



IRRIGATION MANAGEMENT IMPROVEMENT PROJECT

ANNUAL REPORT OF 2018

[Including Quarterly Report of October-December 2018;
i.e., Quarterly Report No. 15]



MIP



GKIP



TBP

PMDC's Report

Prepared for PD, PMU, IMIP, BWDB, Dhaka

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In association with:

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- Northwest Hydraulic Consultants (Canada)
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Irrigation Management Improvement Project (IMIP)

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1.0 MAIN FEATURES OF THE PMDC CONTRACT

- i. Contract Package No. SC-01
- ii. Nature of work: Service for preparation of Feasibility Study Reports (of GKIP & TBP) and Detailed Engineering Designs for improvement of irrigation management of large irrigation schemes (MIP, GKIP & TBP)
- iii. Date of Commencement: 01/03/2015.
- iv. Target completion date (as per Contract): 28/02/2020.

2.0 INTRODUCTION AND OVERVIEW

- 1.1 This Report is the Annual Report of the Year 2018. Pursuant to the requirement of the Contract Agreement of the PMDC, the progress of the year and also the progress of the Quarter No.15 (October to December 2018) of the PMDC Contract is included in this Report.
- 1.2 The PMDC passed 46 months of the Contract period out of 60 months (about 77%), in December 2018. Over the reporting period of 12 months, the PMDC submitted 12 Monthly Progress Reports (Nos.35 to 46) and three Quarterly Progress Reports (Nos. 12 to 14).
- 1.3 The PMDC prepared 'Detailed Engineering Designs' (irrigation, drainage canals & inspection roads, and partly a few structures) of the GKIP in the third and the fourth quarter of the reporting period. The designs prepared by the PMDC were submitted to the Client, time to time, for approval.
- 1.4 The PMDC guided and supervised field works in respect of 'Studies and Surveys' for engineering data collection of the GKIP, by Sub-consultants (for detailed engineering designs of the planned infrastructure) in the second, third and the fourth quarter of the reporting period.
- 1.5 In this year, the BWDB approved the Feasibility Study Report of the GKIP.
- 1.6 The ADB officials conducted two field Missions in Bangladesh (on 23-31 January and on 21-29 November 2018) in connection with review of progress of works of the IMIP; and had made field visits, and discussion meetings with the stakeholders of the GKIP, the officials of the BWDB and the Ministries, the C-IMO and the PMDC.
- 1.7 The BWDB took a firm decision in the reporting period that the Teesta Barrage Project will be developed as 'Rehabilitation and Command Area Development Project' under the IMIP; the planned 'investment project' would not include any intervention for ground water development.
- 1.8 The PMDC achieved about 67.5% cumulative progress of the assigned works till the end of the reporting period.

3.0 BACKGROUND TO PROJECT AND SCOPE OF CONSULTANCY

- 3.1 The Irrigation Management Improvement Project (IMIP) was designed to support the policy aim of the Government of Bangladesh (GoB) to sustain high growth (4.5%) in the agricultural sector by:
- (a) establishing improved irrigation management and services; and
 - (b) rehabilitating and modernizing the irrigation infrastructure of large irrigation projects.

More specifically, the Project Management and Design Consultant (PMDC), is tasked with:

- a. Carrying out detailed engineering designs of hydraulic structures (not the buried piped irrigation system and electrification works) to rehabilitate and modernize the Muhuri Irrigation Project (MIP);
- b. Supporting the PD, PMU for appointing a "Construction-phase Irrigation Management Operator" (C-IMO) for the MIP (in order to ensure quality of works during implementation phase of the MIP; and the Management, Operation and Maintenance of the irrigation system during implementation period), including collection of irrigation service charges;
- c. Reviewing the performance of the C-IMO, the effectiveness of its management systems, agricultural services and irrigation service charge collection;

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- d. Assisting the PD for appointing a “Management-phase Irrigation Management Operator” (M-IMO) to take over from the C-IMO at the end of implementation of the MIP for a certain period;
- e. Raising awareness and providing training and support to stakeholders in three Projects (Muhuri Irrigation Project, Ganges-Kobadak Irrigation Project and the Teesta Barrage Project) under the Irrigation Management Improvement Project (IMIP);
- f. Preparation of Feasibility Studies, detailed engineering designs, and tender documents in support of the government’s plan to implement similar programs as of the MIP in the Ganges-Kobadak Irrigation Project (GKIP) and the Teesta Barrage Project (TBP).

The Bangladesh Water Development Board (BWDB) awarded Contract Package CS-01 (“Project Management and Design Consultant (PMDC)”) to Mott MacDonald Limited (MML) in association with two other consulting firms, on 18 February 2015.

Accordingly, the PMDC was mobilized on 01 March 2015, and has been providing services for the Project.

The PMDC Contract period is for five years; from March 2015 to February 2020. By December 2018, 46 months of the Contract period was exhausted.

This Annual Report reviews the progress of the PMDC’s works during the period of 12 months of the full year of 2018.

However, as required under the provision of the Contract Agreement, this Report also includes the progress of the 4th Quarter of 2018 (October-December 2018; Quarter No. 15).

4.0 PMDC's MAIN SERVICES

In accordance with the ToR of the Contract Agreement, the Scope of Services of the PMDC is divided into four Main Services, as follows:

(a) MS-1 Strengthened Project Management

The role of the PMDC is to support the PMU in:

- a. planning;
- b. project implementation;
- c. development of a Project Performance Management System (PPMS);
- d. development of a financial management system;
- e. establishing and supporting the Project Steering Committee (PSC); and
- f. procurement of civil works contracts (namely CW1, CW2, CW3 & CW8) for the MIP.

(b) MS-2 Rehabilitation and Modernization of Irrigation Infrastructure

Regarding the MIP, the PMDC has to prepare detailed engineering designs for the outstanding works in Contract Package CW8, prepare the corresponding bills of quantities (BoQ) and the tender documents. [Supervision and quality control of construction the works is the task of the C-IMO of MIP, and the Executive Engineer (PIU), Feni O&M Division, BWDB, Feni.]

