

**GOVERNMENT OF THE PEOPLE'S REPUBLIC OF
BANGLADESH**

MINISTRY OF WATER RESOURCES



BANGLADESH WATER DEVELOPMENT BOARD

**PROJECT COMPLETION REPORT (PCR)
IMED 04/2003 (Revised)**

**Name of the Project : Feasibility Study with ESIA for Resuscitation of
Ichamoti River in Pabna District**

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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 | Feasibility Study with ESIA for Resuscitation of Ichhamoti River in Pabna District (Project code- 222002800) |
| 02. | Administrative Ministry/Division | Ministry of Water Resources |
| 03. | Executing Agency | Bangladesh Water Development Board |
| 04. | Location of the Project | Pabna |
| 05. | Objective of the Project: | |

The main objective of the study is to successfully evaluate the scopes and feasibility of resuscitation of Ichhamoti River. The specific objectives of the project are:

- Assessment of technical viability, economic feasibility, environmental acceptance and social benefits for revival of flow through Ichhamoti River in Pabna district.
- Re-establishment of link of Ichhamoti river with the mighty river Ganges.
- Identification of hindrances, obstacles and encroachments along both banks of Ichhamoti river and recommendations to uproot all the impediments to ensuring flow through the channel.

- Working out suitable strategy for re-excavation of the silted up portion of the Ichhamoti River and management of dredged spoil.
- Test different options (considering 'with' and 'without' that proposed in the Feasibility Study for Ganges Barrage Project) to keep the Ichhamoti as a flowing channel throughout the year. In addition to this, foreseeing the future extent of Ichhamoti river with or without Ganges Barrage scenario and work out recommendations for both the cases with a view to maintaining flow through it is another objective.
- Assessment of viability and demarcation & method of envisaged irrigation scopes that might be provided through flow recovery along Ichhamoti River.
- Identification of affects and effects of poor sewerage system of Pabna town and suggest outline remedies to be followed by concerned authorities.

06. Estimated Cost :

	Original	(In lakh Taka)
(a) Total	344.00	344.00
(b) Taka	344.00	344.00
	Latest Revised	

07.	Date of Approval	:	PCP/PFS	PP
		:	28.11.2017	
		:	10.12.2018	

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09. Financing Arrangement (Source-wise):

a) Foreign Financing : Not Applicable

b) GOR:

9.2 Utilization of Project Aid: Not Applicable

2

9.3 Re-imburseable Project Aid (RPA) : Not Applicable

(In lakh Taka)

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

B. IMPLEMENTATION POSITION

01. Implementation Period:

Implementation Period as per PP	Original	Latest Revised	Actual Implementation period	Time Over-run (% of original implementation period)	Remarks
1	October, 2018- December 2018 (15 Months)	October, 2018 - June 2019 (21 Months)	October, 2018 - June 2019 (21 Months)	6 Months (40%)	Implementation period was extended without increasing cost due to some unprecedented technical difficulties, such as closure of main connecting channel of Ichhamoti to Ganges for Roopur Nuclear Power Plant Construction, proposal for new channel, etc.
2			3	4	5

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	344.00	-	326.83	-	The actual contract value with the consultant was less than the estimated cost.
TAKA	344.00	-	326.83	-	
PA	-	-	-	-	

03. Project Personnel:

Sanctioned strength as per PP	Manpower employed during execution	Manpower requirement for O&M as per PP	Status of the existing manpower		Others	Manpower Employed
			Existing manpower for O & M			
1	2	3	4	N/A	5	
Officer (s)	13	N/A	N/A	-	11	2

Sanctioned strength as per PP	Manpower employed during execution	Status of the existing manpower		Others	Manpower Employed
		Manpower requirement for O&M as per pp	Existing manpower for O & M		
Staff(s)	14	N/A	N/A	-	10
Total :	27	N/A	N/A	-	21
The Study Project was implemented using existing manpower of Directorate of Planning-I, BWDB, Dhaka in addition to their regular works.					

