



## Coastal Embankment Improvement Project, Phase-1 (CEIP-1)



**Consultancy Services for Detailed Design, Construction  
Supervision and Project Management Support**

**Progress Report No. 44  
Month of December 2018**

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## Abbreviations and Acronyms

ARIPO	Acquisition and Requisition of Immovable Property Ordinance
BADC	Bangladesh Agriculture Development Corporation
BARI	Bangladesh Agriculture Research Institute
BBS	Bangladesh Bureau of Statistics
BIWTA	Bangladesh Inland Water Transport Authority
BoQ	Bill of Quantities
BRRRI	Bangladesh Rice Research Institute
BTM	Bangladesh Transverse Mercator
BWDB	Bangladesh Water Development Board
BM	Bench Mark
CC	Climate Change or Cement Concrete (no re-bar, e.g. CC blocks)
CCL	Cash Compensation under Law
CDPo	Coastal Development Policy
CDMP	Comprehensive Disaster Management Program
CDS	Coastal Development Strategy
CDSP	Char Development and Settlement Project
CEGIS	Centre for Environmental and Geographic Information Services
CEIP-1	Coastal Embankment Improvement Project – Phase 1
CEP	Coastal Embankment Project
CERP	Coastal Embankment Rehabilitation Project
CES	Coastal Embankment System
CPP-I	Cyclone Protection Project - I
CPP-II	Cyclone Protection Project - II
CZE	Coastal Zone Embankment
CZPo	Coastal Zone Policy
CZWMP	Coastal Zone Water Management Program
CSPS	Cyclone Shelter Preparatory Study
DAE	<i>Department of Agriculture</i> Extension
DC	Deputy Commissioner
DDCS&PMS	Detailed Design Construction Supervision and Project Management Support (RHDHV)
DEM	Digital Elevation Model
DevCon	DevConsultants Ltd. Bangladesh Consultants
DHI	Danish Hydraulic Institute, Denmark
DLR	Director Land Records
DoE	Department of Environment
DoF	Department of Fisheries
DPM	Design Planning & Management Consultants
EAP	Environmental Action Plan
ECRRP	Emergency Cyclone Recovery and Restoration Project
EDP	Estuary Development Program
EHS	Environmental Health and Safety
EIA	Environmental Impact Assessment
EMA	External Monitoring Agency
EMP	Environmental Management Plan

EPG	Embankment Protection Group
EPs	Entitled Persons
ES	Embankment Settlers
FAP-7	Flood Action Plan -7
FCDI	Flood Control Drainage & Irrigation
FGD	Focus Group Discussion
FFG	Foreshore Forestry Group
GoB	Government of Bangladesh
GPP	Guidelines for People's Participation
GPS	Global Positioning System
GRM	Grievances Redress Mechanism
GRRP	Gorai River Restoration Project
IBRD	International Bank for Reconstruction & Development
ICB	International Competitive Bidding
ICZM	Integrated Coastal Zone Management
ICZMP	Integrated Coastal Zone Management Plan
ICZMP	Integrated Coastal Zone Management Program
IDA	International Development Agency
IESCs	Important Environmental and Social Components
IoL	Inventory of Losses
IPC	Interim Payment Certificate (invoice of Contractor)
IPSWAM	Integrated Planning for Sustainable Water Management
IWM	Institute of Water Modelling
IEE	Initial Environmental Examination
KJDRP	Khulna Jessore Drainage Rehabilitation Project
KAFCO	Karnaphuli Fertilizer Company Limited
LAP	Land Acquisition Plan
M&EC	Monitoring and Evaluation Consultants (Third Party Consultants)
MES	Meghna Estuary Studies
MOEF	Ministry of Environment and Forest
MOFDF	Ministry of Food and Disaster Management
MOWR	Ministry of Water Resources
MSL	Mean Sea Level (expressed in + or - mPWD)
NEPo	National Environmental Policy
NGO	Non-Government Organization
NWMP	National Water Management Plan
RAP	Resettlement Action Plan
PAP	Project Affected People
PAVC	Property Assessment and Valuation Committee
PBM	Permanent Bench Mark
PDC	Polder Development Committee
PMU	Project Management Unit
PWD	Public Works Department (e.g. + 3 mPWD)
RHDHV	Royal HaskoningDHV (The Engineer, DDCS&PMS Consultants)
RAP	Resettlement Action Plan
RoR	Record of Rights

SIA	Social Impact Assessment
SLR	Sea Level Rise
SMRPFW	Social Management and Resettlement Policy Framework
SRP	System Rehabilitation Project
SWZ	South Western Zone
SZ	Southern Zone
SoB	Survey of Bangladesh
TRM	Tidal River Management
TBM	Temporary Bench Mark
ToR	Terms of Reference
WARPO	Water Resources Planning Organization
WB	World Bank
WMA	Water Management Association
WMIP	Water Management Improvement Project
WSIP	Water Sector Improvement Project
WUA	Water Users Association

## 1. Executive Summary

### 1.1 General

The Monthly Progress Report (MPR) is over the month of December 2018. The Executive Summary Chapter will highlight the various developments and issues at stake in a qualitative manner whereas the remaining Chapters will provide more quantitatively information and details on the activities and progress of the last month.

The Executive Summary will also first focus on the implementation of the 2 (two) construction Contracts for **Package-1** and **Package-2**. In this section, the Consultants activities are also addressed. Activities and issues of a more general nature will be addressed thereafter.

This Executtive Summary includes an Action Log which will be updated where relevant.

### 1.2 Implementation of works under Contracts for Package-1 and Package-2

In the current phase of the CEIP-1 Project, our focus is on progress of the construction works for Package-1 and Package-2. Other Consultants tasks are summarised separately in this Chapter.

#### 1.2.1 Package-1 implementation

The key issues for the month of December 2018 regarding Package-1 are summarised below as follows:

1. The physical progress up to December 2018 is 58.77%.
2. Based on this we already determined that the actual progress is too low to complete the Works within the time for Completion. In April 2018, the Contractor submitted his official claim for Extension of Time based on the following:
  - i) Delays due to late award of Contract on **01 November 2015** and delayed issuance of formal commencement of works on **26 January 2016**;
  - ii) Extension of time due to delays in handing over the land and possession of Site;
  - iii) Extension of time due to various disruptions to the planned progress of the Works, and
  - iv) Extension of time due to variations for increase in Quantities/Volumes.
3. Based on our analysis, we have recommended to the Employer to extend the time for completion until 30 June 2020 for Package-1 and as per our instruction the Contractor has prepared a detailed work plan. The Consultant has reviewed the work plan and found it acceptable. Extension of Time requires the approval of the Employer, which is still pending. The PMU submitted the EOT determination and supporting documents to the World Bank for review and concurrence.
4. Contractor has completed 25 Nos. drainage sluices and 18 Nos. flushing sluices and has been working together with the Engineer on the handing over procedures.
5. Following the Mission of the Environmental Team of the World Bank, follow-up has been given to areas of improvement and continued in the month of December 2018 also. The Contractor is involved in undertaking various steps required for improving the EHS issues through the training and motivation of Environment Specialists of the Project in the light as desired by the World Bank's Environmental Specialist during their field visits Engineer is pushing Contractor doing so and this has resulted in improvements in December 2018.
6. Meetings between Contractor and Engineer were held regarding the construction of the Nalian Closure Dam. Based on discussion, the Contractor submitted a preliminary design and drawing as per contract clause no. 2.4.2 for construction of Nalian Closure Dam. The preliminary design and drawings were reviewed by the Consultant's expert and provided his comments & suggestions on these for reviewing and finalization by the contractor. The comments & suggestions of the consultants were communicated to the Contractor. The Contractor prepared the design based on the review of the expert and several discussion meetings were held between

the Contractor and Engineer to finalize the design & drawings. After long discussion, the Engineer finally described to the Contractor regarding the work methodology based on the detailed briefing of the designer of the Contractor and requested to prepare the design and drawings accordingly. Finally, the Contractor has prepared the design and drawings and submitted to the Consultants. After reviewing the design and drawings the Consultant has approved it and requested to start the work immediately. However, the Contractor has mobilized and started the work but their activities are not yet satisfactory.

7. Replacement of hard rock by CC blocks has been agreed upon in Variation Order no. 2. and materialised. An updated Variation Order no.2 was submitted with some corrections based on comments received from the World Bank.
8. The installation of gates and hoists in 19 sluices have been completed and the remaining 20 nos. are in a boost stage of completion and will speed up the expenditures and consequently the disbursements in the coming months. Corrective action is executed on some of the sluices to install support brackets and reduce the diameter of the swivel wheel. –
9. Contractor is claiming a Variation Order No.3 for the payment of additional costs for a better-quality fill sand as instructed by the Engineer. The draft Variation Order is under review by Employer.
10. In the contract, there was provision for repairing works of 30 nos. flushing sluices out of which 14 nos. have been dropped (for falling the structures outside the alignment or not repairable) and 12 nos. are in progress and almost completed and remaining 4 nos. not yet started for want of data which are supposed to be supplied by the contractor. However, those will be taken up and completed at the beginning of the current dry season positively without fail. There was provision for repairing works of 2 nos. drainage sluices which are in progress and almost completed.

### **1.2.2 Package-2 implementation**

The key issues for the month of December 2018 regarding Package-2 are summarised below as follows:

1. The physical progress up to December 2018 is 5.65%,
2. The progress of Contractor during the last financial year was highly disappointing; they failed to meet the targets set for FY 2017-2018 committed in a meeting of 12<sup>th</sup> November 2017. Main issue for poor progress was the problem of timely availability of materials but that is now (almost) solved; local resources (including labour) are controlled by local parties and Contractor is therefore limited to import resource's including labour from other polders or suppliers.
3. However, the present performance of the Contractor in this dry season is not satisfactory also. Meetings with higher Management of Contractor were held and an action plan is being prepared, however, follow-up is lacking, and Engineer is pushing the Contractor. The Contractor has submitted an accelerated work program which has been reviewed and sent to PMU.
4. Following said World Bank Mission on environmental aspects of the CEIP-1 Project, The Contractor is involved in undertaking various steps required for improving the EHS issues through the training and motivation of Environment Specialists of the Project in the light as desired by the World Bank's Environmental Specialist during their field visit.

The Engineer discussed with Contractor about the work program for the FY 2018-19. They were advised to prepare an accelerated work program in such a way that the lapses of the progress of last FY can be coped up in this FY. According to advice, the Contractor submitted the accelerated work program which has been reviewed by the Consultants and submitted to PMU. It is, however, noted that the accelerated work program shows completion earlier than contractual date of completion and therefore not binding. An earlier date of completion would require a Variation Order. Other tasks of Consultants

The key issues for the month of December 2018 regarding the other tasks of Consultants are summarised below:

1. The Draft Final Report of EIA/EMP for Package-3 have been finalized and submitted to PMU for all 7 Polders. The PMU submitted the reports to the WB for their review. The World Bank has reviewed the report and given some comments/observations on the report. The responses of the comments/observations are under preparation.
2. The RAP of Package-2 was prepared based on LAP & also approved by the World Bank. But due to updating of LAP the area of land has been increased based on which RAP has been updated. This is now under review by PMU.
3. The Consultant supported the PMU with the missions and meetings of the World Bank delegations to the Project including site visits and various reports and recommendations.