Regarding the GKIP and the TBP, the PMDC has to prepare:

- a. system assessment and Feasibility Study Reports; and
- b. ‘Detail Engineering Designs’ (DED) and Tender Documents (TD)

(c) MS-3 Improved Management of Large Irrigation Projects

Improved Management of Large Irrigation Projects is the key to the development of sustainable (i.e., self-financing) management and operation of large irrigation schemes, which is responsive to the needs of farmers.

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The PMDC will support the PD, PMU for the establishment of the Irrigation Management Operators (IMOs) in the improved schemes (GKIP and TBP).

(d) MS-4 Institutional Development, Awareness and Training

In further support of the MS-3, the PMDC's activities under MS-4 include:

- a. an institutional review and assessment of capacity and needs for MOM (management, operation and maintenance);
- b. training and resource need assessment for relevant institutions;
- c. preparation of training plans and budgets; and,
- d. implementation of training, institutional development and awareness for the stakeholders and the BWDB staff (as applicable).

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5.0 PROJECT PROGRESS IN THE CURRENT YEAR (2018)

5.1 Item-wise Progress of the PMDC Tasks under MS-1

The Item-wise progress of the PMDC Tasks under MS-1 is given in the following matrix.

<i>MS-1</i>					
<i>Strengthened Project Management</i>					
SL. No.	Main Tasks	Progress up to December 2017	Progress in 2018	Progress up to December 2018	Remarks
1	2	3	4	5	6
(i)	Identify the project management needs, planning and schedules for execution	80%	Ongoing	80%	Ongoing process
(ii)	Design and establish a Project Performance Management System (PPMS) for the MIP	100%	-	100%	PMU has been using the PPMS Format.
(iii)	Establish a Project Financial Management and Accounting System (PFMAS) within the IMIP PMU	60%	-	60%	Further work will be done by the PMDC Financial Management expert in 2018.
(iv)	Facilitate establishment of PSC for MIP	100%	-	100%	PSC is active & functional
(v)	Develop the GKIP & TBP projects through participative and integrated planning and management.	85%	-	85%	
(vi)	Assist the PMU, the PSC and ADB to prepare the additional financing/project documents for the TBP modernization financing	-	-	-	Will be done after approval of FSR of TBP.
(vii)	Ensure the implementation schedules reflect the envisaged integrated approach.	All work done on this basis.	All work done on this basis.	All work done on this basis.	Ongoing process
(viii)	Assist the IMIP PMU with project administration, performance monitoring and preparation of project reports.	-do-	-do-	-do-	-do-
(ix)	Assist the PMU with preparing tender documents and support the tender processes for the MIP construction/rehab program (4 Packages)	100%	-	100%	C-IMO will prepare tender docs for the remaining packages.

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5.2 Item-wise Progress of the PMDC Tasks under MS-2

The Item-wise progress of the PMDC Tasks under MS-2 is given in the following matrix.

MS-2	<i>Rehabilitation and Modernization of Large Irrigation Projects (MIP); and Preparation of the follow-on projects (GKIP & TBP)</i>				
SL. No.	Main Tasks	Progress up to December 2017	Progress in 2018	Progress up to December 2018	Remarks
1	2	3	4	5	6
(a)	MIP				
(i)	Prepare detailed designs, specifications and bid documents for:				
	a. Rehab of sluices (4 Nos.)	100%	-	100%	
	b. Construction of sluices (2 Nos.)	100%	-	100%	
	c. Rehab of Water Control Structures (3 Nos.)	100%	-	100%	
	d. Construction of Water Control Structures (5 Nos.)	100%	-	100%	
	e. Identify outstanding infrastructure investment required for the MIP	100%	-	100%	Outstanding khals were identified.
(ii)	Prepare detailed designs for rehab of BWDB offices & houses (1 package)	100%	-	100%	
(b)	GKIP				
(i)	Undertake system assessment	100%	-	100%	
(ii)	Prepare Feasibility Study including sustainable MOM strategy.	100%	-	100%	FS was approved by BWDB on 19/3/18.
(iii)	Prepare detailed engineering designs, cost estimates, specifications of agreed improvement works, along with civil works bidding documents.	20%	5%	25%	Further work currently in progress.
(iv)	Prepare inputs for project documents to meet ADB requirements. These documents include economic justification, financial analysis, PAM, cost estimates, Design & Monitoring Framework (DMF), safeguards documents, etc.	50%	-	50%	Economic & Financial analyses were done in 2016 and 2017. Some of these documents will be prepared by SSTA Team.
(v)	Assist the PMU with bidding and procurement processes.	-	-	-	Will be done in due course.
(vi)	Identify and organize the implementation of supporting technical, management, institutional and social studies, as required.	60%	-	60%	Remaining work will be done from Q3 of 2018.
(c)	TBP				
(i)	Undertake system assessment	100%	-	100%	
(ii)	Prepare feasibility study including sustainable MOM strategy	80%	-	80%	DFSR is under revision by PMDC, as per decision of BWDB, dated 14 Feb 2018.
(iii)	Prepare detailed engineering designs, cost estimates, specifications of agreed	-	-	-	Detailed designs will be done after

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	improvement works, along with civil works bidding documents.				approval of FS.
(iv)	Prepare project documents to meet ADB requirements. These documents include economic justification, financial analysis, PAM, cost estimates, Design & Monitoring Frameworks (DMF), safeguards documents, etc.	30%	-	30%	Economic & Financial analyses were done in 2016 and 2017; but may need revision.
(v)	Assist the PMU with bidding process etc.	-	-	-	Will be done in due course.
(vi)	Identify and organize the implementation of supporting technical, management, institutional and social studies as required.	60%	-	60%	Remaining work will be done after approval of FS.

5.2.1 Progress of Muhuri Irrigation Project (MIP)

The PMDC, according to the requirement of the ToR, has completed all tasks related to design and cost estimates for Contract Package CW8 (construction and rehabilitation of hydraulic structures; and repair of buildings); CW8 was later split into two Packages (CW8A and CW8B). Progress of works of the MIP is being reported at regular interval by the C-IMO to the PD. Cumulative progress of the MIP works is given in **Annexure-5**.

5.2.2 Progress of Ganges-Kobadak Irrigation Project (GKIP)

Works of the detailed engineering designs of the GKIP was started from August 2018. A few designs were submitted in Quarter 3 and Quarter 4, to the Client for approval. Progress Report of detailed engineering designs of the GKIP is annexed to this Report (**Annexure-1**).