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

Field of Training	Provision as per PP		Actual		Remarks
	Number of person	Man - months	Number of person	Man - months	
1	2	3	4	5	6
Study tour/workshop/ Seminar etc.					
a. Foreign	-	-	-	-	
b. Local	-	-	-	-	

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

Items of work (as per PFS)		Unit	Target (as per PFS)		Actual Progress		Reasons for deviation (±)
			Physical	Financial	Physical	Financial	
1	2	3	4	5	6	7	
A. Revenue							
1. Honorarium/Fees/ Remuneration (Code 3111332)	LS	100%	3.50	62%	2.17		Contract price for consultancy service was less than the approved cost. Some other supporting components needed not to be used fully.
2. Seminar, Conference Expenses (Code: 3211111)	LS	100%	10.00	82%	8.13		
3. Stationery, seals & stamps (Code :3255104)	LS	100%	1.00	100%	0.99		
4. General Supplies (Code:3256101)	LS	100%	0.50	100%	0.49		
5. Consultancy (Code: 3257101)	LS	100%	328.00	100%	314.21		
6. Repair & Maintenance of Motor Vehicle (Code: 3258101)	LS	100%	1.00	84%	0.84		
Sub-total (Revenue):			344.00	100%	326.83		
B. Capital	-	-	-	-	-		
Grand-Total		100.00 %	344.00	100%	326.83		

5

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

07. Procurement of Transport (in Nos.): Not Applicable

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
Fazlur Rashid Superintending Engineer Grade-4; 50,000-71,200	Full Time		Yes	21.02.2018	11.11.2018	
Dr. Shama! Chandra Das	Full Time		Yes	11.11.2018	30.06.2019	
Superintending Engineer Grade-4; 50,000-71,200				(Joining date as	Director, Planning-1) 07.01.2019	Appointment (PD date)

01. (a) Original and revised schedule as per PFS :

	Description of items	(as per PP)	Quantity procured with date	d to O & M with date	Transferre	Disposed off as per rule with date	Balance	Remarks
1		2	3	4	5	6	7	

09. Construction/Erection/Installation Tools & Equipment: Not Applicable

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 :	-	-	-	
b) Local	72	72	72	

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

Description of procurement (goods/works)	Date of completion of works/services and supply of goods	As per bid document /consuctancy)	As per PFS	Tender/Bid/Proposal Cost (in lakh Taka)	Tender/Bid/Proposal	Invitation date	Contract signing/L.C opening date	As per contract	Actual
1	2	3	4	5	6	7	8	9	10
Consuctancy Services for "Feasibility Study with ESA for Resuscitation of Ichamoti River in Pabna District"	328.00	321.41	13.03.2018	30.04.2018	Original: 30.12.2019 Revised: 30.06.2019	27.06.2019			

01. (b) Revised ADP allocation and progress :

Financial	Year	Revised Allocation & target			Taka release	Expenditure & physical progress		
		Total	Taka	P.A.		Total	Taka	P.A.
					%			
	1	2	3	4	5	6	7	8
	2017-18	37.00	37.00	-	15%	37.00	33.10	33.10
	2018-19	305.00	305.00	-	85%	296.87	293.73	293.73
	Total	342.00	342.00	-	100%	333.87	326.83	326.83
								100%

(In lakh Taka)

D. ACHIEVEMENT OF OBJECTIVES OF THE PROJECT

Reasons for shortfall, if any	Objectives as per PP/PFS		Actual achievement	
	Assessment of technical viability, economic feasibility, environmental acceptance and social benefits for revival of flow through Ichamoti River in Pabna district.	Re-establishment of link of Ichamoti river with the mighty river Ganges.	Identification of hindrances, obstacles and encroachments along both banks of Ichamoti river and recommendations to uproot all the impediments to ensuring flow through the channel.	Working out suitable strategy for re-excavation of the silted up portion of the Ichamoti River and management of dredged spoil.
	Test different options (considering 'with' and 'without' that proposed in the Feasibility Study for Ganges Barrage Project) to keep the Ichamoti as a flowing channel throughout the year. In addition to this, foreseeing the future extent of Ichamoti river with or without Ganges Barrage scenario and work out recommendations for both the cases with a view to maintaining flow through it is another objective.	Assessment of viability and demarcation & method of envisaged irrigation scopes that might be provided through flow recovery along Ichamoti river.	Identification of affects and effects of poor sewerage system of Pabna town and suggest outline remedies to be followed by concerned authorities.	Affects of poor sewerage system of Pabna town has been identified and remedial measures have been suggested.
	Viability of envisaged irrigation scopes has been assessed.			
	Different options have been tested before finalization of the recommendations.			
	Re-excavation plan along with dredged management plan has been prepared.			
	Recommendations for re-establishment of the link have been prepared.			
	Technical viability, economic feasibility, environmental acceptance and social benefits have been assessed.			
	Recommendations for re-establishment of the link have been prepared.			
	Hindrances, obstacles and encroachments along both banks of Ichamoti river have been identified and recommendations have been prepared for uprooting these.			
	Working out suitable strategy for re-excavation of the silted up portion of the Ichamoti River and management of dredged spoil.			
	Test different options (considering 'with' and 'without' that proposed in the Feasibility Study for Ganges Barrage Project) to keep the Ichamoti as a flowing channel throughout the year. In addition to this, foreseeing the future extent of Ichamoti river with or without Ganges Barrage scenario and work out recommendations for both the cases with a view to maintaining flow through it is another objective.			
	Assessment of viability and demarcation & method of envisaged irrigation scopes that might be provided through flow recovery along Ichamoti river.			
	Identification of affects and effects of poor sewerage system of Pabna town and suggest outline remedies to be followed by concerned authorities.			

