/2020	30/06/2021	30/06/2021
Protective work along the Right Bank of Dakatia River from km. 19.770 to km 19.985 = 215.00m at Madhushchar in Laksam Upazila in C/W "Old Dakatia-New Dakatia River Irrigation and Drainage Project (1 <sup>st</sup> Revised)" in the district Cumilla under Cumilla O&M Division, BWDB, Cumilla during the year 2020-2021. Package No: COM/DAK/W-18 (eTender ID: 483414)	1 <sup>st</sup> Revised= 300.13	296.97	09/08/2020	05/10/2020	30/06/2021	30/06/2021

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**8.2 Use of Project Consultant (s) (Foreign/Local):** No Provision of service procurement in this project.

Name of the Field	Approved man month		Actual man month utilised	Remarks
	As per PP	As per contract		
1	2	3	4	5

a) **Foreign:** ..... Nil .....

b) **Local:** ..... Nil .....

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

Description of items	Quantity (as per PP)	Quantity procured with date	Transferred to O & M with date	Disposed off as per rule with date	Balance	Remarks
1	2	3	4	5	6	7
Engineering Instrument (Total Station Instrument, Leveling Machine & Accessories)	1 set	1 set 13/11/2019	Cumilla O&M Division, BWDB, Cumilla. 01/07/2022	-	1 set	Is being used for survey works for the monitoring of implemented work
Engineering Instrument (Leveling Machine & Accessories)	2 set	2 set 14/06/2020	Cumilla O&M Division, BWDB, Cumilla. 01/07/2022	-	2 set	Is being used for survey works for the monitoring of implemented work
Engineering Instrument (GPS & Accessories)	1 set	1 set 30/08/2018	Cumilla O&M Division, BWDB, Cumilla. 01/07/2022	-	1 set	Is being used for survey works for the monitoring of implemented work
Desktop Computer: Brand with laser printer & accessories	2 Nos	2 Nos 30/08/2018	Cumilla O&M Division, BWDB, Cumilla. 01/07/2022	-	2 Nos	Is being used for maintaining office work of implemented work

**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 (1 <sup>st</sup> )			
	Total	Taka	P.A.	Physical %	Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9
2017-18	1965.52	1965.52	-	39.39	46.09	46.09	-	0.92
2018-19	2084.07	2084.07	-	41.77	1423.99	1423.99	-	28.56
2019-20	939.87	939.87	-	18.84	1500.00	1500.00	-	30.06
2020-21	0.00	0.00	-	0.00	2019.38	2019.38	-	40.46
2021-22	0.00	0.00	-	0.00	0.00	0.00	-	0.00
Total=	4989.46	4989.46	-	100.00%	4989.46	4989.46	-	100.00%

**01. (b) Revised ADP allocation and progress:**

(In lakh Taka)

Financial Year	Revised Allocation & target				Taka release	Expenditure & physical progress			
	Total	Taka	P.A.	Physical %		Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9	10
2017-18	126.00	126.00	-	0.92	125.00	46.09	46.09	-	0.92
2018-19	1500.00	1500.00	-	28.56	1500.00	1423.99	1423.99	-	28.56
2019-20	1018.00	1018.00	-	30.06	1018.00	823.43	823.43	-	16.50
2020-21	2200.00	2200.00	-	20.46	1600.00	1504.30	1504.30	-	34.02
2021-22	756.00	756.00	-	20.00	679.64	585.04	585.04	-	7.84
Total=	5600.00	5600.00	-	100.00	4922.64	4382.85	4382.85	-	87.84

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

Objectives as per DPP	Actual achievement	Reasons for shortfall, if any
(a) Re-excavation of existing canals within the Old Dakatia - New Dakatia river to eliminate waterlogging and make uncultivated lands arable. If the project is implemented, the crop production will increase by an estimated 3396.00 lakh taka annually	Project area's water logging system has been improved. and cultivable lands have been increased	No shortfall
(b) If the project is implemented, the crop production will increase from an estimated 78,200 metric tons to 96,715 metric tons annually. Project gross area = 30000 hectares, net area 24500 hectares.	Crop production on the project area have been increased and actual amount of increment will be assessed after a year.	
(c) Development of rapid water drainage system through re-excavation/dredging of eroded rivers, expansion of trade and commerce through creation of navigation facilities, enhancement of fish production, socio-economic development of the people along with revitalization of the environment	Water drainage system, navigation facilities, fish production and overall socio-economic development production of the project area have been achieved.	
(d) To supply fresh water into the project and irrigate cropland to increase crop production and domestic use through Old Dakatia - New Dakatia river link canals.	Fresh water supply and Crop production of the project area have been improved.	No shortfall
(e) Reclamation of rivers/canals will increase the storage of irrigable water. As a result, the possibility of recharge of ground water table along with soil moisture will increase.	Reservation of the irrigation water in the khals and ground water recharge of the project area is improved.	
(f) To develop sustainable management in the project by forming Water Management Groups in combination with the beneficiaries of the area.	Formation of WMG's have developed for sustainable water management of the project area.	

