

## BANGLADESH WATER DEVELOPMENT BOARD

**PROJECT COMPLETION REPORT(PCR)**

OF

“Re-Excavation of Curzon Khal And Its Adjacent Branch  
Khal For Irrigation and Drainage Improvement Project in the  
district Cumilla (2<sup>nd</sup> Revised)

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 06/2019 (Revised)**

**A. PROJECT DESCRIPTION :**

- 01. Name of the Project** : Re-excavation of Curzon Khal and its adjacent branch Khal for irrigation and drainage improvement project in the district Cumilla (2<sup>nd</sup> Revised).
- 02. Administrative Ministry/Division** : Ministry of Water Resources (MoWR)
- 03. Executing Agency** : Bangladesh Water Development Board (BWDB)
- 04. Location of the Project** : District: Cumilla;  
Upazilla: Barura, Chandina & Laksham.

**05. Objective of the Project :**

The main objective of the project is given below:

- ❖ To improve irrigation facility as well as drainage congestion in the project area by re-excavation of Curzon khal and connecting branch khals.
- ❖ To increase the reservation of irrigation water in the khals as a result soil moisture content and ground water recharge of the project area will be enhanced.
- ❖ To improve FCDI facilities, transportation, fish cultivation in the project area having gross area of 28,000.00 ha and net cultivate area of 20,000.00 ha.

**06. Estimated Cost :**

(In lac Taka)

	Original	1 <sup>st</sup> Revised	Latest Revised (2 <sup>nd</sup> )
(a) Total	1624.99	1624.99	1515.91
(b) Taka	1624.99	1624.99	1515.91
(c) Foreign Currency	-		-
(d) Project Aid	-		-
(e) RPA	-		-

**07. Date of Approval :**

	PCP	PP
(a) Original	-	03-11-2015
(b) 1 <sup>st</sup> Revised	-	30-05-2016
(c) Latest Revised (2 <sup>nd</sup> )	-	25-11-2018

**08. Implementation Period :**

	Date of Commencement	Date of Completion
(a) Original	July, 2015	June, 2017
(b) 1 <sup>st</sup> Revised	July, 2015	June, 2018
(c) Latest Revised (2 <sup>nd</sup> )	July, 2015	June, 2019

				1 <sup>st</sup> revised DPP. After that, the project had to be revised again as some new branch khals were necessary for proper drainage as per request of Local Member of Parliament. The project was revised for the 2 <sup>nd</sup> time with inclusion of 3 new packages (Total 7 packages, 115.650 km re-excavation of khals)
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## 02. Cost of the Project :

(In lac Taka)

Description	Estimated Cost		Actual expenditure	Cost over-run(% of original cost)	Remarks
	Original	Latest revised			
1	2	3	4	5	6
TOTAL	1624.99	1515.91	851.62	(-) 47.59%	Due to change in design, pre and post work earth volume reduced. The joint survey conducted by IWM and Taskforce, volume of earth was reduced in some packages. Also, due to the quoted rate cost is reduced.
TAKA	1624.99	1515.91	851.62		

**03. Project Personnel:** The project was implemented by existing manpower of concerned division office of BWDB.

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

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

Field of Training/Study tour/workshop/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	Not Applicable				
b. Local	Not Applicable				