E. BENEFIT ANALYSIS

01. Annual Out-put: *Not Applicable* for this Study Project.

The project is a Study Project.

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)			
(b)			
(c)			
(d)			

02. Cost / Benefit: *Not Applicable* for this Study Project

Item	Estimated	Actual
(1) Benefit cost ratio of the project (i) Financial (ii) Economic		
(2) Internal Rate of Return (i) Financial (ii) Economic		
(ii) Economic		

03. Please give reasons for shortfall, if any, between the estimated and actual benefit:
Not Applicable

F. MONITORING AND AUDITING

Monitoring: *Not Applicable*

Name & designation of the inspecting official	Date of Inspection	Identified Problems	Recommendations
1	2	3	4

(a) Ministry / Agency:

(b) IMED:

0.2. Auditing during and after Implementation:

2.1. Internal Audit: *No audit conducted yet.*

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

2.2. External Audit: *No audit conducted yet.*

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

G. DESCRIPTIVE REPORT

1. General Observations/Remarks of the Project on:

1.1 Background

According to the information furnished in Rivers of Bangladesh, Hydrology Wing, BWDB, Dhaka, the Ichamoti River originates from the Ganges River at Bharara in Pabna Sadar Upazilla of Pabna district. It flows through Pabna town, Atghoria, Santhia and Bera. It finally falls into the Hurasagar River at Bera Pourasabha. Atrai (Pabna) is the only distributary of Ichamoti river. The length of the river is about 44 km. Maximum width was 140 meters, minimum width was 30 meters with average width of around 120 meters. Ichamoti river is meandering in nature. Being a seasonal river, it had flow of around 40 m³/sec on the months of July to September.

But at present a cross-dam has been constructed at Shilaitghat u/s of the Ichamoti river. So no water comes from Ganges river. Beside this, Ichamoti river is closed d/s of the river at Madhupur for irrigation purpose of Pabna Irrigation Project.

This is why at present Ichamoti River is totally a dead river. Rain water is the only source of water for the river. For measurement of WL, there are two (02) hydrological stations of BWDB named SW 126-Pabna (NTWL) and SW 127-Ataikula (NTWL). There is one BWDB Project named Pabna Irrigation and Rural Development Project at the vicinity of the river. Important establishments along this river are Pabna Pourasabha, Bera Pourasabha, Sathia Pourasabha, Pabna town, Bhangura Hat and Banoarinnagar Hat.

All types of waste water from household beside the river are being disposed in the river. So dumping of Pabna own effluents aggravates the situation. Without addressing the problem, the river is at risk of losing its natural source. The water quality will degrade and environment will face degradation. That's why, the study has been taken up for revival of the Ichamoti river course and conservation of environment at the vicinity of the river.

1.2 Justification/Adequacy

The Ichamoti River has long been disconnected from the Ganges River owing to the combined effect of siltation and dumping of wastes from the habitation of Pabna town. A cross-bundh, constructed on the river at Shilaighat, accelerated the filling up of the river. Besides this, the river was further blocked by a closure at Madhpur for irrigation purpose. Due to this effect, the Ichamoti has assumed such dilapidated condition in and around the Pabna town. Nowadays, the Ichamoti River is nothing but a standing water body containing water hyacinth and wastes, the sources of offensive odor and breeding of mosquitoes/insects causing sufferings to the local people in many ways. The non-flowing condition of the Ichamoti is thought to be one of the major causes of water logging in the Pabna town.