### **1.3 Key challenges and risks and recommendations**

#### **1.3.1 Key challenges and risks**

Key challenges and risks are listed below:

1. The weather conditions in December 2018 were favourable for construction of civil works.
2. Risks related to the site situations not being available remains valid for December 2018; all stakeholders, being the Client, Client's regional offices, DC's, Contractor and Consultants, are doing their utmost efforts to organise this in a practical and pragmatic manner. It is Consultants view that progress is being made in the joint efforts in the interest of the CEIP-1 Project. This is an area which requires continued highest attention of all concerned;
3. The World Bank modified FIDIC Contracts which are in place stipulate specific deadlines in terms of modifications, possible claims and variations. Where it concerns approvals from higher levels within the BWDB, procedures should streamline to avoid undesirable claims from Contractors. This was noted in April 2018 and has yet to be made clear and was also discussed in above mentioned FIDIC training for follow-up actions. The division of (the FIDIC-like) roles between the Employer – Engineer – Contractor is not clear in practice and a point of concern.
4. Although a Modified Contract No. 2 for Consultancy Services has been signed in the beginning of this year, Consultants envisage that further optimisation is urgently required to cope with the dynamics of the CEIP-1 Project to safeguard the liabilities of the Client and the Consultant. The Man months for some critical experts will be depleted soon, while the construction supervision team needs extension of at least 1,5 years for continuation of the services. Consultant proposed a budget neutral adjustment (modified Contract No. 3) but the PD refuses to consider this, because there is no logic to modify the contract as the scope and time remain unchanged.

#### **1.3.2 Recommendations**

The following recommendations are made:

1. When there would be a land availability issue, joint efforts of Contractors, Engineer and Employer should be enhanced to solve issues at stake. It is recommended that the Employer plays a visible role here and increased efforts should continue; less reporting and more resolute on the spot;
2. Streamline BWDB procedures coping with stipulations of the (FIDIC-like) Contracts instead of assuming (non-contractual) BWDB procedure's;

## 1.4 Action Log

In Table 1-1 below an action log is introduced to monitor actions required to be taken forward in the interest of the CEIP-1 Project. It will be updated monthly, and actions fulfilled will be deleted.

Table 1-1: Action Log

Action No.	Description of action	By when	By whom	Done by and can be deleted from this Action Log next month		Remarks
				Date	Done	
Nov17-001	PMU-World Bank Environmental actions agreed upon on 23 <sup>rd</sup> November 2017	Continuous	Consultants	Continuous	mostly	Consultant's report improvements done, Contractor achieved most of the requirements, EHS improvement is continued
Nov17-003	Revised Work Plan including methodology and resource planning.	30-11-17	Contractor		Partly	<ul style="list-style-type: none"> <li>Contractor Package-1 has submitted a draft work program based on Claim No. 2 for Extension as per recommendation given by the consultants and the submitted work program has been reviewed and sent to PMU.</li> <li>Contractor Package-2 has submitted an accelerated revised work program which has been reviewed by the consultants and sent to PMU.</li> </ul>
Nov17-006	Payment in connection to land availability and instructing DC's accordingly.	31-12-2017	CEIP-1 PMU,		Partly	This is progressing but need acceleration.
Dec17-002	Agree with Contractor Package-1 on claim for extension and increase of cost.	09-04-2018	Contractor and Engineer			The extension of time up to June 2020 is recommended by the Consultants with judicious justifications and sent to PMU. As per instruction of the Project Director the Contractor is requested to submit the Application for Extension of Intended Completion Date, in specified Proforma, duly filled in but that not yet received from the Contractor. Rather the contractor expressed their unwillingness to submit that proforma because it would require waiving his right for claiming additional costs which is still under consideration.
Dec17-003	Prepare workshop on innovative design approaches adopted for CEIP-1 Project,	31-01-2018	Consultants			The Workshop for new design approaches for CEIP-1 was organized in 27 May 2015. Hence the action as asked for may be deleted.
Jan18-001	Advise Contractors to involve international experts in various fields.	28-02-2018	Engineer			Contractor Package-1 is gradually involving international experts; Contractor Package-2 yet to get grip on this.

Action No.	Description of action	By when	By whom	Done by and can be deleted from this Action Log next month		Remarks
				Date	Done	
Jan18-002	Take measures to further increase progress of works Package-1	20-02-2018	Contractor and Engineer			The Contractor has submitted a draft work program following the recommended extension of time up to June 2020 and the same has been reviewed and sent to PMU.
Jan18-003	Take measures to further increase progress of works Package-2	20-02-2018	Contractor and Engineer			Meetings with higher Management of Contractor were held and an action plan is being prepared, however, follow-up is lacking, and Engineer is pushing the Contractor. The Contractor has submitted an accelerated work program which has been reviewed and sent to PMU.
Feb2018-001	Follow-up Environmental Mission World Bank February 2018	1-05-2018	Consultants			Ongoing
Mar2018-003	Prepare guiding document for accelerating work for Package-1 and Package-2 during monsoon	15-04-2018	Engineer			This action was implemented during the regular meetings on work progress and for preparing the updated work programs for the fiscal year 2018-2019
	Submission of Contractor's Monthly Work Program with detail resources allocation		Engineer			This action is impossible to execute as the monthly program is depending on many factors in terms resource allocation.

## 1.5 DDCS&PMS Contractual Tasks

The specific objectives of the CEIP-1 Consultancy Services are described by the following tasks:

- Task A : Review and update the designs bidding documents and related environmental and social plans (EIAs, EMPs, and RAPs) already prepared, related to Package-1 only during the inception phase of the Project; updates are being done regularly in LAP/RAP activities;
- Task B : Prepare detailed designs for all remaining polders and works of Package-2 and Package-3 that would be included in the Project, including the Engineering and Environment and Social studies (mathematical modelling, detailed designs, EIAs, EMPs/EAPs, geotechnical investigation); this task is ongoing;
- Task C : Supervise construction of all works under the Project, and do the contract management as "The Engineer", according to FIDIC rules and regulations and the World Bank Guidelines and its standard bidding documents;
- Task D : Provide overall project management support (PMS) to Project Management Unit (PMU) under the BWDB agency (mainly consisting of support for reporting, mapping products, data bases, preparation of all stakeholder's meetings, establishment of minutes of meeting, special thematic reporting, joint teaming up to establish thematic reports, oral/written advice on contract management and project management of site works; and seconding and assisting WB missions to the field).



## 2. Summary of Key Achievements during the reporting month

### 2.1 Package-1

No.	Item	Key Achievements during the month – Package-1
1	Modelling	Not applicable
2	Surveys and Design	Several designs prepared and implementation of some Emergency Works have been completed and protected the Polder area from saline water intrusion and some Emergency Works are in progress.
3	Works	<ul style="list-style-type: none"> <li>➤ Construction / Re-Sectioning of Embankment: 0.00 Km (Full) &amp; 1.407 Km (Part)</li> <li>➤ Excavation / Re-Excavation of Drainage Channel: 0.00 Km</li> <li>➤ Construction of Drainage Sluice: 0 no. (Full) &amp; 14 nos. (Part)</li> <li>➤ Construction of Flushing Inlet: 0 nos. (Full) &amp; 10 nos. (Part)</li> <li>➤ Repair of Flushing Inlet: 0 nos. (Full) &amp; 12 nos. (Part)</li> <li>➤ Embankment Slope Protection Works: 0.00 Km</li> <li>➤ River Bank Protection Works: 0.076 Km</li> </ul>
4	Contractor Resources	Updated by Contractor Package-1 in terms of labour and equipment.
5	RAP and status of resettlement Payment	<ul style="list-style-type: none"> <li>• 3893 non-titled EPs (squatters) against 8 (eight) indents have been paid as compensation, grants and resettlement benefits against their affected residential, commercial and common structures under Package-1. The amount paid as compensation to EPs is BDT in Lac 5716.74. Moreover, the compensation has been paid for Social Forestry (27 nos. for CPR) is BDT In Lac 16.12 and for removing 48 nos. electric poles an amount of BDT in Lac 12.75.</li> <li>• About 97.15 % of paid EPs have already been relocated. The percentage of paid EPs relocation was slow in December due to the harvesting of Aman crop in the field and involvement of Aps in national election.</li> </ul>
6	LAP	The possession of land has been received for Polder-32, 33, 35/1 and 35/3 (original proposed). New proposals for polder-33 & 35/1 are under process as per Land Acquisition Act, 2017 with DC, Khulna and Bagerhat.
7	Grievances	147 complaints/grievances have been received up to December 2018 by GRC. 24 complaints/grievances have been resolved at the entry level, while 114 cases have been resolved through investigations and formal hearing by GRC. 09 lodged grievances have been trying to resolve in entry level by the GRC.
8	Environment	Monitoring of safeguards measures and compliances is ongoing and amongst others the World Bank environment, health and safeguard mission have visited the project area in April 2018.
9	Value of Physical Work Done	The total value of physical work done up to <b>December 2018 is BDT 3,602.994 million</b> and during <b>December 2018 is BDT 102.97 million.</b>
10	Finance	Total expenditure incurred up to IPC-15 is <b>BDT 41104.98 million</b> including 10% advance payment. An amount of <b>BDT 273.63 million</b> has been recovered from the advance payment of <b>BDT 660.89 million.</b>
11	Contract Administration	The Variation Order No. 2 (updated) has been agreed upon and submitted to PMU. Variation Order No.3 is under review by Employer.

## 2.2 Package-2

No.	Item	Key Achievements during the month – Package-2
1	Modelling	Not applicable.
2	Surveys and Design	Designs were completed long ago. Contractor CICO has completed some sections of pre-construction surveys of 6 Polders and subsequently shop drawings also completed based on which the physical works were executed during the first dry season period 2017-2018. The Contractor will conduct pre-construction surveys for the rest sections of the Polders and then to be followed up by making the shop drawings for the 2 <sup>nd</sup> & 3 <sup>rd</sup> dry season period 2018-2019 and 2019 -2020 respectively. Task force will be included in all survey works.
3	Works	<ul style="list-style-type: none"> <li>➤ Construction / Re-sectioning of Embankment: 0.00 Km (Full) &amp; 0.85 Km (Part)</li> <li>➤ Construction of Drainage Sluices: 15 nos. (p)</li> <li>➤ Repair of Drainage Sluices: 1 no. (p)</li> <li>➤ Construction of Flushing Inlets: 13 nos. (p)</li> <li>➤ Repair of Flushing Inlets: 2 nos. (p)</li> <li>➤ River Bank Protections: 0.06Km (F)</li> <li>➤ Embankment Slope Protection Work: 0.00 km</li> </ul>
4	Contractor Resources	Contractor has received the full advance payment against the first instalment & had been spent the money to purchase machineries and equipment; Chinese engineers and supporting personnel have mobilized, and the same is true for the recruitment of local labour; facilities and buildings are under construction now. The 2 <sup>nd</sup> instalment is using for procurement of construction materials and other field requirements.
5	Implementation of RAP	<ul style="list-style-type: none"> <li>• Necessary papers and documents such as Bank Account deposit slip, photocopy of national ID, have been collected from the Non-Titled EPs. ID Cards are also being prepared for non-titled EPs (squatters, tenants, wage laborers)</li> <li>• 227 Focus Groups were formed and 994 focus group meetings have been held with the affected communities until December 2018.</li> <li>• Computerized datasheet on household information and on the number of structures by category has been further checked and verified before generation of tables for updating of the RAP.</li> <li>• PAVCs &amp; GRC of Barguna, Pirojpur, Jhalokhati and Patuakhali District have been formed for all 6 Polders under Package-2.</li> <li>• Recommended rates of PAVC for Polder 40/2, 41/1, 43/2C, 47/2 &amp; 48 have been approved by the DG, BWDB. After completing the all process by PAVC and BWDB, RAP Team are already constituted to generate EP file, EC file, Debit Voucher and other necessary activities for compensation payment &amp; resettlement benefits and other associated work.</li> </ul>
6	Preparation of LAP	<ul style="list-style-type: none"> <li>• LAP of Polder-39/2C has been approved by MoL Notice U/S-6 has been served and fund placed by BWDB accordingly. Estimate has been received for 0.14 ha. preparation of final estimate is ongoing. LAPs of Polder-40/2 &amp; 41/1 have been approved by MoL. Issuance of notice U/S-7 of Polder-40/2 &amp; 41/1 is going on. LAPs of Polder- 47/2 &amp; 48 have been approved by MoL. Issuance of Notice U/S-6 is completed and preparation of estimates are under process.</li> <li>• JV of Polder-47/2 and Polder-48 is completed.</li> </ul>

No.	Item	Key Achievements during the month – Package-2
7	Grievances	<ul style="list-style-type: none"> <li>No grievance was lodged until now. Various participatory committees have been formed before full length of construction work started.</li> </ul>
8	Environment	Second version of the C-ESMPs for Package-2 have been finalized and submitted to World Bank through PMU, which is a living document that will be continuously updated and improved as and when required.
9	Value of Physical Work Done	The total value of physical work done up to <b>December 2018</b> is <b>BDT 730.65 million</b> and during <b>December 2018</b> is <b>BDT 232.33 million</b> .
10	Finance	Total expenditure incurred up to IPC-04 is BDT 1545.25 million including 10% advance payment.
11	Contract Administration	No change in Contract was operated.