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## E. BENEFIT ANALYSIS

### 01. Annual Out-put:

Items of out-put	Unit	Estimated quantity expected at full capacity	Actual quantity of out-put during the 1st year of operation at full capacity (or during, real production for newly completed project).
(a) Increment of crop production	Metric Ton	96,715	Actual amount of increase will be evaluated after a year.
(b) Drainage Facilities Extension	Ha.	30,000	30,000
(c) FCDI Facilities	Ha.	24,500	24,500

### 02. Cost / Benefit:

Item	Estimated	Actual
(1) Benefit cost of the project		It will be evaluated later by concern directorate of BWDB & IMED.
(i) Financial	1.52:1.00	
(ii) Economic	1.98:1.00	
(2) Internal rate of return		
(i) Financial	20.31%	
(ii) Economic	26.97%	

03. Please give reasons for shortfall, if any, between the estimated and actual benefit: No Shortfall.

## F. MONITORING AND AUDITING

### 0.1 Monitoring:

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
<b>(a) Ministry / Agency:</b>			
Mr. Kabir Bin Anwar Secretary, Ministry of Water Resources	07-12-2019	No major problems identified.	Project Progress was satisfactory. All rivers and khals should be re-excavated as per specification.
Alam Ara Begum Addl. Secretary Ministry of Water Resources	28-08-2021	Project was scheduled to be end in December/2021. Only 1 lakh taka budget is allocated in ADP.	To complete the remaining project works within time sufficient budget should be allocated in RADP,

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Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
Afsana Bilkis Deputy Secretary, Ministry of Water Resources	27-12-2018	No major problems identified.	Project Progress was satisfactory
Afsana Bilkis Deputy Secretary, Ministry of Water Resources	23-04-2019	No major problems identified.	Suggested to increase the monitoring
Afsana Bilkis Deputy Secretary, Ministry of Water Resources	12-11-2019	No major problems identified.	Project Progress was satisfactory
Afsana Bilkis Deputy Secretary, Ministry of Water Resources	15-11-2020	No major problems identified.	Project Progress was satisfactory
Abdullah Al Arif Deputy Secretary, Ministry of Water Resources  S M Sarowar Kamal Deputy Secretary, Ministry of Water Resources	11-06-2022	No major problems identified.	Project Progress was satisfactory. Project must be completed in time
Zahir Uddin Ahmed Chief Engineer Eastern Zone, BWDB, Cumilla.	01-05-2019 06-12-2019	No major problems identified.	Project Progress was satisfactory. Project must be completed in time
Mr. Kazi Tofail Hossain Chief Monitoring BWDB, Dhaka	06-01-2020	The work is going on. Because of many obstacles, khal excavation work become difficult. Also, there is no acquired land for keeping spoiled earth.	River/Khal should be re-excavated as per design and specification.
Mr. Md. Zohirul Islam PD/SE, BWDB	19-11-2018 15-12-2018 2-12-2018 19-03-2019 06-12-2019 30-01-2021 20-03-2021	Due to road, trees, mosque, graveyard etc. at river/canal site, cutting of earth is difficult.	River/Khal should be re-excavated as per design and specification.  Spoil earth should be kept as per field condition.  Re-excavation must be completed in time. Necessary steps should be taken to complete the works of office building as per design and specification.