In monsoon, run-off generated from rain water and entire wastes of Pabna town gets dumped on to this river leading to gradual silting up of the bed level with rapid decrease in the conveyance capacity of the river cross-section. Loss of connection of Ichamoti river with Ganges is dominating factor in accelerating such sorrow state of the river course.

To save Ichamoti River, an open discussion was held on 05-09-2016 at the conference room of the Deputy Commissioner (DC), Pabna under the chairmanship of DC, Pabna. From detailed discussion, many key points relating to the present scenario had been unearthed likewise poor, improper or no waste management or disposal system of Pabna town, leasing of a portion of river for culture fish habitat at Malanchi area by Department of Fisheries etc. Multifarious suggestions, requests, demands and recommendations had been made during the discussion such as cancellation of lease of different portions of river for culture fish habitat, re-institution of flow along Ichamoti river up to its outfall at Hurasagar river through river excavation, demarcation of river course and its vicinity with enlisting and uprooting all the land grabbers, inclusion of two (02) unused pump houses of Bera Irrigation scheme to keep Ichamoti river flowing, in-depth investigation of situation of river course with its both banks from Fakirpur Ghat through Malanchi to Square Bridge, putting a full-stop to dumping of wastes on to Ichamoti river etc. One of the major recommendations was re-establishing connection between Ganges and Jamuna through Ichamoti river. The discussion concluded with summary of resuscitation of flow through Ichamoti river, increasing conveyance capacity through re-excavation activities, beautification along both banks of river through uprooting the land grabbers and constructing foot paths, construction of cross-drainage structures like bridges at necessary locations retaining full size of the river width, re-establishment of connectivity of Ichamoti river with both Ganges and Jamuna rivers.

Another discussion session was held on 25-09-2016 on the eve of "International Rivers Day" at the conference room of the DC, Pabna District under the chairmanship of the DC, Pabna. Several important decisions were made involving demarcation of river boundary at both banks with the help of c/s and r/s mouza maps (to be implemented by District Settlement Office/ Assistant Commissioner (Land)/ Bangladesh Water Development Board, Pabna), enlisting of all the unauthorized encroachments and taking necessary action for uprooting them (to be implemented by Additional District Commissioner (Revenue)/ Assistant Commissioner (Land)/ Bangladesh Water Development Board, Pabna/ District Parisad, Pabna) and reinstatement of conveyance capacity of river Ichamoti through taking up of dredging, construction of foot-paths along both banks of Ichamoti river for establishment of

Urban river course, construction of bridges and other cross-drainage structures at suitable locations, afforestation and revival of flow of Ichamoti river through feasibility study (to be implemented by Bangladesh Water Development Board, Pabna). In response to the problems and discussions made on the present scenario, necessity of taking up the task is felt and this TOR has been made.

1.3 Objectives

- The main objective of the study is to successfully evaluate the scopes and feasibility of resuscitation of Ichamoti River. The specific objectives of the project are:
- Assessment of technical viability, economic feasibility, environmental acceptance and social benefits for revival of flow through Ichamoti River in Pabna district.
 - Re-establishment of link of Ichamoti river with the mighty river Ganges.
 - Identification of hindrances, obstacles and encroachments along both banks of Ichamoti river and recommendations to uproot all the impediments to ensuring flow through the channel.
 - Working out suitable strategy for re-excavation of the silted up portion of the Ichamoti River and management of dredged spoil.
 - Test different options (considering 'with' and 'without' that proposed in the Feasibility Study for Ganges Barrage Project) to keep the Ichamoti as a flowing channel throughout the year. In addition to this, foreseeing the future extent of Ichamoti river with or without Ganges Barrage scenario and work out recommendations for both the cases with a view to maintaining flow through it is another objective.
 - Assessment of viability and demarcation & method of envisaged irrigation scopes that might be provided through flow recovery along Ichamoti river.
 - Identification of affects and effects of poor sewerage system of Pabna town and suggest outline remedies to be followed by concerned authorities.

1.4 Project revision with reasons

Original PSP/PFS: October, 2017- December, 2018.	
Revised PSP/PFS: October, 2017- June, 2019.	Implementation period was extended without increasing cost due to some unprecedented technical difficulties. The main connecting channel with Ganges is closed for Roopur Nuclear Power Plant construction, so the consultants required additional time for planning new connecting channels and details study of these channels.