## 2.3 Package-3

No.	Item	Key Achievements during the Month – Package-3
1	Mathematical Modelling	Mathematical modelling to detailed design parameters of the 7 Polders of Package-3 were completed in the month of February 2018 and sent to the Superintending Engineer, Design Circle-5 for review. Very recently, the review has been completed and gave clearance for starting the detailed design.
2	Surveys and Design	Surveys were completed in 2017 and immediately after getting the clearance, the preparation of design is in process. The outcomes of the mathematical modelling are being used as input and boundary conditions for design of the structures under Package-3 with ambition to finish them by January 2019
3	Bid Documents	Some sections of the Bidding Documents have been advanced and waiting for the preparation of BOQ yet the design and drawing of some components are to be completed.
4	RAP	<ul style="list-style-type: none"> <li>Following the accomplishment of the map of alignment fixing by the DDCS &amp; PMS Engineering Team, the LAP/RAP team has completed the Households (HHs) numbering and IoL survey in all 7 polders under Package-3 of CEIP-1.</li> <li>A total of 20 Community/Stakeholder Consultation meeting were held at 15 different venues of the Polders. Preparation of draft RAP is under process.</li> </ul>
5	LAP	Preparation of LAPs of 6 Polders under Package-3 were completed and LAP of polder-14/1 was almost completed. These are now being revised or verified as per latest land acquisition Act-2017.
6	Environment	EIAs of all the 7 Polders have been completed as final draft version and submitted to the stakeholders for review.

## 1.6 DDCS&PMS Consultancy Services

No.	Item	Key Achievements during the Month - Consultant
1	Construction Supervision Systems/Tools	Package-1 physical progress is 58.77% (4 Polders). Package-2 physical progress is 5.65% (6 Polders). Package-3 no contract, hence no site works (7 Polders).

## 3. Project Progress

### 3.1 Task A: Update Design, Bid Documents, RAP, EIAs, etc. for Package-1 Polders

#### 3.1.1 Design

The Detailed Design of Drainage Cum Flushing (D/S) Sluice, Flushing cum Drainage Sluice (F/S), Construction/Re-sectioning of Embankment, Excavation/Re-excavation of Drainage Channels, River Bank Protection, Slope Protection and Construction of Closure Dam were Completed and approved by the Competent Authority. The approved designs were updated at the time of commencement of Implementation of the Civil Works.

#### 3.1.2 Bid Documents

The Bid Documents covering all the activities mentioned above were completed and approved by the competent authority based on which the tender of Package-1 was floated and finalized and subsequently, the contract was awarded to the lowest bidder.

#### 3.1.3 RAP Implementation Package-1

##### 3.1.3.1 Implementation Activities

RAP Implementation for Polders-32, 33, 35/1 and 35/3 under Package-1 is going on. Individual entitlement has been calculated based on Inventory of Losses (IoL) survey and as per PAVC recommended rate of the structures and other assets. A total of **6,127** entities (residential HHs, commercial premises and common property structures) were identified during updating of Inventory of Losses (IoL) in March-May 2015 of whom 820 on private land (titled) and 4,633 on government land non-titled EPs (Squatters) but among 4,633 EPs, 448 tenants and 226 wage laborers will be included.

Due to the changes/adjustments of the alignment and Joint Verification Survey (JVS) conducted by respective DC offices, the total numbers of entities have been changed. As a result, some non-titled EPs became titled EPs on account of JVS by DC office and some EPs were added or deducted on account of changes/adjustments of the alignment of embankment, changing location of DS and including dockyards labourers as non-titled EPs. The final numbers of entities as of December 2018 stands at **5,346** of whom **4,618 non-titled (Squatters)**, **448 tenants** and **280** as wage laborers. It is to be mentioned here that **7 new EPs have included in Polder-35/3** due to reshaping the embankment alignment. As a result, the total number of non-titled EPs become to 5,346, as of December 2018. The Polder-wise non-titled EPs and payment of compensation as resettlement benefit is reflected in Table 3-1 below.

Table 3-1: Updated numbers of Non-titled entities up to December 2018

Polder	Non-titled (Squatters)	Tenants	Wage Labourers	Total	No of EPs Paid	Amount paid in Lac
32	1251	86	23	1360	1247	1532.70
33	1462	157	75	1694	1151	1620.82
35/1	1623	196	171	1990	1236	2171.72
35/3	282	9	11	302	259	391.50
<b>Total</b>	<b>4618</b>	<b>448</b>	<b>280</b>	<b>5346</b>	<b>3893</b>	<b>5716.74</b>
Paid for Social Forestry for 27 unit in 33 & 35/3					27	16.12
Paid for Electric Pole for 48 Unit in 33, 35/1 & 35/3					48	12.75
<b>Grand Total</b>					<b>3968</b>	<b>5745.61</b>

For payment of compensation and resettlement benefits to all kinds of EPs, necessary documents are being prepared as a continuous process. Progresses of activities in terms of preparation of documents are as follows:

- i. Among the total number of **5,346 non-titled** EPs, the ID numbers of all (100%) were devised;
- ii. Opening of Bank Accounts of non-titled EPs completed for 5,320 (99.65%);
- iii. Preparation of EP ID Cards for non-titled EPs 5,320 (99.65%);
- iv. EP ID cards have been checked & verified by Resettlement Specialist is 5,320 (99.65%); EP ID cards have been issued by XEN 5,320 nos. (99.65%)
- v. Necessary processing is under process for the newly affected 26 EPs as described above.

### 3.1.3.2 Payment and compensation benefits

Payment of compensation, grants and resettlement benefits for four Polders under Package-1 started in June 2016. As of December 2018, a total of BDT **5745.61 in Lac** has been paid to the **3,968** non-titled EPs (squatters) as compensation, grants and resettlement benefits against their affected residential, fish gher, commercial, tress including 27 nos. for social forestry and common structures (electric poles) under first to eighth indent of Package-1 (as shown in table 2.1). It is to be noted that a total 48 electric poles are included in the payment.

Payment under 9<sup>th</sup> Indent for Polder 35/1 has submitted in October 2018 to the Project Director and which is being processed for immediate payment. It is to be noted that 20 nos. of EPs list has been submitted to the PD office out of which 16 nos. of EPs has been finalised after the verification by the concerned of BWDB, CEIP-1, Khulna. Remaining four has deducted from the list as per verification and field requirement. The status of the 9<sup>th</sup> indent has shown below:

Table 3-2: Status of 9<sup>th</sup> indent under Package-1

SI No.	Polder Number	Eps	Amount
1	35/1	16	2574002.00
<b>Total =</b>		<b>16</b>	<b>2574002.00</b>

### 3.1.3.3 Payment of Compensation under Law (CUL)

DC office both Khulna & Bagerhat has been started the payment of compensation under Law (CUL) to the Titled EPs. As of December 2018, DC office Khulna & Bagerhat has paid a total BDT **5225.68** against **2003 nos.** of awardees among Titled EPs (648 nos. of Polder-32, 290 nos. of Polder-33, 720 nos. of Polder-35/1 & 345 nos. of Polder-35/3). **The progress has been made in December'18 to payment of 09 awardees.** The progress of payment of compensation under law (CUL) is shown in Table 3-3:

Table 3-3: Polder- wise payment made by DCs Khulna & Bagerhat till December 2018

Polder No.	Total Awardees	No of awardees applied to DC	Total estimated amount of CUL (BDT) Lac	Administrative Cost for LoA (BDT) Lac	Net Payment Amount By DC (BDT) Lac	No. of Paid awardees	Nos. of payment cheque distributed by DC	Total paid Amount in BDT Lac	Progress in percentage (based on 100%)
1	2	3	4	5	6= (4-5)	7	8	9	10
32	3003	1447	1615.37	112.70	1502.67	648	363	884.97	54.78
33	2066	928	770.04	53.72	716.31	290	159	430.14	55.85
35/1	1087	939	4525.92	88.74	4437.18	720	679	3018.74	66.70
35/3	489	448	1510.51	29.62	1480.89	345	284	970.98	64.28
<b>Total</b>	<b>6645</b>	<b>3762</b>	<b>8421.84</b>	<b>284.78</b>	<b>8137.06</b>	<b>2003</b>	<b>1,485</b>	<b>5304.83</b>	<b>63.00</b>

### 3.1.3.4 The substantial progress in payment of compensation under law (CUL) in package-1

The payment has been made to 1126 residential structures against target 1545, paid for commercial structure 47 out of 67 and paid for land 830 awardees out of 5033. **During the month paid to 09 awardees in package-1.** The Polder wise progress has stated in the following Table 3-4.

Table 3-4: Substantial progress report in payment of compensation under law till December 2018

Polder No.	No. of Titled EPs (Awardees)				Polder Wise Payment Summary			
	Residence	Commercial	Land	Total	Paid for residence	Paid for commercial structure	Paid for land	Total
1	2	3	4	5	6	7	8	9
32	397	14	2592	3003	261	09	378	648
33	185	32	1849	2066	96	21	173	290
35/1	729	15	343	1087	559	10	178	720
35/3	234	06	249	489	210	07	101	345
<b>Total=</b>	<b>1545</b>	<b>67</b>	<b>5033</b>	<b>6645</b>	<b>1126</b>	<b>47</b>	<b>830</b>	<b>2003</b>

The payment of CUL from the DC office is going on pace. The LAP/RAP team identified the sloth motion of the payment procedures by the concerned DC offices. In this regard, the LAP/RAP team has been trying to motivate the EPs by arranging the Focus Group Discussion (FGD) and Consultation meetings. They also assisting the EPs to prepare the payment documents and advising them on related matters. The visual presentation is shown below:



Figure 3-1: FGD by LAP/RAP team for DC Payment, Khulna for Polder-32 & 33



Figure 3-2: FGD by LAP/RAP team for DC Payment, Bagerhat for Polder-35/1 & 35/3

### 3.1.3.5 Relocation Status and Assessment of Relocation

Following the payment of compensation against the First to Eighth indents the affected people started relocating their structures by their own choice. It was disseminated to the people that if the affected people show their willingness to group relocation, the project will provide necessary civic amenities like construct entrance way to the home, sanitation, tube well etc. BWDB, DDCS&PMS Consultant have been encouraging the AP for group relocation so that there will be little chance to come back on the embankment. But in most cases, the affected people have been showing different opinions in group or individual relocation. Self-relocation is being slow due to Aman cultivation. Aman cultivation continued till end of December/18 in the field. It will increase during the upcoming dry season. The Project concern and RAP/LAP team are trying to arrange group relocation.