The Feasibility Study Report of the GKIP was approved by the BWDB on 19/03/2018. From June, the PMDC could engage Sub-consultants for 'Surveys and Studies' (for engineering data collection for preparation of detailed engineering designs). Program/progress of 'Surveys and Studies' by Sub-consultants is given in **Annexure 3(a)** and **Annexure 3(b)**.

5.2.3 Progress of Teesta Barrage Project (TBP)

The Draft FSR of the TBP was submitted to the PMU in April 2017. Eleven Supplementary Reports, that formed the basis of the FSR, were also submitted over the period of February to August 2017.

The Draft FSR was briefly discussed in a meeting of the BWDB on 08/02/2018, chaired by the DG, who instructed the PMDC to revise and re-submit the FSR eliminating the proposal for ground water development. The PMDC will revise the FSR in the first quarter (January-March) of 2019 and submit to the Client for approval.

Works of the detailed engineering designs of the TBP will be started after approval of the Draft FSR by the Client. However, a few detailed engineering designs were prepared using the field engineering data that were collected during the 'Feasibility Study Phase' of the TBP. Report on progress of detailed engineering designs is annexed to this Report (**Annexure-2**).

'Surveys and Studies' (by third party Sub-consultants for engineering data collection) for preparation of the detailed engineering designs will be taken up after approval of the Draft FSR.

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5.3 Item-wise Progress of the PMDC Tasks under MS-3

The item-wise progress of the PMDC Tasks under MS-3 in the reporting period is given in the following matrix.

<i>MS-3 Support Improved Irrigation Management of Large Irrigation Projects (LIPs)</i>					
SL. No.	Main Tasks	Progress up to December 2017	Progress in 2018	Progress up to December 2018	Remarks
1	2	3	4	5	6
(i)	Develop a PPP (in collaboration with the PMU, IMO & ICC) pursuant to which long-term MOM for the MIP will be transferred to an M-IMO.	-	-	-	Will be done in 2018-2019
(ii)	Build capacity of PMU to monitor IMO management contracts	Partly done	Partly done	Partly done	On-going process
(iii)	Provide support for public consultation program to ensure stakeholders understanding and support.	Partly done	Partly done	Partly done	On-going process
(iv)	Support the establishment of a PPP Cell in the PMU to monitor and manage the PPP (IMO) contracts	100%	-	100%	
(v)	Support the establishment of the ICC for the MIP.	100%	-	100%	First ICC meeting was held in May 2017. Second meeting may be convened again.
(vi)	Prepare reservoir operating guidelines for MIP in agreement with BWDB & IMO of MIP.	100%	-	100%	
(vii)	Assist PMU with evaluation of performance of C-IMO of MIP.	-	-	-	Will be done in Year 3 of MIP implementation.
(viii)	Assist PMU to develop 2 nd stage PPP (M-IMO) modality, suitable for MIP.	-	-	-	Will be done in Year 4 of MIP implementation.
(ix)	Assist PMU with preparation of contract and bidding documents for tendering PPP contract (M-IMO Contract)	-	-	-	Will be done in Year 4 of MIP implementation
(x)	Prepare and support the endorsement of guidelines to support MOM activities of Large Irrigation Projects (LIPs) to M-IMO, including strategies for cost recovery.	-	-	-	Will be done in Year 4 of MIP implementation
(xi)	Design a Monitoring and Evaluation System (MES) appropriate for LIPs. (MES will be piloted in MIP by the IMO; then the MES will be incorporated into the GKIP & TBP)	100%	-	100%	

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5.4 Item-wise Progress of the PMDC Tasks under MS-4

The Item-wise Progress of the PMDC Tasks under MS-4 is given in the following matrix.

MS-4 Institutional Development and Training					
SL. No.	Main Tasks	Progress up to December 2017	Progress in 2018	Progress up to December 2018	Remarks
1	2	3	4	5	6
(i)	Establish and implement an extensive program of communication and engagement (in accordance with the PAM).	Partly carried out	Partly carried out	Partly carried out	Further work will be done in second half of 2018
(ii)	Prepare an institutional review and assessment of capacities and needs for sustainable MOM of LIPs.	-	-	-	Will be done in Year 3 of MIP implementation
(iii)	Undertake training and resource needs for Government, WMAs and other organizations in order to manage and support IMOs to achieve sustainable MOM of LIPs.	-	-	-	Will be done in accordance with directive of PD in due course.
(iv)	Prepare a detailed training plan, schedule and budget for training under the Project (IMIP)	-	-	-	-do-
(v)	Work with PMU & IMO to develop and implement the training program, including programming, scheduling and implementation of training, institutional development and awareness program.	-	-	-	PMDC will help PMU & IMO to develop program and schedule for the works.

5.4.1 Institutional Arrangement of MIP

The overall Institutional Arrangement of the MIP is as under:

Total 6 executive committees of the Water Management Associations (WMAs) were formed. Formation of 37 Water Management Groups (WMGs) was completed. Formation of one Water Management Federation (WMF) executive committee was also done.

5.4.2 Institutional Arrangement of GKIP

The overall Institutional Arrangement of the GKIP is as under:

In the GKIP, program was made to form (i) 444 WMGs, (ii) 49 WMAs and (iii) 1 (one) WMF. Up to the reporting period, a total of (i) 345 WMGs and (ii) 29 WMAs were formed.

5.4.3 Foreign Training

Up to the reporting period, the following foreign trainings were completed under the Project.

	Place	Dates	No. of Participants
1	Thailand and Indonesia	28/10/2016 to 28/10/2016	11
2	Thailand and Indonesia	15/01/2017 to 28/01/2017	12
3	Thailand and Malaysia	30/10/2017 to 10/11/2017	13
		Total	36

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5.4.4 Overall Progress of the PMDC

Up to December 2018, 46 months out of total 60 months of the Contract period were over. Thus, about 77% of the contract period have passed. The cumulative progress of the PMDC's assignment since commencement is about 67.5%.

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6.0 PROJECT PLANNING AND DELIVERABLES

6.1 Planning (for GKIP & TBP)

(i) The PMDC prepared a **WORK PLAN** for the **GKIP** covering the period from July 2018 to February 2020 (till Contract completion); it was submitted in the Mid-Term Report. The Work Plan was updated, time to time, and is annexed (**Annexure-4**).