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

Ichamoti river of Pabna district poses a unique characteristic that it has connection with two major rivers Ganges and Jamuna. Ichamoti River originates from the Ganges River at Bharara in Pabna Sadar Upazilla of Pabna district. It flows through Pabna town, Atghoria, Santhia and Bera. It finally falls into the Hurasagar River at Bera Pourasabha. Atrai (Pabna) is the only distributary of Ichamoti river. The length of the river is about 44 km. Maximum width was 140 meters, minimum width was 30 meters with average width of around 120

40 m³/sec on the months of July to September.

But at present a cross-dam has been constructed at Shitlaighat u/s of the Ichamoti river. So no water comes from Ganges river. Beside this, Ichamoti river is closed d/s of the river at Madhupur for irrigation purpose of Pabna Irrigation Project. Besides these, all types of waste water from household beside the river are being disposed in the river. So dumping of Pabna own effluents aggravates the situation. Presently, the river has become almost dead.

The miserable condition of Ichamoti River was discussed in different forum of government agencies and civil society. Everyone felt for strong urge to take initiatives to revive this river.

This study has been taken up for revival of the Ichamoti river course and conservation of environment at the vicinity of the river.

According to the original PFS the project implementation period of the study project was from October, 2017 to December, 2018. But the implementation period was extended without increasing cost due to some unprecedented technical difficulties. The main connecting channel with Ganges is closed for Roopur Nuclear Power Plant Construction, so the consultants required additional time for planning new connecting channels and details study of these channels. The time extension approval letter was issued on 10.12.2019 vide memo no 42.00.0000.039.14.020.17-429 by MoWR. Revised implementation period was approved as October, 2017 to June, 2019.

The contract price of the consultancy service was less than the approved cost. It lessened the expenditure. The expenditure of the project is BDT 326.83 Lakh and achievement is 100%. The project has been completed within the approved time.

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

◆ Project Identification

To save Ichamoti River, an open discussion was held on 05-09-2016 at the conference room of the Deputy Commissioner (DC), Pabna under the chairmanship of DC, Pabna. From detailed discussion, many key points relating to the present scenario had been unearthed likewise poor, improper or no waste management or disposal system of Pabna town, leasing of a portion of river for culture fish habitat at Malanchi area by Department of Fisheries etc. Multifarious suggestions, requests, demands and recommendations had been made during the discussion such as cancellation of lease of different portions of river for culture fish habitat, re-installation of flow along Ichamoti river up to its outfall at Hurasagar river through river excavation, demarcation of river course and its vicinity with enlisting and uprooting all the land grabbers, inclusion of two (02) unused pump houses of Bera Irrigation scheme to keep Ichamoti river flowing, in-depth investigation of situation of river course with its both banks from Fakirpur Ghat through Malanchi to Square Bridge, putting a full-stop to dumping of wastes on to Ichamoti river etc. One of the major recommendations was re-establishing connection between Ganges and Jamuna through Ichamoti river. The discussion concluded with summary of resuscitation of flow through Ichamoti river, increasing conveyance capacity through re-excavation activities, beautification along both banks of river through uprooting the land grabbers and constructing foot paths, construction of cross-drainage structures like bridges at necessary locations retaining full size of the river width, re-establishment of connectivity of Ichamoti river with both Ganges and Jamuna rivers.

Another discussion session was held on 25-09-2016 on the eve of "International Rivers Day" at the conference room of the DC, Pabna District under the chairmanship of the DC, Pabna. Several important decisions were made involving demarcation of river boundary at both banks with the help of c/s and r/s mouza maps (to be implemented by District Settlement Office/ Assistant Commissioner (Land)/ Bangladesh Water Development Board, Pabna), enlisting of all the unauthorized encroachments and taking necessary action for uprooting them (to be implemented by Additional District Commissioner (Revenue)/ Assistant Commissioner (Land)/ Bangladesh Water Development