- The majority (54.59%) EP has relocated on their own land;
- 11.94% on newly purchased land;
- 16.83% EP has replaced to relative's or others' land;
- 12.82% have been relocated temporarily at nearby area;
- About 2.85% of the paid EPs are yet to be relocated from the ROW.
- About 0.62% & 0.36% have been relocated respect lively in Market & Group Relocation.

Table 3-5: Update Relocation Status as of December 2018

Status of relocation	Number of squatters relocated by Polders					
	Polder 32	Polder 33	Polder 35/1	Polder 35/3	Total	%
Relocated on own land	665	709	620	131	2125	54.59
Relocated on purchased land	112	44	267	42	465	11.94
Relocated on relative & other's land	235	166	186	68	655	16.83
Relocated Temporarily at nearby area (Govt. Land)	202	169	127	01	499	12.82
<b>Total Relocated-A</b>	<b>1214</b>	<b>1088</b>	<b>1200</b>	<b>242</b>	<b>3744</b>	<b>96.17</b>
Not yet relocated	19	63	29	00	111	2.85
Market Relocation	00	00	07	17	24	0.62
Group Relocation	14	00	00	00	14	0.36
<b>Total Relocation-B</b>	<b>33</b>	<b>63</b>	<b>36</b>	<b>17</b>	<b>149</b>	<b>3.83</b>
<b>Total Relocation target (A+B) =</b>	<b>1247</b>	<b>1151</b>	<b>1236</b>	<b>259</b>	<b>3893</b>	<b>100.00</b>

### 3.1.4 Status of Physical and Commercial Displacement/Relocation (Non-titled)

The status of Physical displacement and Economical displacement (Relocation) of Package-1 for four Polders are given as follows:

Table 3-6: Physical displacement and Economical displacement (non-titled) of Package-1

Sl. No	Polder No.	Physical Displacement	Economical/Commercial Displacement	Total Displacement
1	32	860	387	1247
2	33	813	338	1151
3	35/1	885	351	1236
4	35/3	148	111	259
	<b>Total=</b>	<b>2706</b>	<b>1187</b>	<b>3893</b>

### 3.1.5 Relocation Status of Physical Displaced household in Package-1

It is evident from the that majority of the displaced people (57.28%) relocated to self-managed land. It is very important that 15.45 % people have been settled in purchased land and hope the group will be sustained. Only 1.03% people yet to manage any place/land for making shelter/house.

Table 3-7: Relocation Status of Residence (Physical Displacement) in Package-1

Status of relocation	Number of squatters relocated by Polders					
	Polder 32	Polder 33	Polder 35/1	Polder 35/3	Total	%
Relocated on own land	460	520	474	96	1550	57.28
Relocated on purchased land	103	35	241	39	418	15.45
Relocated on relative & other's land	173	126	169	13	481	17.78
Relocated Temporarily at nearby area (Govt. Land)	109	106	--	--	215	7.95
Not yet relocated	01	26	01	00	28	1.03
Group Relocation	14	--	--	--	14	0.52
<b>Total =</b>	<b>860</b>	<b>813</b>	<b>885</b>	<b>148</b>	<b>2706</b>	<b>100</b>

### 3.1.6 Relocation Status of Economical / Commercial Displacement in Package-1

The relocation status of Economical/Commercial displacement of 4 Polders under Package-1 is shown below:

Table 3-8: Status Relocation Status of Economical/Commercial Displacement (non-titled)

Status of relocation	Number of squatters relocated by polders					
	Polder 32	Polder 33	Polder 35/1	Polder 35/3	Total	%
Relocated on own land	205	189	146	35	575	48.44
Relocated on purchased land	09	09	26	03	47	3.96
Relocated on relative & other's land	62	40	17	55	174	14.66
Relocated Temporarily at nearby area (Govt. Land)	93	63	127	01	284	23.93
Not yet relocated	18	37	28	00	83	6.99
Market Relocation/Group Relocation	-	-	7	17	24	2.02
<b>Total =</b>	<b>387</b>	<b>338</b>	<b>351</b>	<b>111</b>	<b>1187</b>	<b>100.00</b>

### 3.1.7 The substantial progress in relocation of the Titled Affected households compensated under law (CUL) in package-1

The relocation so far made for the titled affected households those of who were compensated under law are stated in the following table. The progress in relocation reveals that 986 residential has relocated out of 1126 where progress for the month is 67 and 40 commercial structures relocated out of target 47 where progress for the month is 4. The Polder wise progress has stated in the following table.

Table 3-9: Polder wise Number of relocated Residence and Commercial of Titled EP (Awardees) compensation under law

Number of relocated Residence and Commercial Titled EPs (Awardees)polders				
Polder No.	Residence Payment	Relocated	Commercial Payment	Relocated
32	261	213	9	7
33	96	72	21	19
35/1	559	496	10	8
35/3	210	205	07	06
<b>Total</b>	<b>1126</b>	<b>986</b>	<b>47</b>	<b>40</b>



This percentage has mostly remained static than the prior times due to political reason for 11<sup>th</sup> national election and the relocation rate will increase in the upcoming winter season. The APs are planning and working for self-relocation individually. LAP/RAP field staffs have been closely monitoring the relocation progress and recording status before and after relocation. The relocation activities are going on.



Figure 3-3: HH 61 Before relocation of Polder-33



Figure 3-4: HH 61 After relocation of Polder-33



Figure 3-5: HH 62 Before relocation of Polder-33

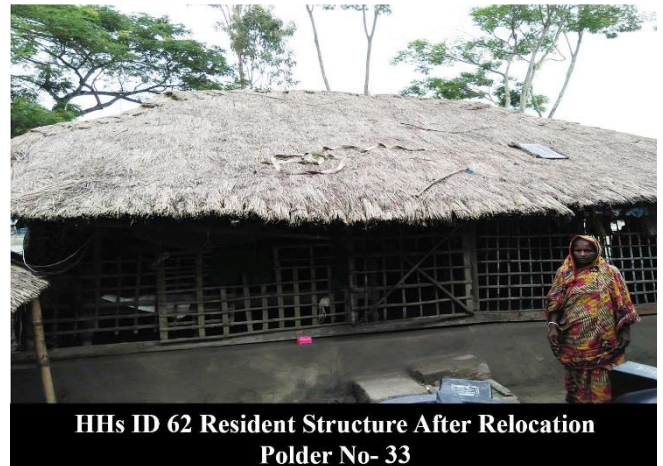


Figure 3-6: HH 62 After relocation of Polder-33



Figure 3-7: HH 74 Before relocation of Polder-33



Figure 3-8: HH 74 After relocation of Polder-33



**HHs ID 1712 Resident Structure Before Relocation**  
**Polder No. 35/1**

Figure 3-9: HH 1712 Before relocation of Polder-35/1



**HHs ID 1712 Resident Structure After Relocation**  
**Polder No. 35/1**

Figure 3-10: HH 1712 After relocation of Polder-35/1



**HHs ID 1713 Resident Structure Before Relocation**  
**Polder No. 35/1**

Figure 3-11: HH 1713 Before relocation of Polder-35/1



**HHs ID 1713 Resident Structure After Relocation**  
**Polder No. 35/1**

Figure 3-12: HH 1713 After relocation of Polder-35/1



**HHs ID 1732 Resident Structure Before Relocation**  
**Polder No. 35/1**

Figure 3-13: HH 1732 Before relocation of Polder-35/1



**HHs ID 1732 Resident Structure After Relocation**  
**Polder No. 35/1**

Figure 3-14: HH 1732 After relocation of Polder-35/1



Figure 3-15: House relocation at FS-1 in Polder 35/3



Figure 3-16: Removing house for construction of FS-1 in Polder 35/3

### Group Relocation

A group Relocation carried out at Uttar Kamarkholain in Polder-32. The name of the relocation site is titled as CEIP Village at Uttar Kamarkhola near BWDB office. LAP/RAP team is continuing effort for convincing and motivating APs for more group relocation in other places in four Polders under Package-1.



Figure 3-17: Group Relocation site: Meeting at CEIP Village, Uttar Kamarkhola under Polder-32

### Business/Market Relocation

Some shopkeepers have relocated by themselves and some are waiting for compensation. Some of them have already been selected the relocation spots/location and hope that they will shifted soon. Two Bazars (Mollikerber Madrasha Bazar in Polder 35/3 & Terabeka Bazar in 35/1) have been identified for relocation and LAP/RAP team is continuing motivational effort in these areas.

Since most of the squatters are landless and some of them have arable land only which is not suitable for living. So, squatters are encouraged for purchasing of land with the compensation they are provided. It is also evident that the compensation for structure has been adequately assessed and affected people are apparently satisfied with the compensation amount they get.

Business owners are encouraged for relocating their business concerns in a cluster market at the locations nearby of the affected market. The following photographs shows the new market locations. *During the month, LAP/RAP and DDCCS & PMS Consultants visited the site and encouraged shop owners to make a concrete plan for permanent relocation of all shops to establish there a full market.*



Figure 3-18: Relocation site at Mollikerber Madrasha Bazar in Polder-35/3

### 3.1.8 Grievance Redress Mechanism (GRM)

A total 15 Grievance Redress Committees (GRC) have been formed (1 for each Union) in four Polders under Package-1 with the representatives of BWDB, Union Parishad, Educational Institution, PAPs, Women representatives and LAP/RAP team. The organogram of GRC is given as follows Table 3-10:

Table 3-10: Organogram of GRC

Concern Executive Engineer, CEIP-1, BWDB,	Convenor
UP Representative	Member
Representative of Educational Institution	Member
Representative of Women Local Group	Member
Representative of PAP Group	Member
Representative of IA/LAP-RAP Team	Member Secretary

A total number of 147 complaints/grievances have been received up to December 2018 by GRC. Among those, 24 cases have been resolved at the entry level, 114 cases have been resolved through investigation and formal hearing by GRC. It is to be mentioned here that a total of 09 lodged grievances have been trying to resolve in entry level by the GRC and necessary actions are continuing by the Member Secretary/ LAP/RAP team and the convenor of the GRC. Table 3-11 shows the status of complaints/cases received & resolved by GRC.