*[Handwritten signature]*

Description of procurement (goods/works/consultancy) as per bid document	Tender / Bid / Proposal Cost (in lac Taka)		Tender / Bid / Proposal		Date of completion of works / services and supply of goods	
	As per DPP	Contracted value	Invitation date	Contract signing / LC opening date	As per contract	Actual
1	2	3	4	5	6	7
3) Package ID- COM/CUR/W-03 Re-excavation of a) kalakhal from Curzon khal to UttorBhobanipur&Aganagar from km. 0.000 to km. 6.000 = 6.000 km. b) BauksartoPayalKhachakhal from km. 0.000 to km. 6.000 = 6.000 km. c) Shashiya to Barurakhal from km. 0.000 to km. 4.000 = 4.000 km. d) Jalam Bazar to Luna Kadutikhal from km. 0.000 to km. 3.000 = 3.000 km. (Total length=19.000km.)(Tender ID-47209)	374.72	238.95	07/02/16	06/06/16	30/06/17	31/05/18
4) Package ID- COM/CUR/W-04 Re-excavation of a) Modafforgonj to Narayanpurkhal from km. 0.000 to km. 3.000 = 3.000 km. b) Shayalkhali to Perptikhal from km. 0.000 to km. 3.000 = 3.000 km c) PuranKadba to Haruakhal from km. 0.000 to km. 2.500 = 2.500 km d) ShakpurDokkin to Laxmipurkhal from km. 0.000 to km. 3.000 = 3.000 km e) Lyjolakhal from km. 0.000 to km. 3.000 = 3.600 km. f) Aswaddiha to Adda char khalarMukkhal from km. 0.000 to km. 3.000 = 3.000 km. g) Shashiya to Fanuakhal from km. 0.000 to km. 3.000 = 3.000 km. (Total length=21.100km.)(Tender ID-47210)	356.42	227.33	07/02/16	06/06/16	31/05/17	31/05/18
5) Package ID- COM/CUR/W-05 Re-excavation of a) Bizra to Galimpur to Shakpur to Curzon khal from km. 0.000 to km. 5.820 = 5.820km. b) GhospaDusheema to Batua to Mughgaon Curzon khal from km. 0.000 to km. 5.175 = 5.175km c) Zorpokoria to Tarapokoria to Bekeykhal from km. 0.000 to km. 2.000 = 2.000 km d) Vaukpur to Shakpurkhal from km. 0.000 to km. 3.180 = 3.180 km (Total length=15.080km.)(Tender ID-137496)	158.146	142.33	14/11/17	20/12/18	31/05/19	31/05/19
6) Package ID- COM/CUR/W-06 Re-excavation of a) Dhulua to ChotoVauksar to Sreepurkhal from km. 0.000 to km. 3.320 = 3.320km. b) Bataswar to Kakoirtalakhal from km. 0.000 to km. 6.650 = 6.650km c) Poskoronirpasmadrasha to Hatpokoriyakhal from km. 0.000 to km. 1.270 = 1.270km d) NarayanpurShaplola to Bateswarkhal from km. 0.000 to km. 2.000 = 2.000km e) Modaffargong to Narayanpur from km. 3.000 to km. 4.175 = 4.175km (Total length=14.415km.)(Tender ID-137497)	104.852	94.37	14/11/17	20/12/18	31/05/19	31/05/19

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Description of procurement (goods/works/consultancy) as per bid document	Tender / Bid / Proposal Cost (in lac Taka)		Tender / Bid / Proposal		Date of completion of works / services and supply of goods	
	As per DPP	Contracted value	Invitation date	Contract signing / LC opening date	As per contract	Actual
1	2	3	4	5	6	7
7) Package ID- COM/CUR/W-07 Re-excavation of a) Shashiya to Mohitpur to Fakirmokamkhal from km. 0.000 to km. 3.120 = 3.120km. b) Jogdasha to Rammohan (Aghanagor to Golakata bridge to Haterhura bridge) khal from km. 0.000 to km. 4.100= 4.100km c) Adinamoor to AghanagorBijoypurkhal from km. 0.000 to km. 3.550 = 3.550 km (Total length=10.770km.) (Tender ID-137498)	121.283	109.16	14/11/17	20/12/18	31/05/19	31/05/19

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

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 :	Not Applicable			
B) Local :	Not Applicable			

## 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
Not Applicable						

## C. FINANCIAL AND PHYSICAL PROGRAMME :

### 01. (A) Original and revised schedule as per DPP:

(In lac Taka)

Financial Year	Financial provision & physical target as per original DPP				Financial provision & physical target as per latest revised DPP			
	Total	Taka	P.A.	Physical %	Total	Taka	P.A.	Physical %
1	2	3	4	5	6	7	8	9
2015-2016	228.35	228.35	-	14.05%	48.75	48.75	-	3.22%
2016-2017	1396.64	1396.64	-	85.95%	410.92	410.92	-	27.11%
2017-2018	-	-	-	-	92.55	92.55	-	6.11%
2018-2019	-	-	-	-	963.69	963.69	-	63.56%
<b>Total</b>	<b>1624.99</b>	<b>1624.99</b>	<b>-</b>	<b>100.00%</b>	<b>1515.91</b>	<b>1515.91</b>	<b>-</b>	<b>100.00%</b>