◆ Project Preparation In response to the problems and discussions made on the present scenario, BWDB decided to conduct a feasibility study and the project proposal was prepared. ◆ Appraisal As Ichhamoti is getting worse condition day by day, a feasibility study for improving its condition was a crying need. The rationale of this study was agreed unanimously agreed at every meeting at BWDB and MoWR.		<table><tr><td>◆ Credit Negotiation</td><td rowspan="5">All cost was borne by GoB fund</td></tr><tr><td>◆ Credit Agreement</td></tr><tr><td>◆ Credit Effectiveness</td></tr><tr><td>◆ Loan Disbursement</td></tr><tr><td>◆ Loan Conditionalities</td></tr></table>	◆ Credit Negotiation	All cost was borne by GoB fund	◆ Credit Agreement	◆ Credit Effectiveness	◆ Loan Disbursement	◆ Loan Conditionalities
◆ Credit Negotiation	All cost was borne by GoB fund							
◆ Credit Agreement								
◆ Credit Effectiveness								
◆ Loan Disbursement								
◆ Loan Conditionalities								
◆ Project Approval Letter for administrative approval was issued on 28 November, 2017. The project was approved by Ministry of Water Resources as per guidelines for project approval of Bangladesh. Others (if any).								
4. <u>Analysis of the Post-Implementation situation and result of the project: <i>Not Applicable</i></u>								
4.1	Whether the beneficiaries of the project have clear knowledge about the Target/ Objectives of the project.							
4.2	Programme for use of created-facilities of the project							
4.3	O & M programme of the project.							
4.4	Impact of the project -							
	4.4.1 Direct							
	4.4.2 Indirect							
4.5	Transfer of Technology and Institutional Building through the project							
4.6	Employment generation through the project.							

4.7	Possibility of Self employment
4.8	Possibility of women-employment opportunity
4.9	Women's participation in development
4.10	Probable Impact on Socio-Economic activity.
4.11	Impact on environment
4.12	Sustainability of the project
4.13	Contribution to poverty alleviation/reduction
4.14	Opinion of the public representatives, local elite, local administration, teachers, religious leaders, women's representatives etc.
4.15	Contribution of Micro-credit programmes and Comments on overlapping with any NGO activities.

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

5.1	Project Management	5.12	Project aid disbursement and re-imbursement
5.2	Project Director	5.13	Mission of the development partners.
5.3	Land Acquisition	5.14	Time & Cost Over-run
5.4	Procurement	5.15	Project Supervision/Inspection
5.5	Consultancy	5.16	Delay in Decision
5.6	Contractor	5.17	Transport
5.7	Manpower	5.18	Training
5.8	Law & Order	5.19	Approval
5.9	Natural calamity	5.20	Others.
5.10	Project financing, allocation and release.		
5.11	Design formulation/approval		

It is a contract base consultancy project. The above problems have not occurred

6. Remarks & Recommendations of the Project Director:

The main objective of this study was to find the way out to revive Ichamoti River of the pabna district. The consultant started their study in May, 2018 and completed in June, 2019. The final report of the project has already been approved by the concerned authority.

Through comprehensive study, the consultant has proposed different structural measures to resuscitate the Ichamoti River. To construct these physical interventions a new project will have to be implemented. They recommended for river/channel excavation/re-excitation at different locations, retaining wall construction, construction/remodeling of bridges, architectural beautification etc. The consultant recommended for phase-wise implementation of the project. Some measures to be taken at first phase are the excavation/ re-excitation of channels/rivers, remodeling of Ramchandrapur regulator, removal of encroachment along the both bank of Ichamoti river, etc. The second phase includes, beautification measures along both banks of Ichamoti river, construction of bridges, opening *Ananta Bundh* remodeling of hydraulic structures, etc. The third phase is a long term phase, which includes opening Hurasagar outfall to re-establish the link with Jamuna, replacing Madhupur Closure with agated structure, etc. After completion of the implementation project O&M schemes should be maintained to keep the project in good condition. Beside different structural interventions, public

awareness, law enforcement and coordination between different agencies will make the project successful.

Date : 18.09.2019

Signature and seal of the Project Director

(Dr. Sharmal Chandra Das)
Director/Supervising Engineer
Directorate of Planning-1
BWDB, Dhaka.

7. Remarks/Comments of Agency Head

The project was taken to find possible measures for reconstruction of Teesta river in Rabra district. The consultant suggested different measures to be taken through a new project. They recommended structural measures as well as non-structural measures. Coordination between government organization such as BWDB, District Administration, LAED, Panchayat, DOF, etc. will be required to make the project successful. Active participation of local stakeholders and civil society will also be required.

Date :

Signature and Seal

Md. Mahfuzur Rahman)
Director General
BWDB, Dhaka.

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

Date :

Signature and Seal