(ii) For the TBP, preparation of a **WORK PLAN** will be possible after revision and approval of the Draft FSR; tentatively in Q1 of 2019.

(iii) For the MIP, the PMDC completed all works (detailed engineering designs of hydraulic structures) as required under the ToR. However, civil works and some local training programs were carried out by the C-IMO as required in accordance with the provision of the ToR. The PMDC has rendered assistance to the PD in planning and managing implementation of the irrigation management improvement of the MIP, time to time in the reporting period. Progress of all works of the MIP is being reported at regular interval by the C-IMO to the PD, PMU.

6.2 Deliverables

The deliverables by the PMDC for Year 2018 were 12 monthly Progress Reports; 4 (four) Quarterly Reports (including this Progress Report of the Quarter No. 15) and this Annual Report (from January to December 2018). All monthly Progress Reports were submitted in time; three Quarterly Progress Reports (Nos. 12, 13 and 14) were also submitted. This Annual Progress Report (including Quarterly Progress Report 15) completes submission of all the deliverables in accordance with the provision of the ToR of the PMDC's Contract Agreement.

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7.0 MOBILIZATION OF CONSULTANT

7.1 PMDC’s Key- & Non-key staff Input

Input of the PMDC’s Key- and Non-key staff in the reporting period is summarized below (Table 7.1).

Summary of Manpower Input (Person-month) is given below (Table 7.2).

Activities performed by the experts of the PMDC in the reporting period is given below (Table 7.3).

Summary of Financial Progress (Without Advance Income Tax and VAT) of the PMDC Contract is given below (Table 7.4).

Table 7.2: Summary of Manpower Input (Person-month)

Inputs	Revised Contract	Up to December 2017	In Year 2018	Up-to-December 2018	Balance from January, 2019
1	2	3	4	5	6
1. International	75.60	49.61 (65.62%)	4.24	53.85 (71.23%)	21.75 (28.76%)
2. National	511.17	371.57 (72.69%)	47.01	418.58(81.88%)	92.59 (18.11%)
(e) Total	586.77	421.18 (71.77 %)	51.25	469.43 (80.00%)	114.34(19.48%)

Table 7.3: Activities Performed by PMDC’s Experts

Name and Position	Activities in this Quarter
(i) Management Unit	
(i) Daniel Crickx	-Terminated by MML; left on 19/08/2015.
(ii) Nick Lockett	-Resigned on 03/03/2017 and left.
(iii) <u>Richard Peter Jones</u>	- <u>Joined on 11/04/2018; terminated by MML on 12/07/2018.</u>
Irrigation Management Specialist/Team Leader (Int’l)	-Mr. Richard produced no deliverables.
Md. Abu Taher Khandakar Irrigation Specialist/Deputy Team Leader (Nat’l)	-Previously had performed duties and responsibilities of the Team Leader from 03/03/2017 to 10/04/2018; again performed duties and responsibilities of the Team Leader from 15/07/2018 till date (because the Team Leader was terminated by the MML). -Also performed duties and responsibilities of the Irrigation Planning and Design Engineer (International) from 15/07/2018 (because his input was exhausted on 08/06/2018). -Managed assignment/timely submission of deliverables - Collected and compiled all relevant studies including designs / drawings/data - Coordinated with government and other stakeholders - Supported for establishment and guiding the PMU/ PIU for MIP - Led policy dialogue with Government and support development of policy/ institutional loan covenants including sector roadmap - Supported irrigation modernization analyses -Guided and directed engineers for preparation of detailed engineering designs -Supported formation of WMGs/WMAs/WMF in MIP

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Name and Position	Activities in this Quarter
Malcolm Somerfield Financial Management Specialist (Int'l)	-Provided input for preparation of financial management in the PMU office.
Ekterdar Rahman Financial Management Specialist (Nat'l)	- Provided input for preparation of financial management in the PMU office, supporting the expatriate expert.
(ii) Technical & Design Unit	
Alan K Clark Irrigation Planning & Design Engineer (Int'l)	-Provided input till Quarter No.2 of 2018, for planning of the GKIP and the TBP. Input exhausted.
Md. Abdur Raquib Irrigation Planning & Design Engineer -1 (Nat'l)	-Input exhausted.
AKM Sayeed Uddin Irrigation Planning & Design Engineer -2 (Nat'l)	-Input exhausted.
Mr. Rashidul Islam Mechanical & Electrical Engineer (Nat'l)	-Not mobilized in the reporting period.
Malcolm Leytham Hydrologist (Int'l)	-Contract period exhausted.
Abdur Rahman Bhuiyan Hydrologist (Nat'l)	-Contract period exhausted.
Bart Goes Hydrogeologist (Int'l)	-Contract period exhausted.
Khairul Basher Ground water Modeller (Nat'l)	-Not mobilized in the reporting period.
Dave McLean River Morphologist (Int'l)	- Not mobilized in the reporting period.
(iii) Design Support	
Dabir Uddin Irrigation Design Engineer – 1 (Nat'l)	-Contract period exhausted.
Asaduzzaman Irrigation Design Engineer – 2 (Nat'l)	- Not mobilized in the reporting period.
Anisur Kawsar Wawesi Irrigation Design Engineer – 3 (Nat'l)	- Not mobilized in the reporting period.
Mohir Uddin Ahmed Irrigation Design Engineer – 4 (Nat'l)	-Contract period exhausted.
Junior Irrigation Design Engineers (8 Nos.), (National)	