**01. (B) Revised RDPP allocation and progress:**

(In lac 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
2015-2016	50.00	50.00	-	3.22%	50.00	48.75	48.75	-	3.22%
2016-2017	800.00	800.00	-	27.11%	591.00	410.92	410.92	-	27.11%
2017-2018	201.00	201.00	-	06.11%	201.00	92.55	92.55	-	6.11%
2018-2019	300.00	300.00	-	69.66%	300.00	299.40	299.40	-	43.08%
<b>Total</b>	<b>1351.00</b>	<b>1351.00</b>	<b>-</b>	<b>100.00%</b>	<b>1142.00</b>	<b>851.62</b>	<b>851.62</b>	<b>-</b>	<b>79.52%</b>

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

Objectives as per PP	Actual achievement	Reasons for shortfall, if any
a) To improve irrigation facility as well as drainage congestion in the project area by re-excavation of Curzon khal and connecting branch khals.	Irrigation & drainage facilities of the project area have been improved.	No shortfall arises.
b) To increase the reservation of irrigation water in the khals as a result soil moisture content and ground water recharge of the project area will be enhanced.	Reservation of the irrigation water in the khals and ground water recharge of the project area is improved.	
c) To improve FCDI facilities, transportation, fish cultivation in the project area having gross area of 28,000.00 ha and net cultivate area of 20,000.00 ha.	FCDI facilities, fish cultivation facilities in the project area have been improved.	

**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) Drainage Facilities Extension	Ha (area)	28000 Ha	The project has just completed on June, 2019. The output can be estimated after a year elapse.
b) FCDI Facilities	Ha (area)	28000 Ha	



**02. Cost / Benefit :**

Item	Estimated	Actual
(1) Benefit cost ratio of the project (i) Financial (ii) Economic	2.30 : 1.00 2.68 : 1.00	Will be evaluated later by concern directorate of BWDB & IMED.
(2) Internal Rate of Return (i) Financial (ii) Economic	38.12 % 44.78 %	



**03. Please give reasons for shortfall, if any, between the estimated and actual benefit:**  
Does not arise.

**F. MONITORING AND AUDITING****01. Monitoring:**

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
<b>(a) Ministry:</b>			
Mr. Kabir Bin Anwar Secretary, Ministry of Water Resources	19/05/2018	Due to rainfall the excavation work is not going on.	All khals should be re-excavated as per specification.
ShamimAraKhatun Joint Secretary (Development), Ministry Water Resources;	23/04/2019	For road, trees there are some problem in excavation.	Progress of the work satisfactory.
AfsanaBilkis Deputy Secretary, Ministry of Water Resources	25/09/2019	Work is going on, no aquired land for deposit cutting earth.	Progress satisfactory.
<b>(b) IMED:</b>			
Mr. Md. Jahangir Kabir DG, IMED	29/06/2019	The work is satisfactory. The project components are completed.	
<b>(C) BWDB:</b>			
Mr. Md. Mahfuzur Rahman Director General, Bangladesh Water Development Board.	07/01/2019 26/04/2019	Because of many obstacles, like trees, house, mosque etc. khal excavation work become difficult.	Khal should be re-excavated as per design and specification. Also, afforestation should be completed within project duration.  Project Should be completed in time.





Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
Mr. Kazi Tofail Hossain Chief Monitoring BWDB, Dhaka	07/07/2017	The work is going on.  Because of many obstacles, khal excavation work become difficult. Also, there is no acquired land for keeping spoiled earth.	Khal should be re-excavated as per design and specification.
Mr. Mossadeque Hossain Chief Engineer East Zone, BWDB, Cumilla.	06/11/2016	The work is going on.	Khal should be re-excavated as per design and specification.
Mr. Babul Chandra Shil Chief Engineer East Zone, BWDB, Cumilla.	14/02/2018 19/05/2018 01/02/2019	The work is going on.  Because of many obstacles, khal excavation work become difficult. Also, there is no acquired land for keeping spoiled earth.	DPP have to revised within June 2018.  Project must be completed in time.
Mr. Md. Zohirul Islam PD, BWDB	30/12/2017 05/01/2018 14/02/2018 30/04/2018 19/05/2018 26/06/2018 14/07/2018 01/09/2018 19/10/2018 22/11/2018 14/12/2018 07/01/2019 12/02/2019 04/03/2019 08/04/2019 02/05/2019	Due to road, trees, mosque, graveyard etc. at canal site, cutting of earth is difficult.	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.



Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4
<b>(D) Midterm Evaluation:</b>			
1. Mr. Prashanta Kumar Chakraborty Chief, Agriculture, Water Resources and Rural Institutions, Planning Commission	25/01/2019	1) There are many obstacles like school, building madrasa and other infrastructures present at the bank of khals. The work is completed in this adverse condition. 2) There was no acquired land for keeping spoiled earth. So, spoil earth management could not be done properly. As a result spoiled earth carried by surface runoff.	1) Projects should be completed in time.
2. Mr. Abdul Azim Chowdhury Joint Chief, Irrigation Wing, Agriculture, Water Resources and Rural Institutions, Planning Commission	26/01/2019		2) Proper spoil earth management should be ensured.
3. Mr. Mantu Kumar Biswas Joint Chief, Planning Wing, Ministry of Water Resources			3) Khal re-excavation have to be completed as per design and specification.
4. Mr. Md. Zohirul Islam Project Director, Bangladesh Water Development Board.			
5. Mr. A K M Abul Kalam Azad Deputy Chief, Irrigation Wing Agriculture, Water Resources and Rural Institutions, Planning Commission			
6. Mr. Md. Jane Alam Deputy Chief Ministry of Water Resources			
7. Mr. Md. Abdul Latif Executive Engineer, Cumilla O&M Division, Bangladesh Water Development Board.			
8. Mr. Md. Abu Bakkar Siddique Executive Engineer, Office of Chief Monitoring, Bangladesh Water Development Board.			
9. Ms. Umme Salma SDE, Design Circle-4, BWDB			
10. Mr. Mohammad Mazharul Islam Chowdhury Assistant Chief, Ministry of Water Resources			
11. Mr. Mahid Al Hasan Assistant Chief, Planning Commission			
12. Ms. Lasmi Chakma Assistant Director, IMED			

## **G. DESCRIPTIVE REPORT**

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

#### **1.1 Background:**

The project comprises with twenty-four nos. khal of which Curzon khal is the main khal and its length is about 35.000 km. The Curzon khal originates from Harikhola Mazar of Chandina Upazilla at Dhaka - Chittagong Highway passes through Barura Upazilla-Modaffargonj and finally falls into the river of New Dhaka at kalikapur in Laksamupazilla. The Twenty-four connecting branch khals originates from both sides of Curzon khal and ultimately falls into the main Curzon khal. Most of the khals are situated in barua&Chandia Upazilla. There is a 7-Vent regulator at Mudaffargonj at km.5.200 of Curzon khal. This regulator is only vital structure to regulate water from the catchment area of the project. At present the regulator is workable and it works satisfactorily. The project beneficiaries utilize the regulator in dual functions likely for drainage during rainy season is flood time and for reservation of irrigation water during dry season. People also reserves water for supplementary irrigation. The khals of the said project area carries tremendous silt/sand/clay from surrounding field, homestead and also from the Lalmaipahar. For getting effective result, the Curzon khal have been re-excavated partially during the year 1975-76, 1980-81 & 2005-06 under Food for Works & SSFCDI project respectively within the allocated fund.



As the khals of the project area is not re-excavated for a long time, all the khals are silted up, it loses its drainage capacity as well as reserving capacity. As a result, flash flood occurs in the project area in each and every year. At the same time the project area has been in undated for certain period. In this circumstance, the stockholder fails to cultivate the various types of crops in proper time in they grow in late period. For this season, crop production of the project area hampers seriously.

In the meantime the Honorable M.P., Constituency-256, Cumilla-8 submitted two D.O. letters in favor of honorable minister, ministry of Water Resources on dated 20-05-2014. Accordingly, the higher authority instructed to submit a DPP. In this regard a technical committee of 6 members have already been formed by the board vide memo. no. বাপাউবো(সচি)/পরি-১/বিবিধ-৩/২০০২(৮ম খণ্ড)/৪০ তারিখ ২২-০৫-২০১৪ইং to proper study of the site & submission of a technical report in connection with the preparation of DPP for the proposed project. Accordingly, the committee visited the site and requested the field officials to furnish a complete design data of all the khals in present situation for re-design. Considering the proposed project cost, pre-project condition and other relevant features, all the criteria & Guide line giver, in the TOR, the technical committee have already been submitted a report on 21-08-2014 recommending the proposed project is feasible and sustainable.