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
<b>(b) IMED:</b>			
Md. Jahangir Kabir DG, IMED	29/06/2019	Because of many obstacles, like trees, house, mosque etc. river and khal excavation work become difficult.	River/Khal should be re-excavated as per design and specification. Also, afforestation should be completed within project duration. Project Should be completed in time.
Upoma Akter Deputy Director, IMED.	21/11/2019	No major problems identified.	Project Should be completed in time.
Khalil Ahmed Director, IMED.	23/01/2021	Progress of re-construction of Office building packages was slow.	Necessary steps should be taken to complete the works of office building as per design and specification.
Md. Afzol Hossain DG, IMED	28/08/2021	Project was scheduled to be end in June/2021. So no budget is allocated in ADP	Recommended for no cost time extension of the project upto December/2021. All works should be done as per specification.
Khalil Ahmed Director, IMED.	01/01/2022	Project was scheduled to be end in December/2021. But due to covid-19 situation and since office building construction work was a step-by-step process it took time to achieve the desired target. Only 1 lakh taka budget is allocated in ADP.	Recommended for no cost time extension of the project upto June/2022. Necessary steps should be taken to complete the works of office building as per design and specification. To final the pending bill and complete the remaining project works within June/2022 sufficient budget should be allocated in RADP.
<b>Others:</b>			
DC, Cumilla	12/01/2019	No major problems identified.	Project Should be completed in time.
UNO, Chowddogram, Cumilla	29/01/2019	No major problems identified.	Project Progress was satisfactory
Upazilla Chairman, Sadar Dakkhin, Cumilla	30-11-2018	No major problems identified.	Project Should be completed in time.

## 0.2. Auditing during and after Implementation:

### 2.1. Internal Audit:

Period of Audit	Date of submission of Audit Report	Major findings/ objections	Whether objections resolved or not.
1	2	3	4
No internal audit			

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## 2.2. External Audit:

Audit period	Date of submission of Audit Report	Major findings/ objections	Whether objections resolved or not.
1	2	3	4
2017-18	No audit objection arised.		
2018-19	11/12/2019	Preparation and approval of estimate of showing additional length for keeing spoil earth from river/khal excavation work.	Answer is submitted through Competent Authority and the objection is already resolved
2019-20	10/11/2021	Irregular bill payment in the name of honorium for steering committee.	Answer is submitted through Competent Authority and resolution of the objection is on process.
2020-21			
2021-22	Yet to be conducted		

## G. DESCRIPTIVE REPORT

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

#### 1.1 Background

Originating from India near Kashinagar under Chauddagam upazila of Cumilla district, Kakri river divides into two parts, one called New Dakatia which joins Meghna River at Chandpur and the other called Old Dakatia flows through Chauddagam and Nangolkot upazilas of Cumilla district and joins Little Feni River in Feni district of Muchapur regulator of Noakhali district has fallen into the Bay of Bengal. For a long time, the Old Dakatia river, New Dakatia river and several canals adjacent to these two rivers were not re-excavated and were almost filled with silt. As a result, on one hand, irrigation water was not available for agricultural work during the dry season, and on the other hand, if there was even rain, due to improper drainage, the emerging crops were damaged and the surrounding areas were flooded.

As the river/khals of the project area were not re-excavated for a long time, all the khals were silted up. They lost their drainage capacity as well as reserving capacity. As a result, flash flood occurred in the project area in each and every year. At the same time, the project area had been inundated for certain period. In this circumstance, the stakeholders failed to cultivate the various types of crops in proper time. For this season, crop production of the project area hampered seriously.

By re-excavation from 5.700 km to 20.200 = 14.500 km. of the Old dakatia river and from Km 11.000 km to 23.200 = 12.200 km. of the New Dakatia river and from 5.300 km. Up to 12.450 = 7.150 km. of the Kakri river and adjacent areas of these rivers and some canals connecting with the rivers about 30,000 ha of land area's water would be drained, the water holding capacity of the rivers and canals would increase and about 24,500 ha of cropland would come under irrigation facilities using groundwater.

By implementing the project, it was expected to produce additional crops through the use of river and canal water for irrigation during the dry season and the fish production would be improved and the water would be drained quickly after the monsoon, thus the environmental balance of the area would be preserved.

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In this situation, a technical committee was formed to study the proposed project. The committee submitted its report. The technical committee in its report has recommended the implementation of the work. In accordance with the recommendations of the Technical Report, the current DPP had been prepared.

### **1.2 Justification/Adequacy**

The project is located in Laksam, Chaudagram, Nangolkot, Sadar Dakkhin and Adarsha Sadar upazila of Cumilla district. The main component of the project is the re-excavation of total 97.988 km rivers and adjacent khals, resectioning of total 5.10 km embankment of kakri river, 0.96km protective work and re-construction of Office Building. As a result of implementation of the project, 24,500 hectares of arable land has now been protected from rain or flood water in advance and ensure crop production. Besides, fish production, navigation facilities and water drainage system has been improved and the balance of the environment has been preserved.