Table 3-11: The status of complaints/cases received and resolved by GRC

SL No.	District	Polder no	Total Complaints/ cases	Resolved at entry level	Resolved by GRC	Newly lodged Grievances
1	Khulna	32	43	9	29	05
2	Khulna	33	14	8	06	0
3	Bagerhat	35/1	25	3	19	03
4	Bagerhat	35/3	65	4	60	01
<b>Total =</b>			<b>147</b>	<b>24</b>	<b>114</b>	<b>09</b>

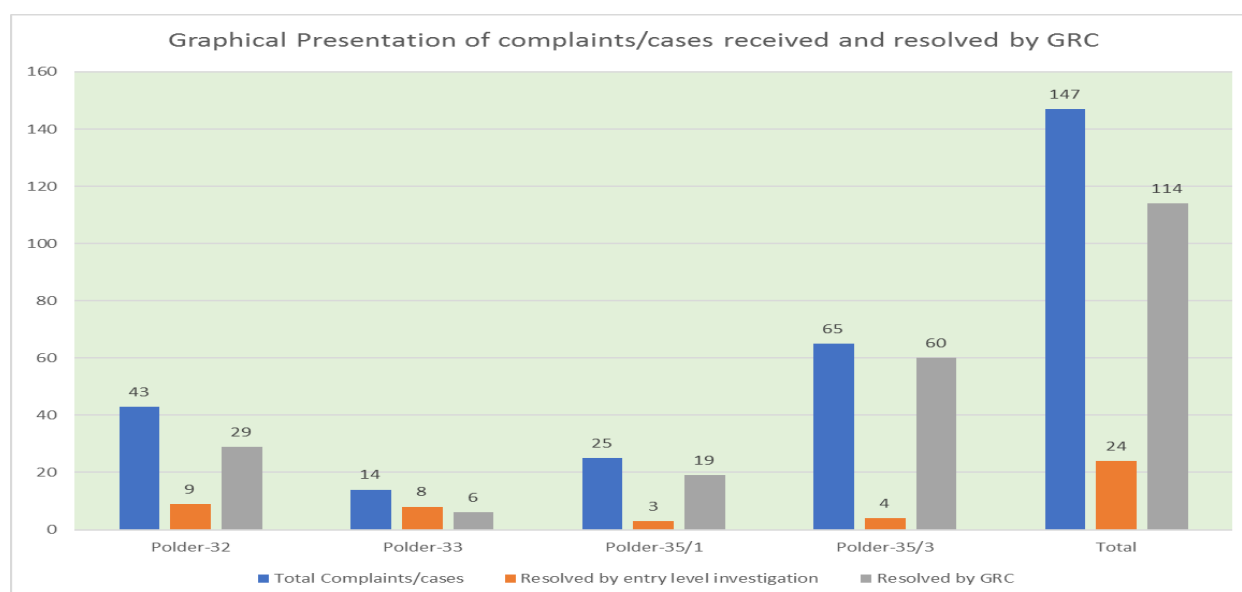


Figure 3-19: Graphical Presentation of Complaints / cases received and resolved by GRC

BWDB and RAP team maintain records in detail about the complaints, procedures and the resolutions adopted in a register including intake register, resolution register and closing register followed by the policy of the RAP.

Recently a new grievance was submitted by Salina Begum on 3<sup>rd</sup> October 2018 from Polder 35/3. Her grievance was taken care properly, the LAP/RAP Team and DDCS & PMS Consultants visited the site several times, made several discussions with Salina Begum during November and December 2018. Finally, the LAP/RAP Team is collecting necessary land acquisition related documents from the concern DC office, checking together the relevant documents with DDCS & PMS Consultants as well as with Salina Begum which will take more time to complete the full investigation to resolve the grievances.

### **3.1.9 Consultation and Participation (Citizen Engagement)**

Consultation meetings are the best resolutions to bridge the gap between the APs and the primary stakeholders of the project (donors, acquiring and requiring bodies, implementing agencies etc.). Project beneficiaries and affected communities can participate directly in consultation meetings.

DDCS and PMS Consultants have been reporting community participation in the progress report in 3.1.5.5 as Focus Group Discussion mainly in Package-2: Accordingly, 227 focus group were formed in package-2 and a total 980 FGD meetings were held till September 2018 where 88 were held in September only.

Regard to consultation meeting on social issues, consultation meetings as per need have been conducting by the DDCS and PMS Consultants along with the PMU experts. For example, similar consultations were organized in four Polders under package -1 in December 2018 too which reported in this monthly progress report. The main objectives of those consultations were as follows:

#### **The main Objectives of this meeting are as follows:**

- Spot resolutions for removable of obstacles to start or run construction/civil works.
- To identify the challenges faced by the titled EPs to receive the compensation from the concerned DC offices against acquired properties.
- To provide more clarification about the submission of necessary papers document required to submit the DC offices for receiving the compensation money.
- To find the solutions and provide proper guidelines and assistance for preparing the required documents.
- To help the Titled EPs and concerned DC offices to expedite the compensation procedures.
- To build awareness about Environment and Social Safeguard Issues of CEIP-1 project.
- To cooperate DC office and titled EPs.

**During the month, numerous informal consultation meetings were held among DDCS & PMS Consultants, LAP/RAP Team, BWDB local affected beneficiaries and local government representatives both in package-1 and package-2.**

### 3.1.10 Status of Land Acquisition of Package-1

The possession of land has been received for Polder-32, 33, 35/1 and 35/3. An additional Land Acquisition Plan (LAP) was submitted to the DC, Khulna & Bagerhat under Polder-33 & 35/1. A total of 9.86 ha of Polder in 35/1 against three mouza (Kumarkhali, Rayenda & Sharanakhola Mouza) & 5.87 ha of Polder 33 against two mouza (Banishanta & Chunkuri) land were proposed for newly acquisition but 2.53 ha under Chunkuri mouza has already been dropped from the acquisition plan. The proposal for 3.34 ha Banisanta mouza has sent on 10/10/2018 to the MoL by DC for final approval. But for Polder-35/1, revised land acquisition proposal for 5.67 ha of land is under process due to recent river erosion & technical reason (shifting the alignment in the Sharankhola mouza in Bagi). Status of land acquisition for four Polders under Package-1 is furnished below.

Table 3-12: Status of land acquisition for four Polders under Package-1

SL No	Polder no.	District	Program for L.A. (ha)	Proposal submitted to DC (ha)	Approved (ha)		Possession received(ha/ date)	Pending (ha)		Fund placed BDT in Lac	Payment of CUL by DC in BDT Lac	Remarks
					DLAC	MoL		DC	MoL			
1	2	3	4	5	6	7	8	9	10	11	12	13
1	32	Khulna	50.65	50.65	50.65	50.65	50.65 (26.09.17)	-	-	1615.37	<b>884.97</b> <b>(54.78%)</b>	Persuasion going on with Aps to expedite the CUL payment.
2	33	Khulna	14.28	14.28	14.28	10.94	10.94 (27.09.17)	-	3.34	770.04	<b>430.14</b> <b>(55.85%)</b>	Persuasion going on with Aps to expedite the CUL payment. Proposal of 3.34 ha of land from Khulna has sent to MoL (10/10/18) for final approval.
3	35/1	Bagerhat	40.03	40.03	30.17	30.17	30.17 (22.03.18)	09.86	-	4525.92	<b>3018.74</b> <b>(66.70%)</b>	Persuasion going on with Aps to expedite the CUL payment. Necessary activities are going on for all three mouzas by the DC office on the newly proposed lands (9.86 ha)
4	35/3	Bagerhat	24.81	24.81	24.81	24.81	24.81 (08.11.17)	-	-	1510.51	<b>970.98</b> <b>(64.28%)</b>	Persuasion to expedite the CUL payment to APs is going on.
<b>Sub-Total =</b>			129.77	129.77	<b>119.91</b>	<b>116.57</b>	<b>116.57</b>	<b>09.86</b>	<b>3.34</b>	<b>8421.84</b>	<b>5304.83</b> <b>(62.05%)</b>	

### 3.1.11 Land Acquisition for Package-2

The land acquisition proposal for six polders under Package -2 has been submitted to concern DC (Pirojpur, Jhalokhati, Barguna and Patuakhali) for acquisition. In the meantime, 139.18 ha land has approved by MoL for polder 39/2C, 40/2, 41/1, 47/2 & 48. BWDB has been placed fund against CUL to DC, Barguna for Polder-40/2 (2 nos. of L.A Cases) and Polder-41/1 (6 nos. L.A Cases). For Polder- 43/2C, issuance of notices U/S-4 for two Mouza has completed and waiting for issuance of notices U/S-4 for nine Mouza. For Polder-39/2, signature in final estimate by DC office-Pirojpur (Pirojpur Portion) is waiting, PWD has already forwarded the estimate to DC office Jhalokathi and field work is ongoing for estimate at Jhalokathi portion by DoF Jhalokathi. The status of land acquisition for Package-2 is furnished in the following Table 3-13.

Table 3-13: Status of land acquisition for Package-2

SL No	Polder no.	District	Program for L.A. (ha)	Proposal submitted to DC (ha)	Approved (ha)		Possession received(ha)	Status of handover from DC to BWDB (ha)		Fund placed BDT in Lac	Payment of CUL by DC in BDT Lac	Remarks
					DLAC	MoL		DC	BWDB			
1	2	3	4	5	6	7	8	9	10	11	12	13
1	39/2C	Pirojpur&Jhalokhati	116.09	116.09	116.09	115.95	-	116.09	--	46.16	--	Approved by MoL (06.12.2017). Notice u/s- 6 served & U/S-7 is Under process. Final estimate is ongoing.
2	40/2	Barguna	12.45	12.45	12.45	11.67	--	12.45	--	159.58	--	Approved by MoL (13.03.2018) remain 0.78 ha pending for court Case. Issuance of notices U/S-7 is served for 2 mouza. Estimate placed to PD office by DC
3	41/1	Barguna	8.35	8.35	8.35	8.35	--	8.35	--	432.77	30.10	Approved by MoL (13.03.2018), Payment is ongoing for 6 mouza.
4	43/2C	Patuakhali	14.66	14.66	14.66	--	--	14.66	-	--	--	DLAC (14.03.2018& 10.09.18). Two Mouza completed of issuance of notices U/S-4 and 9 Mouza waiting for issuance of notices U/S-4.
5	47/2	Patuakhali	2.31	2.31	2.31	2.31	--	2.31	-	--	--	Approved by MoL (05/04/2018). Notice U/S-6 is completed and Preparation of estimate is under process.
6	48	Patuakhali	0.90	0.90	0.90	0.90	--	0.90	-	--	--	Approved by MoL (9/7/18). Notice U/S-6 is completed and Preparation of estimate is under process
<b>Total=</b>			<b>154.76</b>	<b>154.76</b>	<b>154.76</b>	<b>139.18</b>	<b>--</b>	<b>154.76</b>		638.51	<b>30.10</b>	

### 3.1.12 Updating of RAP for Package-2

### 3.1.13 Preparatory Activities

RAP for Package-2 has been concurred by the World Bank and is being updated based on final Land Acquisition Plan (LAP). The IoL has been updated based on final Land Acquisition Plans. A total of **6693 entities** have been identified of whom **1777** entities are titled and **4757** are non-titled on Government land (squatters) which may fluctuate, 195 unit are identified as community properties and 59 as other institutions will be affected. A total of 864 tenants have been identified among them 801 are commercial and 63 are residential HHs. Moreover, 386 wage labours have also been identified as affected in commercial premises. It is to be noted that the number of EPs has been deducted by field verification jointly by the DDCS & PMS Consultant along with LAP/RAP team. The re-updated Resettlement Action Plan (RAP)-2 was submitted to World Bank in December 2018. The Polder wise number of Entitled persons is shown Table 3-14 below:

Table 3-14: Polder-wise numbers of Entitled Persons

Polder	Total HHs Surveyed	Land under private ownership	No. of Squatters	Tenants (GoB land)			Wage labours (GoB land)
				Commercial	Residential	Total	
39/2C	1,540	1489	53	31	6	37	28
40/2	1,910	200	1748	391	17	408	100
41/1	924	20	821	58	4	62	6
43/2	646	47	557	117	9	126	17
47/2	181	16	161	8	0	8	1
48	1,492	5	1417	196	27	223	234
<b>Total=</b>	<b>6,693</b>	<b>1777</b>	<b>4757</b>	<b>801</b>	<b>63</b>	<b>864</b>	<b>386</b>

Source: Updated IoL (June 2016 – December 2018)

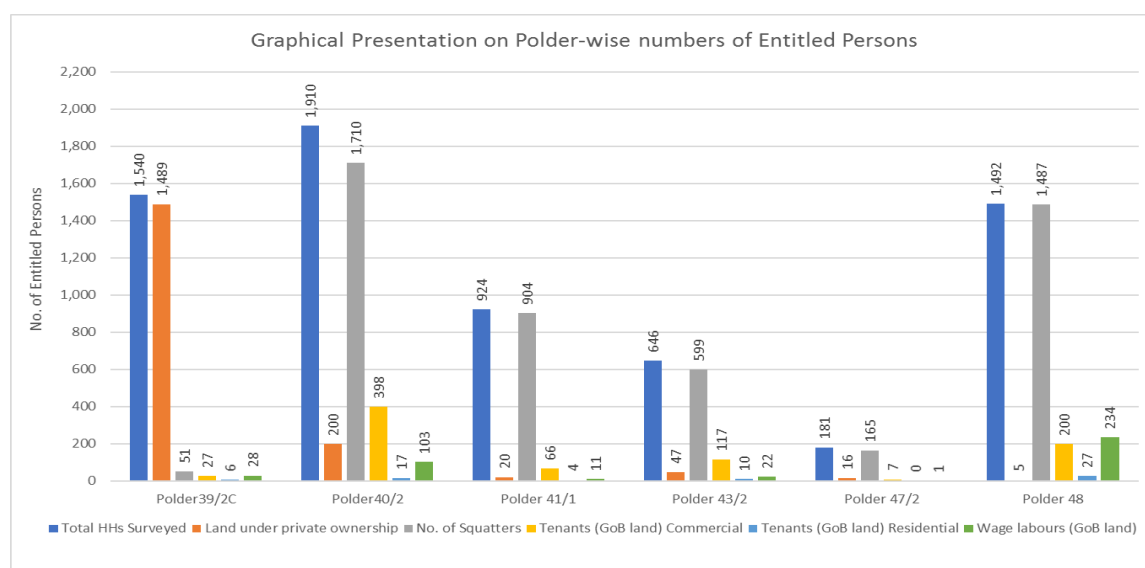


Figure 3-20: Graphical Presentation on Polder-wise numbers of Entitled Persons



### 3.1.14 Implementation RAP for Package-2

Necessary papers and documents such as Bank Account deposit slip, photocopy of national ID cards etc. have been collected from the Non-Titled EPs. ID Cards are being prepared for non-tiled EPs (squatters, tenants, wage laborers). The tenants and wage labours are not included in the current EP list. The Polder-wise status of ID cards is shown in Table 3-15 below.

Table 3-15: Status of ID card preparation for Implementation in Package-2

Polder Nos.	Number of Non-Titled EPs.	Number of Photograph taken of the EPs.	Number of Accounts opened with Bank	Number of National ID cards procured	Number of UP certificate collection	Number of EP ID Cards prepared
1	2	3	4	5	6	7
39/2C	53	50	50	50	50	50
40/2	1748	1,666	1,666	1,666	1,666	1,666
41/1	821	802	802	802	802	802
43/2C	557	545	545	545	545	545
47/2	161	156	156	156	156	156
48	1417	1,374	1,374	1,374	1,374	1,374
<b>Total=</b>	<b>4757</b>	<b>4,596</b>	<b>4,596</b>	<b>4,596</b>	<b>4,596</b>	<b>4,596</b>

Source: MIS and field-level information

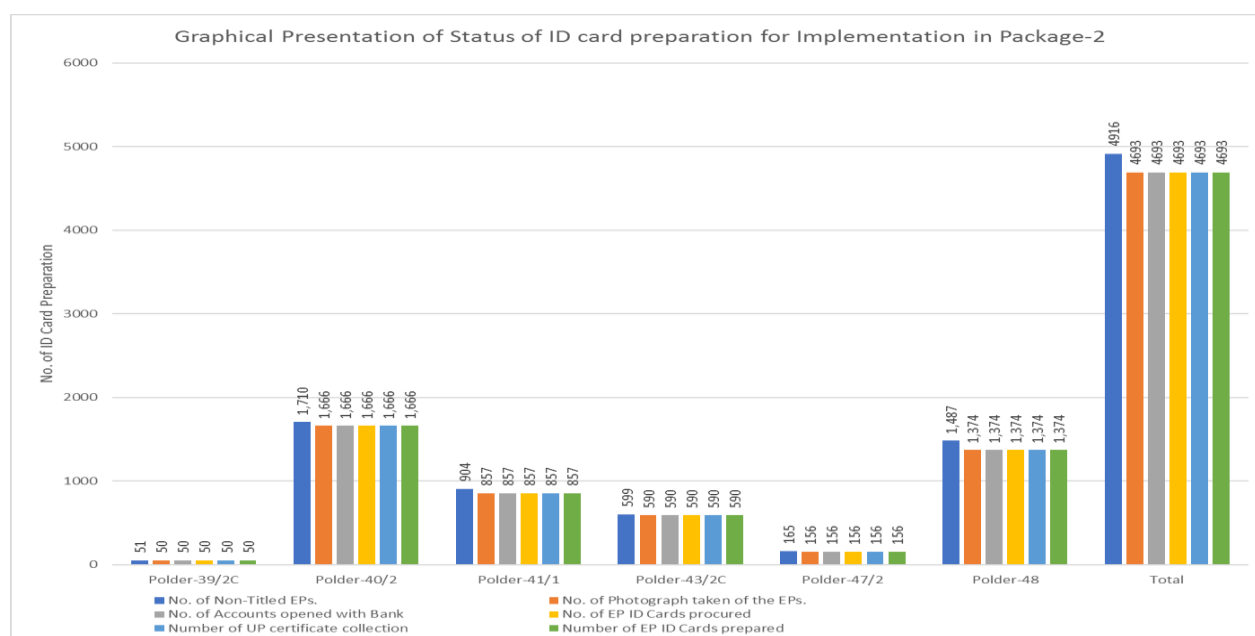


Figure 3-21: Status of ID Card Preparation for Implementation in Package-2

A total list of 2701 EP ID Cards have approved by the Project Director and the approved card lists includes 1327 nos. of Polder-48, 157 nos. of Polder-47/2, 503 nos. of Polder-43/2C, 218 nos. of Polder-41/1 and 496 nos. of Polder-40/2 which all has sent to the respective XEN's for issuance. Thereafter a total of 1909 EP ID cards issued by the concerned XEN which includes 890 nos. of Polder-48, 157 nos. of Polder-47/2, 296 nos. of Polder-43/2C, 181 nos. of Polder-41/1 and 385 nos. of Polder-40/2. Polder wise EP ID Cards issuance progress of Package-2 under CEIP-1 has been shown in the following Table 3-16:

Table 3-16: Status of up to date progress of Polder wise EP ID Cards preparation of Package-2

Polder No.	Number of EP Cards submitted to DDCS & PMS Consultants	Number of EP Cards verified by DDCS Consultant	Number of Cards approved by PD	List of EP ID Card approved date by PD and sent to XEN for issuance	Date of EP ID Card Submission to XEN for signature by RAP/LAP Team	Number of EP ID Cards Submitted to XEN for issuance	Number of EP ID Cards issued by XEN
0	1	2	3	4	5	6	7
39/2C	-	-					
40/2	496	496	496	16/7/17, 28/01/18	20/07/17, 06/03/18	496	385
41/1	218	218	218	16/7/17 22/10/17 20/08/18	20/07/17 07/12/17 13/09/18	218	181
43/2C	503	503	503	28/01/18 20/08/18	07/03/18 04/09/18	503	296
47/2	157	157	157	16/7/17, 28/01/18 20/08/18	06/08/17 07/03/18 04/08/18	157	157
48	1327	1327	1327	26/7/17 27/7/17 13/8/17 28/01/18 20/8/18	24/09/17  07/03/18 27/08/18	1327	890
<b>Total=</b>	<b>2701</b>	<b>2701</b>	<b>2701</b>			<b>2701</b>	<b>1909</b>

### 3.1.15 Payment & Resettlement Benefits for Package-2

A total of **1694** EPs have been forwarded for payment of compensation/Resettlement benefits under first indent according to the policy of Resettlement Action Plan (RAP) and **1687** EPs have been paid under first indent. The detail of the issue is shown in Table 3-17 below:

Table 3-17: Payment of Resettlement Benefit in package-2

Sl. No	Polder nos.	Status of First Indent forwarded for payment		Status of first indent payment	
		Nos. of EPs forwarded for payment	Total amount (BDT)	Nos. of EPs Paid	Amount Paid (BDT)
1	39/2C	-	-	-	-
2	40/2	387	<b>3,70,10,767/-</b>	384	36,897,026 /-
3	41/1	181	<b>1,93,78,736/-</b>	179	19,175,836 /-
4	43/2C	296	<b>3,12,41,086/-</b>	295	31,236,086/-
5	47/2	157	<b>1,50,50,308/-</b>	156	15,003,223 /-
6	48	673	<b>7,31,65,637/-</b>	673	73,165,637 /-
<b>Total =</b>		<b>1,694</b>	<b>17,58,46,534/-</b>	<b>1,687</b>	<b>175,477,808/-</b>

During the month December 2018, the 2<sup>nd</sup> indent of compensation payment under package-2 to 480 nos. of EPs (332 nos. in Polder 40/2 and 148 nos. of Polder 41/1) was prepared by LAP/RAP Team and submitted to the Project Director, CEIP-1 for his review and approval.

Another indent as 2<sup>nd</sup> indent (part-2) under package-2 to 277 nos. of non-title EPs (148 nos. in Polder 43/2C, 03 nos. in Polder 47/2 and 126 nos. in Polder 48) was also prepared by LAP/RAP Team and submitted to the Project director for his review and approval. Thereafter PD has referred all the indents to the Executive Engineers of concerned O&M Division for their review and checking.

### 3.1.16 Relocation Status of Package-2 after compensation payment of First Indent

Following the payment of compensation against the 1<sup>st</sup> indent the affected people started relocating their structures by their own choice. It was disseminated to the people that if the affected people show their willingness for group relocation, the project will provide some support through civic amenities like construct entrance way, sanitary latrines and tube well etc. BWDB concern and DDCCS&PMS Consultants have been encouraging the AP for group relocation so that there will be little chance to come back on the embankment. But in most cases, the affected people have been showing different opinions for individual relocation instead of group relocation. **The progress has shown that a total 1241 has relocated till December 2018 where most of relocation reported in Polder 48 which is 673 and 387 EPs have relocated in Polder 40/2.** The status of relocation has given below after the first indent payment made:

Table 3-18: Status of relocation in Package 2

Status of Relocation	Number of squatters relocated by Polders						
	Polder 40/2	Polder 41/1	Polder 43/2C	Polder 47/2	Polder 48	Total	%
Relocated on own land	110	65	169	85	342	771	45.51
Relocated on purchased land	0	28	5	5	70	108	6.38
Relocated on relative & other's land	42	28	67	3	25	165	9.74
Relocated Temporarily at nearby area (Govt. Land)	20	44	50	42	165	321	18.95
Not yet relocated	215	16	5	22	71	329	19.42
Market Relocation	Not yet						
Group Relocation	Not yet						
<b>Total =</b>	<b>387</b>	<b>181</b>	<b>296</b>	<b>157</b>	<b>673</b>	<b>1694</b>	<b>100</b>

### 3.1.17 Focus Group Discussion for Package-2

Focus Groups (FG) formation was targeted based on the number of HHs in the respective Polders. According to the plan 227 numbers of focus group were formed in 6 Polders under Package-2. A total of 994 focus group meetings have been held with resolution. Some of the groups have been met twice or more. The table here below shows the status of formation and number of discussions or meetings held.