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Name and Position	Activities in this Quarter
(i) Md Ashraf Ali	-Prepared designs of GKIP infrastructure. Performed other duties in connection with 'Surveys and Studies' by Sub-consultants.
(ii) Mustafa Tanvir Hasan	-Prepared designs of GKIP infrastructure.
(iii) Rebeka Sultana	-Prepared designs of GKIP infrastructure.
(iv) Rayhan Numan	- Prepared designs of GKIP infrastructure.
(v) Procurement	
Richard Patterson Procurement Specialist (Int'l)	-Not mobilized in the reporting period.
Ahmed ABDULLAH Procurement Specialist (Nat'l)	- Not mobilized in the reporting period.
(vi) PPP, Institutions, PIM & Communications	
(i) Peter Vos (ii) Ronny Venegas Public-Private Partnership & Institutional Specialist (int'l)	-Resigned and left on 17/12/2016. -Not mobilized in the reporting period.
Intiaz Farook Commercial Lawyer (Nat'l)	- Not mobilized in the reporting period..
Malcolm Summerfield Financial Modelling Specialist (Int'l)	- Not mobilized in the reporting period.
Md. Abdul Ghani Participatory Irrigation Management Specialist-1 (Nat'l)	- Not mobilized in the reporting period.
Zainul Abeden Participatory Irrigation Management Specialist-2 (Nat'l)	- Not mobilized in the reporting period.
Daniel Gregoire Communications Specialist (Int'l)	- Not mobilized in the reporting period.
Harunur Rashid Communications Specialist (Nat'l)	-Mobilized for a very short period to prepare a draft report on stakeholders' communication.
(vi) Agriculture & Economics	
Frank van Berkomp Irrigated Agriculture Specialist (Int'l)	-Contract period exhausted.
Abdul Khaleque Irrigated Agriculture Specialist-1 (Nat'l)	-Contract period exhausted.

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Name and Position	Activities in this Quarter
Dilip Kumar Saha Irrigated Agriculture Specialist-2 (Nat'l)	-Contract period exhausted.
Rob Walton Agricultural Economist (Int'l)	-Contract period exhausted.
Q R Islam Agricultural Economist (Nat'l)	- Not mobilized in the reporting period.
(vii) Safeguards	
Jean-Louis Leterme Resettlement & Social Development Specialist (Int'l)	- Not mobilized in the reporting period.
Shireen Akhter Resettlement Specialist (Nat'l)	- Not mobilized in the reporting period.
Dr Rafeza Gender & Social Development Specialist (Nat'l)	- Not mobilized in the reporting period.
Sara Benet Environmental Safeguard Specialist (Int'l)	Not mobilized in the reporting period.
Raqibul Haque Environmental Safeguard Specialist (Nat'l)	Not mobilized in the reporting period.

Table 7.4. Summary of Financial Progress (Without Advance Income Tax and VAT), in Lac

Revised Contract Price		Amount Received			Balance from January 2019
		Up to December 2017	In Year 2018	Up to December 2018	
1	2	3	4	5	
1. BDT	159.07	1188.03	188.57	1376.60	782.46
2. USD	30.59	20.21	1.77	21.99	8.59
3. GBP	0.88	0.24	0	0.24	0.63
Equivalent total in BDT	4664.39	2799.55	327.32	3126.87	1537.52
Income Tax	454.87	239.38	38.09	277.47	177.40
VAT	699.65	359.07	49.09	408.16	274.14

(Note: Contract Exchange Rates: 1 USD = 78.125 BDT; 1 GBP = 1.679 USD = 131.172 BDT)

PMDC's Report

8.0 PROBLEMS

- (i) The Team Leader's position of the PMDC had remained vacant (previously) from 03/03/2017 to 10/04/2018. Replacement Team Leader, Mr. Richard Peter Jones, joined in the position on 11/04/2018; he rendered input up to 12/07/2018. However, on 12/07/2018 he was terminated by the MML.
- (ii) The Team Leader's position has fallen vacant again from 13/07/2018; the Deputy Team Leader has been performing duties and responsibilities of the Team Leader in addition to his own duties and responsibilities.
- (iii) The position of the Irrigation Planning and Design Engineer (International) has also fallen vacant since 08/06/2018 because the contracted 18 months' input of the expert were exhausted. Thus the Deputy Team Leader has been providing additional services for this position in his lieu. As a result, the Deputy Team Leader has been providing services of three Key-experts that increased his work load very much.
- (iv) The Progress of works by the PMDC in the reporting period did not achieve the expected progress. Mr. Richard Peter Jones, the Team Leader from 10/04/2018 to 12/07/2018, had engaged himself in a dispute with his employer, the MML within a short period of his mobilization. He did not provide any effective service for the PMDC's assignment. He did not provide guideline and leadership to the PMDC Team. He did not prepare any 'Work Plan' for the activities to be carried out to accomplish the assignment, he did not prepare the Mid-Term Report; he did not make any contribution to revise the Draft FSR of the TBP. The MML in a letter, dated: 18/07/2018 submitted to the PD, PMU informed that 'Mr. Jones was no longer deemed suitable as Team Leader of this important project and was in breach of his contractual obligations.' After his termination from the position of the Team Leader, Mr. Richard Peter Jones created a lot of problems in the activities of the PMDC; he was a source of continuous disturbance to the smooth functioning of the PMDC in the third quarter and the fourth quarter of the reporting period. Thus, there was a serious negative impact on the activities of the PMDC and that caused hindrance to smooth functioning and progress.
- (v) The PMDC's progress also suffered seriously because requisite number of manpower needed to carry out the stipulated tasks (especially the detailed engineering design works) was not mobilized by the MML over a long period.
- (vi) The progress of the 'detailed engineering designs' was slow for want of manpower in the quarter three and the quarter four of the reporting period; there is yet no approved practical plan to improve the situation.

Annexure-1

IRRIGATION MANAGEMENT IMPROVEMENT PROJECT

GKIP's Detailed Engineering Design Progress Report, Year 2018

SL. No.	Name of Components	Unit	Total Qty	Target Qty	Available Design Data (Nos. & %)		Design Prepared (Nos. & %)					
							upto Year 2017		In Year 2018		upto Year 2018	
1	2	3	4	5	6	7	8	9	10	11	12	
I. Design of Irrigation & Drainage Canals												
1	Main Canal (Re-sectioning): 180.36 Km	No.	4	4	4	100%	-	-	4	100%	4	100%
2	Secondary Canal (Re-sectioning): 434.38 Km	No.	49	49	25	100%	-	-	16	100%	16	100%
3	Tertiary Canal (Re-sectioning): 995 Km	No.	444	444	39	100%	-	-	-	-	-	-
4	Drainage Canal (Re-sectioning): 452.50 Km	No.	91	88	28	100%	-	-	28	100%	28	100%
Sub-total			588	585	96	16%	-	-	48	100%	48	100%
II. Design of Structures												
1	Subsidiary Pump House (44.00 m3/s); New	No.	1	1	0.5	50%	-	-	-	-	-	-
2	Intake Canal (740m)	No.	1	1	0.5	50%	-	-	1	70%	1	70%
3	(i) Buried Pipe System for 95,600 ha; System=2200 Nos. (Pipeline=3300 Km)	No.	2200	2200	-	-	-	-	-	-	-	-
	(ii) Prepare Draft Layout Plan of LLP/Pipeline; System=2200 Nos.	No.	2200	2200	2200	100%	-	-	2200	100%	2200	100%
4	WMO Building (New)	No.	1	1	1	80%	-	-	1	30%	1	30%
5	(i) Main Canal Structures (Cross Regulator); New, R3A, 2-Vents	No.	1	1	1	70%	-	-	-	-	-	-