After implementation of the project, it provided flood control and drainage facilities to a gross area 28,000 ha and irrigation facilities to 20,000 ha. The main components of the projects are Re-excavation of 115.650 km khal for the implementation of the project all the khals have been re-designed on the basis present field data. The approved design of all the khals have been collected from design Circle -IV BWDB. Dhaka on dated 11-08-2014. The estimates for re-excavation of all khal have been framed considering the approved design.

#### **1.2 Justification/Adequacy:**

The project is located in Chandina, Barura and Laksamupazila of Comilla district. The main component of the project is the re-excavation of 24 nos. khal. As a result of implementation of the project, 20000 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.



### 1.3 Objectives:

- The main objective of the project is given below:

The main objective of the proposed project is to improve irrigation facility as well as drainage congestion in the project area by re-excavation of Curzon khal and connecting branch khals.

- To increase the reservation of irrigation water in the khals as a result soil moisture content and ground water recharge of the project area will be enhanced.
- However the gross area of the project is 28,000.00 ha and net cultivate area is 20,000.00 ha. will get FCDI facilities and at the same time transport & fish cultivation facilities will be improved.

### 1.4 Project revision with reasons:

The project has been undertaken with a view to improve Irrigation facility as well as drainage congestion in the project area by re-excavation of Curzon khal and connecting branch khals. It was prepared total estimated cost of Tk. 1624.99lac covering the implementation period from July, 2015 to June 2017. The project was approved by the Honorable minister of planning on 01.11.2015. Later on its approval letter was given by the Planning commission on 03.11.2015.

As per original DPP, 12 nos. khal was proposed to re-excavate at a length of 75.400km. and 16 packages were proposed for the re-excavation work. Tender has been invited for 4nos. packages for implementation of 29.800km. re-excavation in that year.

In that time, Secretary, Ministry of Water Resources advise on 18.01.2016 to rearrange the number of packages as already proposed 16 packages are too small to implement properly. It is anticipated that financially and technically capable contractors will participated in the bidding process which will ensure qualitative and timely excavation of the work. Accordingly, 1<sup>st</sup> DDPP has been prepared proposing 4 packages for re-excavation work of 75.400 km. in place of 16 packages. Furthermore, implementation period was to be extended by 1(one) year for proper execution of the project. All other scenario i. e cost, item, objective etc. remain unchanged.

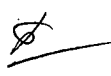
For the circumstances stated above, 1<sup>st</sup> RDPP costing 1624.99 lac which excavated length were 75.400km. and 4 nos. packages and implementation period of project up to June 2018 were approved vide memo no. 42.00.0000.042.14.019.14-90 dated 30.05.2015 of Planning section-05 Ministry of Water Recourses.

As per 1<sup>st</sup> approved RDPP total cost was Tk. 1624.99 lac. Where 75.400 km. was re-excavation works in 4 nos. packages with Tk. 1595.99 lac. But the total contract amount of 4nos. packages became Tk. 1119.95 lac. As a result Tk. 476.04 lac was saved.

In the meantime, The honorable Local MP has given a DO letter vide diary no. 63 dated 15/02/2017 of Director General, Bangladesh Water Development Board for revision of DPP in the order to include additional 12 nos. branch khal. So the length of additional 12 nos. khal is 40.250 km. the 2<sup>nd</sup> RDPP has been prepared with the approved design from BWDB, design circle-04. The estimated cost of 12 nos. khals remains within the limit of approved 1<sup>st</sup> RDPP. As per 2<sup>nd</sup> RDPP, 12 nos. khal re-excavation length became 40250km and 03 nos. packages has been proposed re-excavation work.

A technical committee in this regard has been formed by BWDB. Accordingly, the Technical committee visited the project area and submitted a report recommendation for implementing the additional 12 nos. khal. This RDPP has been formulated on the basis of the recommendation of the Technical committee.

For the circumstances stated above, 2<sup>st</sup> RDPP costing 1515.91 lac which excavated length were



115.650km. and 7 nos. packages and implementation period of project up to June 2019 were approved vide memo no. 42.00.0000.042.014.019.2014(part-1)-260 dated 09.12.2018 of Planning section-05 Ministry of Water Recourses.

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

As a target of the project, 24 nos. khal were re-excavated. The project area has been protected from advanced 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. The design of the 4 nos. khal including Curzon khal of the project are reviewed, due to demand of steaks holder and the schedule of rates were also unchanged.