Table 3-19: Status on FGDs as of December 2018

Polder No.	FGD Target	FGD Formation	FGD Meeting	During December 2018	Total Achievement
1	2	3	4	5	4+5=6
39/2C	32	32	74	0	74
40/2	57	57	222	0	222
41/1	38	38	183	0	183
43/2C	31	31	181	9	190
47/2	09	09	64	5	69
48	60	60	256	0	256
<b>Total =</b>	<b>227</b>	<b>227</b>	<b>980</b>	<b>14</b>	<b>994</b>

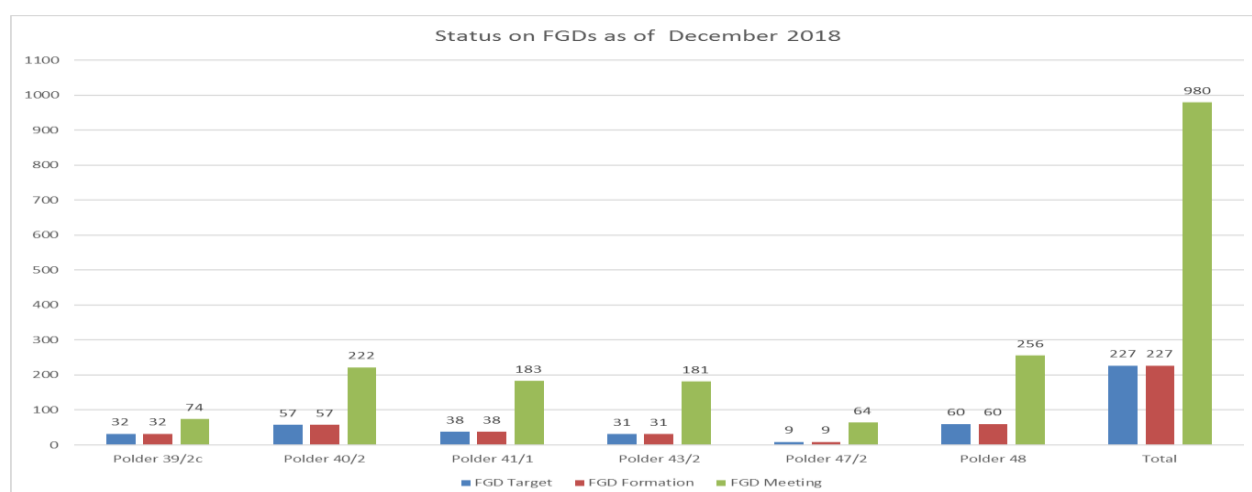


Figure 3-22: Status on FGDs as of December 2018

### 3.1.18 Distribution of Information Brochure and GRM Leaflet of Package-2

Information booklet in Bangla is a useful tool to disseminate information among the PAPs to their convenience. All necessary information about land acquisition, necessary documents relevant to land ownership, compensation package, resettlement policy, entitlements and eligibility of entitlements, grievance redress mechanism, etc. have been explained in the information booklet. Distribution of GRM leaflets has since been started among all EPs and the concerned stakeholders.

### 3.1.19 Database Preparation of Package-2

Computerized datasheet on household information and on the number of structures by category has been sent to Package-2 Polders for further checking and verification before generation of tables for updating of the RAP. Database is being updated based on the field level verification. PAVC will recommend unit rates of affected structures based on the recommended rates on individual entitlement of each squatter which will be inserted in database.

### 3.1.20 Formation of PAVC & GRC Committee Package-2

A Social Management and Resettlement Policy Framework (SMRPF) for the project and a Resettlement Action Plan (RAP) for Package-2 has been adopted. In this regard, a Property Assessment & Valuation Committee (PAVC) and Grievance Redress Committee (GRC) have been formed for the Polder-39/2C (Pirojpur+Jhalokati), 40/2 (Borguna), 41/1 (Borguna), 43/2C (Patuakhali), 47/2 (Patuakhali) and 48 (Patuakhali).

PAVC rate for polder 40/2, 41/1, 43/2C, 47/2 & 48 have been approved by the PD. But rates yet to be fixed for 39/2C and PAVC meeting for Polder- 39/2C will be held soon. The Table 3-20 below stated the current progress of PAVC activities of Package-2.

Table 3-20: Status of up to date progress of PAVC activities of Package-2

<b>Polder No.</b>	<b>Formation of PAVC Committee by PD (Date)</b>	<b>PAVC meeting date for fixation of rate</b>	<b>Number of Meeting</b>	<b>Status of Rate Fixation</b>	<b>Approval by BWDB</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
39/2C	5/10/17, 5/10/17 (Pirojpur & Jhalokathi)	0	0	0	0
40/2	27/3/17	29/11/17, 24/01/18,26/04/18	3	Rate fixed	Approved
41/1	27/3/17	29/11/17, 24/01/18,26/24/18	3	Rate fixed	Approved
43/2C	11/6/17	18/02/18,7/5/18	2	Rate fixed	Approved
47/2	17/5/17	20/9/17, 3/12/17	2	Rate fixed	Approved
48	17/5/17	20/9/17, 3/12/17	2	Rate fixed	Approved

### 3.1.21 Video Filming of Affected Properties for GRC and PRAC

Video filming of the affected properties within Right of Way (RoW) along the alignment of the Polders-39/2C, 40/2, 41/1, 43/2C, 47/2 and 48 of Package-2 has already been completed. The video filming was captured just on completion of the IoL survey and latest field update. Dates of capturing video filming are visible in the DVD that will help the GRC to make decision if there is requirement/necessity of further investigation during GRC, PRAC and PAVC process. These will be visualized by the PAVC and GRC to review the lost property as well as to prevent fraudulent claims in future by the affected peoples.

### 3.1.22 Devised ID number of the Non-Titled EPs

A Polder-wise ID numbering formula for all non-titled affected persons has been devised by Computerized Management Information System (CMIS). The procedure is that all affected persons (APs) would be photographed with given ID number and the photo would be pasted on their ID cards. ID number for 4,916 entities (squatters, tenants, wage labours etc.) have been devised.

### 3.1.23 Preparation of EIA

The EIA of 4 Polders under Package-1 were completed during the study period and duly been approved by the competent authorities including World Bank. The said EIA reports were updated based on final Land Acquisition Plan (LAP) which were also approved by the competent authorities including World Bank. The said EIA reports are being under implementation in Package-1.

## 3.2 Task B: Prepare Design, Bid Documents, EIAs, RAP, etc. for Package- 2 Polders

### 3.2.1 Data processing & reviewing the shop drawings

Immediately after the completion of each day's survey work, the raw data is submitted to the DRE. Then the raw data is processed to check the quality by using the field log sheet. The shop drawings of embankment and khals are also verified with the received raw data/field log sheet and reviewing the proposed alignment before giving final approval.

### 3.2.2 Design status

The status of the designs is presented below.

Table 3-21: Status of Design for Package-2

SI No.	Polder	Embankment (Km)			Drainage Channel (Km)			Drainage Sluice (No.)			Flushing Sluice (No.)			River Bank Protection Works (Km)		
		Target	Achievement		Target	Achievement		Target	Achievement		Target	Achievement		Target	Achievement	
			Design Prepared	Design Approved		Design Prepared	Design Approved		Design Prepared	Design Approved		Design Prepared	Design Approved		Design Prepared	Design Approved
1	39/2C	59.25	59.25	59.25	54.23	54.23	54.23	13	13	13	20	20	20	3.5	3.5	3.5
2	40/2	34.40	34.40	34.40	32.56	32.56	32.56	9	9	9	11	11	11	-	-	-
3	41/1	33.81	33.81	33.81	30.16	30.16	30.16	10	10	10	16	16	16	0.875	0.875	0.875
4	43/2C	25.70	25.70	25.70	28.25	28.25	28.25	8	8	8	15	15	15	0.500	0.500	0.500
5	47/2	17.55	17.55	17.55	9.70	9.70	9.70	4	4	4	5	5	5	0.520	0.520	0.520
6	48	38.00	38.00	38.00	33.10	33.10	33.10	6	6	6	3	3	3	-	-	-
<b>Total =</b>		<b>208.71</b>	<b>208.71</b>	<b>208.71</b>	<b>188.00</b>	<b>188.00</b>	<b>188.00</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>70</b>	<b>70</b>	<b>70</b>	<b>5.395</b>	<b>5.395</b>	<b>5.395</b>

Embankment Slope Protection Works (Km)			Flood Wall (Km)			Paved Road (Km)			Closure (No.)			Gatest & Hoists					
Target	Achievement		Target	Achievement		Target	Achievement		Target	Achievement		Drainage Sluice (No.)		Flushing Sluice (No.)			
	Design Prepared	Design Approved		Design Prepared ***	Design Approved		Design Prepared	Design Approved		Design Prepared *	Design Approved	Target	Achievement	Target	Achievement		
4	4	4	1.95	-	-	11.04	11.04	11.04	8	8	-	1	1	1	1	1	1
1.137	1.137	1.137	8.30	8.30	-	5.40	5.40	5.40	-	-	-	1	1	1	1	1	1
-	-	-	7.15	-	-	21.35	21.35	21.35	-	-	-	1	1	1	1	1	1
0.261	0.261	0.261	-	-	-	5.50	5.50	5.50	-	-	-	1	1	1	1	1	1
-	-	-	-	-	-	0.00	0.00	0.00	-	-	-	1	1	1	1	1	1
3.989	3.989	3.989	-	-	-	7.00	7.00	7.00	-	-	-	1	1	1	1	1	1
9.387	9.387	9.387	17.40	8.30	0	50.29	50.29	50.29	8	8	0	6	6	6	6	6	6

#### Notes:

- (\*) The contractor shall prepare design and final drawings for each closure and submit to the Engineer for approval.
- (\*\*) Typical Gate Design prepared for these polders
- (\*\*\*) The design of Flood Wall will be decided after field verification by concerned Design Office & Consultants.

### 3.3 Task B: Prepare Design, Bid Documents, EIAs, RAP, etc. for Package-3 Polders

#### 3.3.1 Design

The Design Parameters were obtained from IWM in the month of March 2018 which were concurred by the Superintending Engineer, Design Circle-5 in the month of September 2018. By this time, the Design of Embankments of 7 Polders and Drainage Cum Flushing Sluice have been prepared and submitted to the Design Circle-5 BWDB, Dhaka for approval. The remaining designs are under preparation.