### **1.3 Objectives**

The main objectives of this project were-

- To eliminate waterlogging and make uncultivated lands arable by re-excavation of existing canals within the Old Dakatia - New Dakatia river. If the project is implemented, the crop production will increase by an estimated 3396.00 lakh taka annually.
- To develop rapid water drainage system through re-excavation/dredging of eroded rivers, expansion of trade and commerce through creation of navigation facilities, enhancement of fish production, socio-economic development of the people along with revitalization of the environment
- To supply fresh water into the project area and irrigate cropland to increase crop production and domestic use through Old Dakatia - New Dakatia river link canals.
- Re-excavation/dredging of rivers/canals will increase the storage of fresh water. As a result, the possibility of recharge of ground water along with soil moisture will increase.
- To develop sustainable management of the project by forming water management organization in combination with the beneficiaries of the area.

### **1.4 Project revision with reasons**

“Old Dakatia-New Dakatia River Irrigation and Drainage Project” in the district Cumilla has been approved by Planning Commission Agriculture, Water Resources and Rural Institutions Division, Irrigation Wing Memorandum No. 20.358.014.01.08.325.2017/161 dated 31/12/2017 AD / 17.09.1424 and administrative approval was issued from the Ministry of Water Resources on 07/01/2018. The original total cost of the project is 4989.86 lakh taka.

The original DPP contains 28 packages. It includes Tk 3187.74 lakh for re-excavation of 94.96 km river/canal, Tk 937.55 lakh for re-excavation of 27.045 km river/canal through LCS, Tk 108.61 lakh for 6.00 km resectioning of embankment, 231.47 lakh Tk for 0.360 km protective works, 131.59 lakh Tk for construction of 4.50 km submerged embankment and 250.00 lakh Tk for building construction.

8.200 km of Laksam Canal and 10.72 km of Melar Canal included in the original DPP could not be re-excavated due to high seal level of LGED road, railway bridge/culvert. Works of 18 packages were completed in June/2019. Necessary measures had been taken to complete the remaining packages within the stipulated time. The final estimate of the design of the building construction work was prepared. Tender evaluation was in progress.

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In that time, on 11/06/2019, Hon'ble Secretary, Ministry of Water Resources chaired the meeting of the steering committee of the project where he gave instructions for the construction of office buildings through inter-component adjustment.

On 05/11/2019, in the light of the directives of the project review meeting under the chairmanship of Hon'ble Secretary, Ministry of Water Resources, the revised DPP was prepared by keeping additional funds from the saved money for building construction work through inter-sector coordination.

According to the DO letter of Hon'ble Finance Minister, RDPP has been reconstructed for construction of protective works on both banks of Khira khal 0.265 km, on right bank of New Dakatia river 0.215 km and office building from the saved money of the project.

For the circumstances stated above, 1<sup>st</sup> RDPP costing 4989.46 lakh taka which includes 32 packages in which excavated length were 97.988 km., Resectioning of total 5.10 km embankment of kakri river, 0.96 km protective work and re-construction of Office Building and implementation period of project up to June 2021 were approved.

During 1<sup>st</sup> Revision the cost of Re-Construction of Office Building increased due to change in design. It takes more time for tendering process of the additional item. Since Building construction work such as piling, grade beam, column, slab casting work etc is step by step process. So, to accommodate that interruption project duration needed to be extended. Moreover, Covid-19 situation hampered the material and labour supply which forced to stop the running works several times. As a result, no cost time extension was required from October/2017 to June/2022.

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

As a target of the project, 16 nos. rivers and khals were re-excavated. The project area has been protected from flash flood now. Water logging has been eliminated, communication systems have been improved, crop production has increased and widespread development of fish farming has taken place. Above all, the balance of the environment has been conserved.

Detailed Cost-Estimate for physical interventions of the project for implementation of the proposed works as recommended by the Technical Committee and included in this approved Development Project Proposal (DPP). This DPP has been prepared on the basis of approved design and later working design was prepared during implementation of physical work on the basis of existing river morphology of that time and current Schedule of Rates of Cumilla O&M Circle, BWDB, Cumilla.

The nature and objective of the project have direct relevance of the national objectives of attaining self-reliance in food grain production, generation of rural development, poverty alleviation especially for rural poorer section, creation social & environmental balance and building economic infrastructures for the future generations to sustain. So, in respect of Concept, Design, Location and Timing, this project is perfect.