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SL. No.	Name of Components	Unit	Total Qty	Target Qty	Available Design Data (Nos. & %)		Design Prepared (Nos. & %)					
							upto Year 2017		In Year 2018		upto Year 2018	
1	2	3	4	5	6		7		8		9	
	(ii) Kushtia Main Canal Structures Modification	No.	6	6	6	100%	-	-	-	-	-	-
	(iii) Other Main Canal Structures: Escape (New)	No.	1	1	1	80%	-	-	-	-	-	-
	(iii) Other Main Canal Structures: Rehabilitation (Escape & Regulator)	No.	23	23	23	80%	-	-	-	-	-	-
6	(i) Secondary Canal Structures: Head-Regulator (New)	No.	2	2	2	80%	-	-	1 (R1S13K)	80%	1 (R1S13K)	80%
	(ii) Secondary Canal Structures: Head-Regulator (Rehab)	No.	47	47	14	80%	-	-	-	-	-	-
	(iii) Secondary Canal Structures: Cross-Regulator (New & Rehab)	No.	112	112	58	80%	-	-	-	-	-	-
7	(i) Tertiary Canal Structures: Direct Tertiary Head-Regulator	No.	53	53	-	-	-	-	-	-	-	-
	(ii) Tertiary Canal Structures: Head-Regulator	No.	288	288	116	80%	-	-	-	-	-	-
8	Syphons (Cross-drainage), Rehab	No.	203	2	-	-	-	-	-	-	-	-
9	<u>Inspection Road</u> (i) Along Main Canal (3 Nos.) [New = 123.70 Km Rehabilitation = 44 Km]. Total = 167.70 Km	No.	3	3	3	100%	-	-	3	100%	3	100%
	(ii) Along Sec Canal (9 Nos.) New = 134.70 Km	No.	49	9	9	100%	-	-	9	100%	9	100%

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SL. No.	Name of Components	Unit	Total Qty	Target Qty	Available Design Data (Nos. & %)		Design Prepared (Nos. & %)					
							upto Year 2017		In Year 2018		upto Year 2018	
1	2	3	4	5	6		7		8		9	
10	Design of Embankment protection works = 5km	Km	5	5	-	-	-	-	-	-	-	-
11	Bridges/Culverts (new)	No.	550	88	15	100%	-	-	-	-	-	-
12	Balancing Reservoirs (46.50 ha)	No.	14	14	-	-	-	-	-	-	-	-
13	Hydrological analysis and prepare draft plan for SW reservoir in Kumar, Kaliganga and Sagorkhali River	Item	1	1	1	100%	-	-	1	100%	1	100%
14	Design of Kumar River Reservoir (125 km)	No.	1	1	-	-	-	-	-	-	-	-
15	Design of Kaliganga River Reservoir (42 km)	No.	1	1	-	-	-	-	-	-	-	-
16	Design of Sagorkhali River Reservoir (40 km)	No.	1	1	-	-	-	-	-	-	-	-
17	Hydraulic Elevator Dam/ Rubber Dam in Kumar River	No.	1	1	-	-	-	-	-	-	-	-
18	Pumping Station in Kumar and Kaliganga River	No.	4	4	-	-	-	-	-	-	-	-
19	Prepare sketch drawing of subsidiary Pump House (for FSR)	No.	1	1	1	100%	-	-	1	100%	1	100%
Sub-total			5770	5067	2452	42%	-	-	2216	100%	2216	100%

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Annexure-2

IRRIGATION MANAGEMENT IMPROVEMENT PROJECT

TBP's Detailed Engineering Design Progress Report, Year 2018

SL. No.	Name of Components	Unit	Total Qty	Target Qty	Available Design Data (Nos. & %)		Design Prepared (Nos. & %)					
							Upto Year 2017		In Year 2018		Upto Year 2018	
1	2	3	4	5	6		7		8		9	
I. Design of Irrigation & Drainage Canals												
1	Main Canal (Re-sectioning): 164.38 Km	No.	4	4	4	100%	-	-	4	100%	4	100%
2	Secondary Canal (Re-sectioning): 239.63 Km	No.	27	27	6	100%	-	-	6	100%	6	100%
3	Tertiary Canal (Re-sectioning): 330.00 Km	No.	99	99	7	100%	-	-	7	100%	7	100%
4	Drainage Canal (Re-sectioning): 978.00 Km	No.	51	51	6	100%	-	-	1	100%	1	100%
Sub-total			181	181	23	13%	-	-	18	100%	18	100%
II. Design of Structures												
1	Teesta Main Canal Head Regulator (CHR)	No.	1	-	-	-	-	-	-	-	-	-
2	Silt Trap	No.	1	-	-	-	-	-	-	-	-	-
3	Main Canal Structures	No.	24	24	-	-	-	-	-	-	-	-
4	Secondary Canal Structures	No.	83	83	13	100%	-	-	-	-	-	-
5	Tertiary Canal Structures	No.	164	164	7	100%	-	-	-	-	-	-
6	Syphons/Aqueducts	No.	352	352	-	-	-	-	-	-	-	-
7	Inspection Road: 15.12 km	No.	20	20	20	100%	-	-	-	-	-	-
8	Bridges/Culverts	No.	100	100	-	-	-	-	-	-	-	-
9	Rubber Dams	No.	4	4	4	100%	-	-	-	-	-	-
Sub-total			749	747	44	6%	-	-	-	-	-	-

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Annexure-3(a)