3	<b>Brief description on planning and financing of the project and its applicability.</b>		
	<b>Project Identification</b>		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 be solved these problems through re-excavation of Curzon and its adjacent branch khal this project was taken.  A technical committee which was formed by BWDB were recommended prepared and implemented the project.
	<b>Project Preparation</b>		Addressing the above problems, Cumilla O&M Division, BWDB Comilla prepared the original DPP on the basis of the report of technical committee consisting Re-excavation of Curzon Khal and its adjacent branch Khal for irrigation and drainage improvement project in the district Cumilla.
	<b>Appraisal</b>		The project was appraised by Honorable minister of planning on 01.11.2015. Later on its approval letter was given by the Planning commission on 03.11.2015.
	<b>Credit Negotiation</b>		N/A
	<b>Credit Agreement</b>		N/A
	<b>Credit Effectiveness</b>		N/A
	<b>Loan Disbursement</b>		N/A
	<b>Loan Conditionalities</b>		N/A
	<b>Project Approval</b>		The project was approved by Planning commission vide memo no 20.357.014.01.03.160.2015.88 dated 03.11.2015.
	<b>Others (if any)</b>		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, 20000 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.



#### **4.3 O & M programme of the project:**

Operation and Maintenance programme will be arranged from non-development revenue budget of BWDB.

#### **4.4 Impact of the project**

##### **4.4.1 Direct**

The project has provided drainage improvement facilities to about 28000 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 organize dry season irrigation facilities at their own initiative for more crop production retaining water in khal and making proper utilization of water as one of the significant project objectives.

##### **4.4.2 Indirect**

Increase in agricultural production, business facilities as well as self-employment opportunity increased i.e. socio-economic development will be the indirect benefit.

#### **4.5 Transfer of Technology and Institutional Building through the project: N/A**

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

Employment opportunity for men and women was created at the implementation period of the project.

#### **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 the achievements 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 enhanced in many ways.**


At post project condition, due to the re-excavation of the khal, water logging has been eliminated in the project area and during the dry season, additional crops are being produced through cultivation through water of khals.

#### **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 has been completed as per approved DPP and as per design & specifications. It will be a sustainable project.



#### 4.13 Contribution to poverty alleviation /reduction


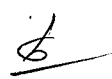
Project activities created employment opportunities which would contribute to the achievement in poverty alleviation

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

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

#### 4.15 Contribution of Micro-credit programmes and Comments on overlapping with any NGO activities: N/A

5.	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		N/A
5.5	Consultancy		N/A
5.6	Contractor		N/A
5.7	Manpower		N/A
5.8	law & Order		N/A
5.9	Natural calamity		Due to some physical obstacles such as households, roads (kacha, Pacca) alongside khals, Gravyard, School, College, Mosque, Mondir, big trees and other structures, some portion of the Khals could not be excavated as per design. So, the quantity of excavated earth volume is reduced to some extent. On the other hand due to heavy rainfall the spoil earth again fall in to the khal. As the nature of soil is silty, loam sliding of side slope of khal occur. The taskforce team were taken post work measurement after monsoon. As a result the evaluated earth volume was less than the actually excavated earth volume.
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		N/A

5.15	Project Supervision/Inspection		N/A
5.16	Delay in Decision		As per original DPP, 12 nos. khal was proposed to re-excavate at a length of 75.400km. and 16 packages were proposed for the re-excavation work. Tender has been invited for 4nos. packages for implementation of 29.800km re-excavation in that year.
			At that time, The Secretary, Ministry of Water Resources advise on 18.01.2016 to rearrange the number of packages as already proposed 16 packages are too small to implement properly. It is anticipated that financially and technically capable contractors will be participated in the bidding process which will ensure qualitative and timely excavation of the work. Accordingly, 1 <sup>st</sup> DPP has been revised proposing 4 packages for re-excavation work of 75.400 km. instead of 16 packages. Furthermore, implementation period was to be extended by 1(one) year for proper execution of the project. All other scenario i. e cost, item, objective etc. remain unchanged.
5.17	Transport		N/A
5.18	Training		N/A
5.19	Approval		N/A
5.20	Others.		Due to some physical obstacles such as households, roads(kacha, Pacca) alongside khals, Gravyard, School, College, Mosque, Mondir, big trees and other structures, some portion of the Khals could not be excavated as per design. So, the quantity of excavated earth volume is reduced to some extent. On the other hand due to heavy rainfall the spoil earth again fall in to the khal. As the nature of soil is silty, loam sliding of side slope of khal occur. The taskforce team were taken post work measurement after monsoon. As a result the evaluated earth volume was less than the actually excavated earth volume.