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

### **◆ Project Identification**

As per DO Letters of respective Members of the parliament of the People's Republic of Bangladesh, the project area was suffered drainage congestion, damage of crops, no Irrigation facilities reduction in fertility of cultivable lands, human sufferings etc. The problems were identified by BWDB and to solve these problems through re-excavation of Old Dakatia river, New Dakatia river and its adjacent branch khal this project was taken. A technical committee which was formed by BWDB were recommended the preparation and implementation of the project.

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◆ **Project Preparation**

Addressing the above problems, Cumilla O&M Division, BWDB Cumilla prepared the original DPP on the basis of the report of technical committee consisting Re-excavation of Old Dakatia river, New Dakatia river and its adjacent branch Khal for irrigation and drainage improvement project in the district Cumilla.

◆ **Appraisal**

PEC meeting was held on 21-08-2017 in planning commission. As per decision of PEC meeting the DPP was corrected & sent to the planning commission for approval.

- ◆ **Credit Negotiation:** Not Applicable.
- ◆ **Credit Agreement:** Not Applicable.
- ◆ **Credit Effectiveness:** Not Applicable.
- ◆ **Loan Disbursement:** Not Applicable.
- ◆ **Loan Conditionalities:** Not Applicable.
- ◆ **Project Approval.**

The project was approved by Honorable Minister, Ministry of Planning on 26.12.2017.

- ◆ **Others (if any).** Nil.

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

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

Yes

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

After implementation of the project, 24,500 hectares of arable land will be protected from rain or flood water in advance and ensure crop production. Besides, fish production will increase and the balance of the environment will be preserved. The stakeholders are directly taking advantages 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, operation and maintenance programme will be accomplished from regular O&M budget of BWDB.

**4.4 Impact of the project -**

**4.4.1 Direct**

After implementation of the project, drainage improvement facilities has been provided to about 30,000 ha. gross area. It has reduced intensity of floods, damages to crops, properties and human sufferings: It has also increased agricultural productivity, fish production and other economic activities in the project area The farmers can utilize dry season irrigation facilities at their own initiative for more crop production through retaining water in khal which is one of the significant project objectives.

#### **4.4.2 Indirect**

Increase in agricultural production, business facilities as well as self-employment opportunity. As a result, socio-economic development of the project area is achieved.

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

Not Applicable.

#### **4.6 Employment generation through the project.**

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

#### **4.7 Possibility of Self employment**

Many agricultural land and business center was saved. Hence there will be significant possibility of self-employment on agriculture sector and business sector.

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

Most people of the project area are with limited source of employment. As such poverty is the part and parcel of their day-to-day life. By the implementation of this project, employment in business sector will be created due to socio-economic condition, micro-financing activities. Project will also create employment opportunities and these will ultimately contribute to poverty alleviation. Women can engage themselves to various household & handicraft and business employment opportunities after development of the project area by this project.

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

Women have participated with men during construction phase of the project.

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

At post project condition, due to the re-excavation of the rivers and khals, water logging has been eliminated in the project area and during the dry season, additional crops are being produced through cultivation through water of rivers and khals. By protecting the river bank erosion, various infrastructures are saved from the erosion. As a result, socio-economic balance in the locality is enhanced.

#### **4.11 Impact on environment**

The project has no adverse effect on environment. The project is to provide safety to human lives, properties and to enhance economic activities as well as natural and environmental balance against water logging. Thus, the overall environmental balance in region is restored.

#### **4.12 Sustainability of the project**

The project is sustained but requires periodic maintenance.

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

Project activities created employment opportunities which would contribute to poverty alleviation.

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

Local representatives such as Member of Parliament, local elite, local administration, teachers, religious leaders, women's representative & local UP chairman have positive remarks about the project. They are very much happy with the project.

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**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)**