IRRIGATION MANAGEMENT IMPROVEMENT PROJECT

Progress of 3rd Party Survey (1st Phase) for GKIP & TBP, Year 2018

SL. No.	Name of Work	Contract Reference	Name of the Sub-Consultant	Progress Upto Year 2017	Progress in Year 2018	Progress Upto Year 2018
1	2	3	4	5	6	7
1	Provisional Sum Item-A:					
1.1	Preparation and Supplying Digital Elevation Models (DEMs) of (i) the Ganges-Kobadak Irrigation Project (GKIP) and (ii) the Teesta Barrage Project (TBP).	SCS/GKIP-TBP/DEM-02, Dated:15.02.16	M R Consultants	100%	-	100%
2	Provisional Sum Item-D:					
2.1	Taking Discharge measurements in Main and Secondary Canals of (i) the Ganges-Kobadak Irrigation Project (GKIP) and (ii) the Teesta Barrage Project (TBP).	SCS/GKIP-TBP/Q-01, Dated:15.02.16	Geomark Limited	-	-	-
3	Provisional Sum Item-E:					
3.1	Farmers Consultation (in-house by PMDC).	PD's Memo No. G-2/61, Dated: 30.07.16	-	100%	-	100%
3.2	Socio-economic Survey and Study of (i) the Ganges-Kobadak Irrigation Project (GKIP) and (ii) the Teesta Barrage Project (TBP).	SCS/GKIP-TBP/S&E-01, Dated:15.02.16	BISR Consultant Limited	100%	-	100%
4	Provisional Sum Item-H:					
4.1	Conducting field Topographic Survey for the Ganges Kobadak Irrigation Project (GKIP) including survey of the intake, main and selected secondary canals in Districts: Kushtia, Chuadanga, Jenaidah & Magura.	CW/SI/GKIP/TOPO-01, Dated:25.08.15	Geomark Limited	100%	-	100%

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SL. No.	Name of Work	Contract Reference	Name of the Sub-Consultant	Progress Upto Year 2017	Progress in Year 2018	Progress Upto Year 2018
1	2	3	4	5	6	7
4.2	Conducting Topographic Survey of canals of the Teesta Barrage Project (TBP) in Districts: Rangpur, Nilphamari, Dinajpur, Bogra.	CW/SI/TBP/TOPO-01, Dated:03.01.16	M/S Survey Design & Associates	100%	-	100%
4.3	Conducting Topographic Survey of Structures of the Ganges-Kobadak Irrigation Project (GKIP) in Districts: Kushtia, Jhenidah, Chuadanga and Magura.	CW/SI/GKIP/TOPO-02, Dated:03.01.16	M/S Sibco Business Corporation	100%	-	100%
4.4	Conducting Topographic Survey of New and Rehabilitation of Structures & Cross-section Survey of Drainage Channels of the Teesta Barrage Project (TBP) in Districts: Rangpur, Nilphamari, Dinajpur, Bogra.	CW/SI/TBP/TOPO-02, Dated:17.04.16	Design and Survey Organization	100%	-	100%
4.5	Conducting Topographic Survey [Cross-sections] of Drainage Channels of the Ganges-Kobadak Irrigation Project (GKIP) in Districts: Kushtia, Jhenidah, Chuadanga and Magura.	CW/GKIP/TOPO-03, Dated:17.04.16	Geomark Limited	100%	-	100%
4.6	Conducting Condition Survey of New and Rehabilitation of Structures of the Ganges-Kobadak Irrigation Project (GKIP) in Districts: Kushtia, Chuadanga, Jhenidah and Magura.	CW/GKIP/TOPO-04, Dated:29.06.16	Natural Resources Planners Limited	100%	-	100%
5	Provisional Sum Item-I:					
5.1	Geotechnical investigations for new water control structures for MIP.	CW/SI/MIP-01, Dated:25.06.15	National Soil Engineers	100%	-	100%
5.2	Geo-technical Investigation of structures of the Ganges-Kobadak Irrigation Project (GKIP) in Districts: Kushtia, Jhenidah, Chuadanga and Magura.	CW/GKIP/GI-01, Dated:17.04.16	National Soil Engineers	100%	-	100%

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SL. No.	Name of Work	Contract Reference	Name of the Sub-Consultant	Progress Upto Year 2017	Progress in Year 2018	Progress Upto Year 2018
1	2	3	4	5	6	7
6	Provisional Sum Item-J:					
6.1	Electrical study/survey and Supplying Report by Third Party of (i) the Ganges-Kobadak Irrigation Project and (ii) the Teesta Barrage Project under IMIP For MIP during 2015-2016 in connection with Feasibility Studies and Detailed Designs of IMIP.	TPSS/GKIP-TBP/ESS-01, Dated:17.04.16	Natural Resources Planners Limited	100%	-	100%
7	Provisional Sum Item-L:					
7.1	Environmental Biodiversity survey of (i) the Ganges-Kobadak Irrigation Project and (ii) the Teesta Barrage Project.	SCS/GKIP-TBP/EBS, Dated: 15.02.16	BISR Consultant Limited	100%	-	100%
8	Provisional Sum Item-M:					
8.1	Resettlement surveys.	-	-	-	-	-

Annexure-3(b)

IRRIGATION MANAGEMENT IMPROVEMENT PROJECT

Progress of 3rd Party Survey (2nd Phase) for GKIP & TBP, Year 2018

SL. No.	Name of Work	Contract Reference	Name of the Sub-Consultant	Progress Upto Year 2017	Progress in Year 2018	Progress Upto Year 2018
1	2	3	4	5	6	7
1	Provisional Sum Item-A:					
1.1	GIS study: major crop classification using Rapid Eye, 5m for GKIP. Imagery for two dates in Rabi to be procured and used.	SC/GKIP/DD/RE-1, Dated: 08.07.2018 & SC/GKIP/DD/MCC-1, Dated: 07.08.2018	Landmark Survey Consultant & Arshiya and Associates	-	50%	50%
1.2	DEM prepared using stereoscopic imagery for Detailed Design of GKIP tertiary and quaternary system.	SC/GKIP/DD/RE-1, Dated: 08.07.2018 & SC/GKIP/DD/MCC-1, Dated: 06.09.2018	Landmark Survey Consultant & Arshiya and Associates	-	20%	20%
2	Provisional Sum Item-E:					
2.1	Follow-up socio-economic survey and study of GKIP and TBP	-	-	-	-	-
3	Provisional Sum Item-H:					
3.1	Topographic survey for the GKIP					
3.1(a)	Topographical Survey of Canals and Plane Table & Condition Survey of Structures of the GKIP for detailed design of irrigation modernization system during 2017-18.	SC/GKIP/DD/01(Topo), Dated: 08.07.2018	Civil Tech Engineering Services	-	90%	90%
3.1(b)	Topographical Survey of Canals and Plane Table & Condition Survey of Structures of the GKIP for detailed design of irrigation modernization system during 2017-18.	SC/GKIP/DD/02(Topo), Dated: 08.07.2018	National Trust Survey Consultant	-	80%	80%