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


Re-excavation of Curzon Khal and its adjacent branch khal for irrigation and drainage improvement project in the district Cumilla project was taken to improve the irrigation facility and drainage congestion of the project area. In original approved DPP 12 nos drainage khal (16 Packages) with 75.400 km re-excavation work was considered. Then 16 packages were converted to 4 packages in revised 1<sup>st</sup> DPP as per request of Local Member of Parliament. As revision of DPP took time, thus beginning of the physical works of the project delayed.

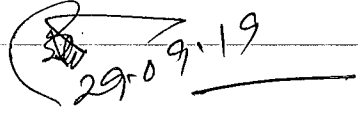
The project was revised again with three new additional packages (Total 7 package, 115.650 km re-excavation of khals) for proper drainage. Also, design of drainage canals were revised that time. In the whole project period taskforce monitor all the work to ensure transparency. They conducted pre-work and post-work survey and bill was paid according to their measurement.

During implementation, problems related to spoil earth management was faced. Also, there were lots of obstacles need to overcome during excavation work. Each of these problems were so unique that they had solved considering local field conditions and it's own merit. Finally, all the works completed within stipulated time period. 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 by controlling the regulator located downstream of Curzon Khal. Thus crop production is increased. As re-excavation work facilitates good drainage facility, thus the project area is now free from waterlogging in the monsoon period.

The Project has been completed successfully and beneficiaries are getting full benefit from the Project.

Date:


  
(Md. Zohirul Islam)  
Superintending Engineer  
Cumilla O&M Circle  
BWDB, Cumilla  
&  
Project Director.

  
(Md. Abdul Latif)  
Executive Engineer  
Cumilla O & M Division  
BWDB, Cumilla.

7. Remarks/Comments of Agency Head

Re-excavation of curzon khal and it's branch khals across 115.65 km length have ensured drainage & irrigation facilities upto 28000 Ha area. Water carrying & reservation capacity of the khals have increased and it has also facilitated ground water table recharging. Apart from FDI facilities navigation, fish cultivation etc benefits have ensured positive impact on stakeholder's livelihood.

Date : .....

  
02/09/2024  
(Md. Mahfuzur Rahman)  
Signature and Seal  
Director  
BWDB, Dhaka.

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



**Date :** .....

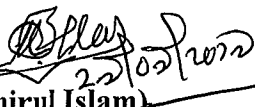
**Signature and Seal**

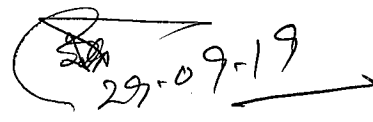
## Annexure-A Reason for Deviation

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- 1) Due to change in design, revised estimate has been prepared according to taskforce pre-work measurement. According to that, earth re-excavation target was 15.16 lac cum.
- 2) As there was no provision of land acquisition in this project, excavated earth was kept alongside bank of khals. Due to some physical obstacles such as households, roads (kacha, Pacca) Graveyard, School, College, Mosque, Mondir, big trees and other structures some portion of the Khals, could not be excavated as planned in the project. Apart from that entire length have been excavated as planned. The procuring entity made payment of the bills as per measurement taken by concern division office In 2017, pre-monsoon rainfall started since May, 2017. During heavy rainfall in pre-monsoon & monsoon of 2017, the spoil earth kept on banks fall back again to the khals. As a result, the khals got partially silted up. In these consequences, when taskforce took post work measurement after monsoon, the evaluated earth volume excavated was less than the actual excavated volume.
- 3) In the financial year 2018-19 fund is demanded by the PD as per requirement. But in the year 2018-19 sufficient fund was not allocated. The Contractors of new three packages would perform well, so that progress of these packages came out better. It may be mention that, the formation of District Water Management & Development Committee have ensured better assistance from district administration to overcome ground obstacles. Hence, in FY 2018-19, implemented work's bill were more than RADP allocation. For this reason, total taka 44.15 Lac remained due after full utilization of RADP allocation. The due amount will be paid from Non-Development Revenue budget.

Date:

  
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