<b>5.1</b>	<b>Project Management</b>	<b>N/A</b>
<b>5.2</b>	<b>Project Director</b>	<b>N/A</b>
<b>5.3</b>	<b>Land Acquisition</b>	<b>N/A</b>
<b>5.4</b>	<b>Procurement</b>	<b>N/A</b>
<b>5.5</b>	<b>Consultancy</b>	<b>N/A</b>
<b>5.6</b>	<b>Contractor</b>	<b>N/A</b>
<b>5.7</b>	<b>Manpower</b>	<b>N/A</b>
<b>5.8</b>	<b>law &amp; Order</b>	<b>N/A</b>
<b>5.9</b>	<b>Natural calamity</b>	<b>N/A</b>
<b>5.10</b>	<b>Project financing, allocation and release.</b>	<b>N/A</b>
<b>5.11</b>	<b>Design formulation/approval</b>	<b>N/A</b>
<b>5.12</b>	<b>Project aid disbursement and re-imburement</b>	<b>N/A</b>
<b>5.13</b>	<b>Mission of the development partners.</b>	<b>N/A</b>
<b>5.14</b>	<b>Time &amp; Cost Over-run</b>	Time over-run due to reason for DPP revision and covid-19 situation. So that project time has been extended. During 1 <sup>st</sup> Revision the cost of Re-Construction of Office Building Package increased due to change in design. As a result, it took more time for tendering process of the additional item. Since Building construction work such as piling, grade beam, column, slab casting work etc is step by step process. So, to accommodate that interruption project duration needed to be extended. Moreover Covid-19 situation hampered the material and labour supply which forced to stop the running works in several time.
<b>5.15</b>	<b>Project Supervision/Inspection</b>	<b>N/A</b>
<b>5.16</b>	<b>Delay in Decision</b>	<b>N/A</b>
<b>5.17</b>	<b>Transport</b>	<b>N/A</b>
<b>5.18</b>	<b>Training</b>	<b>N/A</b>
<b>5.19</b>	<b>Approval</b>	<b>N/A</b>

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**5.20 Others.**

Covid-19 situation hampered the material and labour supply which forced to stop the running works in several time. As a result, project no cost time extension required from October/2017 to June/2022 and so that project time has been extended.

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

Old Dakatia-New Dakatia River Irrigation and Drainage Project in the district Cumilla was formulated to improve the irrigation facility and drainage congestion in the project area. In original approved DPP, 16 nos rivers and khals (26 Packages) with 122.005 km re-excavation work was considered. Then with the inclusion of some new packages as per request of Local Member of Parliament total 32 packages were in the 1<sup>st</sup> RDPP. As revision of DPP required time, thus beginning of the physical works delayed. Moreover, Covid-19 situation hampered the material and labour supply which forced to stop the running works several times.

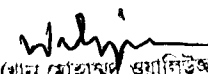
During the implementation of this project, members of different committees & monitoring authorities visited project site and provided their opinions which has helped to implement the project. Project was implemented properly following respective design, drawing and specification. The quantity and quality of C.C block, Sand filled geo-bag etc. were ensured by Task force committee of BWDB and concerned officials of BWDB. In the whole, BWDB taskforce has monitored all the work to ensure transparency. They conducted pre-work and post-work survey.

During implementation, problems related to dredged material management was faced. Also, there were lots of obstacles needed to overcome during excavation work. Finally, all the works were completed maintaining desired quality. Now, the people of the project area are getting all the benefits of this project. In dry season, they can use the reserved water for irrigation purpose. Thus, crop production has increased. Re-excavation work facilitates good drainage facility. Thus, the project area is now free from waterlogging in the monsoon period.

Under the package of Re-Construction of Office Building (SE Office, Xen Office, Rac Office and Repairing Chief Engineer's Residence.) at Jawtola, Cumilla, the office building has been constructed from GF to 1F. The vertical extension of this office building is needed from 2F to 5F through another project to make the office building fully functional.

The Project has been completed successfully and beneficiaries are getting full benefit from the Project. Proper Monitoring and regular maintenance works are required for more sustainability of the project.

Date: 20.10.2022

  
(খান মোহাম্মদ ওয়ালিউজ্জামান)  
Signature and seal of the Project Director  
কুমিল্লা জাতীয় বিশ্ববিদ্যালয়  
বাপাউজা, কুমিল্লা।

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

This project was taken to improve the irrigation facility and drainage congestion in the Cumilla district by re-excavating the Old Dakatia and New Dakatia Rivers. A total of 98.00 km. of khal/river was re-excavated in this project which results in efficient drainage facilities, diminishing waterlogging, and increased water storage during the dry season. All these benefits have resulted in increased crop production. Overall, this project is serving its intended purpose and can be considered a successful one.

Date: .....

 29/10/2022

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**Signature and Seal**  
**(FAZLUR RASHID)**  
Director General  
BWDB, Dhaka.

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

The project has been completed successfully with the objective to eliminate water logging and make uncultivated lands arable by re-excavation of existing adjacent canals within the Old Dakatia and New Dakatia River. Re-excavation work also increase the irrigation facilities during dry season. As a result, crop production in the project area has been improved. Proper maintenance activities are required to sustain the output of the project.

Date: .....

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**Signature and Seal**