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SL. No.	Name of Work	Contract Reference	Name of the Sub-Consultant	Progress Upto Year 2017	Progress in Year 2018	Progress Upto Year 2018
1	2	3	4	5	6	7
3.1(c)	Topographical Survey of Canals and Plane Table & Condition Survey of Structures of the GKIP for detailed design of irrigation modernization system during 2017-18.	SC/GKIP/DD/03(Topo), Dated: 08.07.2018	National Trust Survey Consultant	-	80%	80%
3.1(d)	Topographical Survey of Canals and Plane Table & Condition Survey of Structures of the GKIP for detailed design of irrigation modernization system during 2017-18.	SC/GKIP/DD/04(Topo), Dated: 08.07.2018	Geomark Ltd.	-	85%	85%
3.1(e)	Topographical Survey of Canals and Plane Table & Condition Survey of Structures of the GKIP for detailed design of irrigation modernization system during 2017-18.	SC/GKIP/DD/05(Topo), Dated: 08.07.2018	Design and Survey Organization	-	90%	90%
3.1(f)	Topographical Survey of Canals and Plane Table & Condition Survey of Structures of the GKIP for detailed design of irrigation modernization system during 2017-18.	SC/GKIP/DD/06(Topo), Dated: 08.07.2018	Civil Tech Engineering Services	-	80%	80%
3.2	Topographic survey for the TBP	-	-	-	-	-
4	Provisional Sum Item-I:					
4.1	Geotechnical investigations for larger structures: GKIP	-	-	-	-	-
4.2	Geotechnical investigations for larger structures: TBP	-	-	-	-	-
5	Provisional Sum Item-J:					
5.1	Detailed Electrical Study and Surveys in GKIP	-	-	-	-	-
5.2	Detailed Electrical Study and Surveys in TBP	-	-	-	-	-
6	Office equipment	-	-	-	-	-

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Annexure-4

**IRRIGATION MANAGEMENT IMPROVEMENT PROJECT (IMIP)
 SERVICE CONTRACT PACKAGE NO. CS-01**

PMDC's Work Plan of Deliverables (From January 2019 To February 2020)

SL. No.	Deliverables (Quantity)	Due Date	Starting Date	Completion Date	Progress up to Nov, 2018	2019												2020	
						Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
1	2	3	4	5	6	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1	Mid-Term Report: 1 No.	Month 30	01/08/2018	17/09/2018	100%														
2	Draft Final Report: 1 No.	Month 55	15/09/2019	30/10/2019	-														
3	Final Report: 1 No.	Month 60	01/02/2020	20/02/2020	-														
4	Monthly Report: 60 Nos.	Every month	01/04/2015	28/02/2020	77%	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
5	Quarterly Report: 20 Nos.	Every 3 months	01/06/2015	31/01/2020	70%	◆			◆			◆			◆			◆	
6	Project documents for follow-on Project: 1 Item	Month 15	01/01/2019	30/06/2019	-														
7	Environmental Monitoring Report (of MIP): 5 Nos.	Once every 12 months	-	-	60%	◆												◆	
8	FSR for GKIP: 1 No.	Month 12	01/03/2015	19/03/2018	100%														
9	FSR for TBP: 1 No.	Month 12	01/07/2015	30/01/2019	80%	◆													
10	Detailed Engineering Design for MIP: 1 Item	Month 6	15/03/2015	31/12/2015	100%														
11	(a) Detailed Engineering Design of GKIP: 1 Item	Month 24	01/07/2016	31/07/2019	30%														
	(b) Preparation of Estimate of GKIP: 1 Item	Month 24	01/04/2019	31/08/2019	-														
	(c) Preparation of bid documents for Project-2 (GKIP)	Month 24	01/08/2019	15/09/2019	-														
12	(a) Detailed Engineering Design of TBP: 1 Item	Month 24	01/05/2019	31/12/2019	10%														
	(b) Preparation of Estimate of TBP: 1 Item	Month 24	01/09/2019	31/12/2019	-														
	(c) Preparation of bid documents for Project-2 (TBP)	Month 24	01/12/2019	15/01/2020	-														
13	Preparation of bid documents for outstanding project works (MIP)	Month 12	01/03/2016	30/06/2016	100%														

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Progress of Works of Muhuri Irrigation Project (up to December, 2018)

SL No.	Package No.	Brief description	Contract Price (Taka in lac)	Date of commencement	Date of completion	Physical Progress up to December 2018
1	2	3	4	5	6	7
1	CW-1	Khal re-excavation = 92.867 km	2501.29	14/02/2016	13/02/2018	53%
2	CW-2	Khal re-ex = 149.206 km; & embankment re-sectioning 17.753 km	2784.86	30/12/2015	29/12/2017	75%
3	CW-3	Development of improved irrigation with buried uPVC pipeline, LLPs, pre-paid meter etc. = 1,800 ha	1647.53	18/08/2016	17/08/2018	76%
4	CW-4	Project electrification = 180 km & Substation = 1 No.	4436.25	15/11/2018	30/06/2020	Mobilization in progress.
5	CW-5	Development of improved irrigation with buried uPVC pipeline, LLPs, pre-paid meters etc. = 5,400 ha				Tender under evaluation
6	CW-6	-do- = 5,000 ha				-do-
7	CW-7	-do- = 5,000 ha				Design in Progress
8	CW-8A	Hydraulic structure: (New = 6 Nos.; Repair = 7 Nos.)	1116.47	14/06/2017	13/06/2019	64%
9	CW-8B	Repairing of BWDB offices and buildings: (Office = 5 Nos.; Residential Building = 4 Nos.)	145.96 (Revised)	15/12/2016	14/12/2017	100%