Table 3-22: Status of Design for Package-3

Sl No.	Polder	Embankment (Km)			Drainage Channel (Km)			Drainage Sluice (No.)			Flushing Sluice (No.)		
		Target	Achievement		Target	Achievement		Target	Achievement		Target	Achievement	
			Design Prepared	Design Approved		Design Prepared	Design Approved		Design Prepared	Design Approved		Design Prepared	Design Approved
1	14/1	31.25	31.25	0	13.23	0	0	5	0	0	4	0	0
2	15	30.50	30.50	0	15.44	0	0	4	0	0	4	0	0
3	16	45.00	45.00	0	47.90	0	0	15	0	0	10	0	0
4	17/1	38.50	38.50	0	35.80	0	0	10	9	0	0	0	0
5	17/2	11.00	11.00	0	12.40	0	0	3	3	0	0	0	0
6	23	37.00	37.00	0	31.50	0	0	12	12	0	12	0	0
7	34/3	17.00	17.00	0	11.10	0	0	3	3	0	6	0	0
<b>Total =</b>		<b>210.25</b>	<b>210.25</b>	<b>0</b>	<b>167.37</b>	<b>0</b>	<b>0</b>	<b>52</b>	<b>27</b>	<b>0</b>	<b>36</b>	<b>0</b>	<b>0</b>

River Bank Protection Works (Km)			Embankment Slope Protection Works (Km)			Gatest & Hoists					
Target	Achievement		Target	Achievement		Drainage Sluice (No.)			Flushing Sluice (No.)		
	Design Prepared	Design Approved		Design Prepared	Design Approved	Target	Achievement		Target	Achievement	
	Design Prepared	Design Approved		Design Prepared	Design Approved		Design Prepared	Design Approved		Design Prepared	Design Approved
1.00	0	0	6.86	0	0	1	0	0	1	0	0
0.10	0	0	4.44	0	0	1	0	0	1	0	0
0.30	0	0	1.00	0	0	1	0	0	1	0	0
0.00	0	0	0.00	0	0	1	0	0	0	0	0
0.25	0	0	0.00	0	0	1	0	0	0	0	0
0.00	0	0	3.00	0	0	1	0	0	1	0	0
0.00	0	0	0.00	0	0	1	0	0	1	0	0
1.65	0.00	0.00	15.30	0.00	0.00	7.00	0.00	0.00	5.00	0.00	0.00

#### 3.3.2 Bidding Document

Some sections of the Bidding Documents have been advanced and waiting for the preparation of BOQ yet the design and drawing of some components are to be completed.

#### 3.3.3 RAP Preparation for Package-3

After the accomplishment of the map of alignment fixing by the concern of BWDB and Consultants, the LAP/RAP team has completed the Household (HH) numbering and IoL survey have done in all seven Polders (Polder-14/1, 15, 16, 17/1, 17/2, 23 and 34/3) under Package-3, CEIP-1. A total of 20 community consultation meetings were conducted in 15 different locations in all Polders of Package-3. Resettlement Action Plan (RAP) is ongoing and hopefully the RAP-3 will be submitted soon.

### 3.3.4 LAP Preparation for Package-3

The LAP/RAP team has been working for finalization of Land Acquisition Plan and Resettlement Action Plan in Package-3 under CEIP-1. The LAP/RAP team has collected records and information on previously acquired land for seven Polders (Polder-14/1, 15, 16, 17/1, 17/2, 23 and 34/3) from concerned O&M Divisions of BWDB and the concerned DC offices (Khulna, Shatkira and Bagerhat). Mouza Maps have also been collected from the office of Director, Land Records, Tejgaon, Dhaka and the DC office Khulna, Shatkira and Bagerhat. Almost all Mouza Maps of seven Polders have since been procured. In the meantime, LAP/RAP team has submitted the draft LAP for all polders to XEN, CEIP-1, Khulna through DDCCS & PMS Consultant and PD office for checking & verifying as per Terms of Reference (ToR) of Acquisition & Requisition of Immovable Property Act 2017. The XEN, BWDB, CEIP-1 Khulna issued a letter for some queries on LAPs and LAP/RAP team is working on the requirements. The progress of package-3 is shown below:

Table 3-23: Update Status of Package-3

Polder no	Program for LA (ha)	Progress of LAP preparation				Resettlement Activity		Preparation of RAP
		Collection of Khatian	Collection of Mauza map	Submission of LAP as per new Act/17	Drawing existing alignment map on mouza map	Nos. of HH Surveyed	Stakeholder Consultation Meeting	
14/1	27.82	Done	Done	Submitted	Done	718	Done	RAP-3 preparation under process.
15	28.90	Done	Done	Submitted	Done	1298	Done	
16	14.50	Done	Done	Submitted	Done	565	Done	
17/1	2.06	Done	Done	Submitted	Done	708	Done	
17/2	2.24	Done	Done	Submitted	Done	195	Done	
23	6.49	Done	Done	Submitted	Done	1086	Done	
34/3	3.91	Done	Done	Submitted	Done	215	Done	
<b>Total=</b>	<b>85.92</b>	-	-	-	-	<b>4,785</b>	-	

## 3.4 Task C: Supervise Construction & Administer Contract of Package-1

### 3.4.1 Introduction

The Progress report covers the events up to 31 December 2018. The contract Package-1 was signed on 01-10-2015 for the execution of Rehabilitation/ Reconstruction and Upgrading of Polder-32; Polder-33; Polder35/1 and 35/3 under Package-1. The date of formal commencement of work was on 26<sup>th</sup> January 2016.

The contractor submitted the administrative work and has affected necessary site visit to establish the dossier for 5 % advance Payment and take possession for sites. Contractor has received the full advance payment and first instalment has been spent to purchase machineries and equipment in China; Chinese engineers and supporting personnel have mobilized and the same is true for the recruitment of local labour; facilities and buildings (some completed) are under construction now. Total expenditure incurred up to IPC-15 is BDT 3,413.58 million. The value of the IPC-15 is BDT 256.33 million. Construction of 25 nos. drainage sluices out of 39 nos. has already been completed, 14 nos. drainage sluices are going on. Out of 41 nos. Flashing Sluices 18 nos. are completed, 10 nos. are going in progress and 13 nos. are not yet started. Embankment works of different Polders are (completed 44.95 km and partially completed 101.97 km) also going on. Construction of C.C blocks are going on for the bank/slope protection work.



### 3.4.2 Staffing

In Table 3-24 below man power deployment for Contract Package-1 is listed and sample check has been done by the Consultants.

Table 3-24: List of Polder-wise Manpower Deployed to Site of Package-1

SN	Description	Sub-Total		Khulna		Polder 32		Polder 33		Polder 35/1		Polder 35/3	
		Ex.	Lo.	Ex.	Lo.	Ex.	Lo.	Ex.	Lo.	Ex.	Lo.	Ex.	Lo.
1	Management	10	0	1	0	3	0	1	0	4	0	1	0
2	Technical Staff	62	64	16	7	13	14	15	12	13	21	5	10
3	Operator/Driver	11	237	0	2	0	49	2	44	7	76	2	66
4	Skilled Worker	27	173	0	4	5	25	6	76	12	38	4	30
5	Common Labor	4	538	0	4	0	88	4	130	0	231	0	85
6	Logistic	10	21	1	1	4	10	2	4	2	2	1	4
<b>Total</b>		<b>124</b>	<b>1033</b>	<b>18</b>	<b>18</b>	<b>25</b>	<b>186</b>	<b>30</b>	<b>266</b>	<b>38</b>	<b>368</b>	<b>13</b>	<b>195</b>

Source by Contractor

### 3.4.3 Equipment Mobilization

The mobilisation of equipment for Package-1 is shown in the table below.

Table 3-25: List of Equipment

Name of Polder	Equipment required													Equipment already deployed										
	B.dozer/ S.F roller/ Compactor (150HP) (nos.)	Dum Truck and carry Scrapper	Excavator	Concrete Mix Machine	Sand pile driving equipment	Sheet pile driving equipment	CC block manufacturing machine	Batching plant	Positioning ship	Survey Vessel	Barge	Wheel Loader	B.dozer/ S.F roller/ Compactor (150HP) (nos.)	Dum Truck /Carry Scrapper/ Tractor carrier	Excavator	Concrete Mix Machine /Transit mixer	Sand pile driving equipment	Sheet pile driving equipment	CC block manufacturing machine	Batching plant	Positioning ship	Survey Vessel	Barge	Wheel Loader
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Polder-32	6	23	13	6	4	1	2	2	1	1	6	3	1+2+0	15+5+38	9	6	4	1	2	0	1	1	2	3
Polder-33	5	17	11	12	10	2	1	1	1	1	6	2	3+0+0	10+5+36	10	6	1	1	1	1	1	1	2	2
Polder-35/3	5	16	9	7	5	1	1	1	1	1	4	6	6+2+0	12+5+22	11	7	6	1	1	1	1	1	2	6
Polder-35/1	12	48	23	15	9	2	3	3	1	1	8	3	15+0+5	26+3+25	24	14	5	1	2	3	1	1	4	6
<b>Total</b>	<b>28</b>	<b>104</b>	<b>57</b>	<b>40</b>	<b>28</b>	<b>6</b>	<b>7</b>	<b>7</b>	<b>4</b>	<b>4</b>	<b>24</b>	<b>14</b>	<b>25+4+5=34</b>	<b>63+18+12=93</b>	<b>54</b>	<b>30</b>	<b>16</b>	<b>4</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>4</b>	<b>10</b>	<b>17</b>

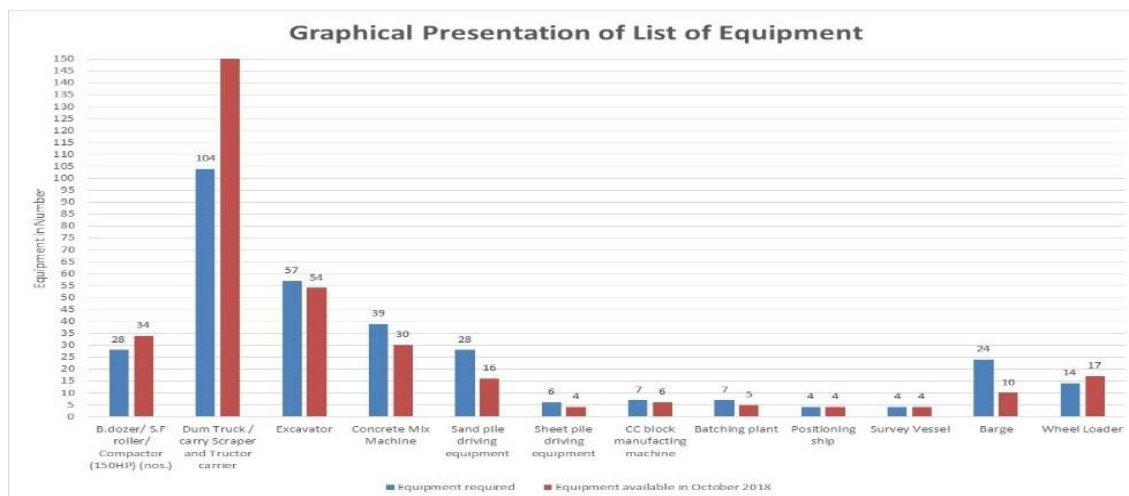


Figure 3-23: Graphical Presentation of List of Equipment Contractor of Package-1

### 3.4.4 Finances of Contractor Package-1

Contract modifications Variation Order No.2 for using CC blocks instead of hard rock has been agreed upon and materialised.

Table 3-26: Monthly Forecast of Payment for Package-W/-01 is furnished below

IPC No.	Month of Submission	Value of IPC	Remark
IPC-15	Nov. 2018	274,583,612.82	IPC No. 15 has been submitted to PMU on 6 December 2018 with the value of BDT: 256,330,133.58.
IPC-16	Jan. 2019	374,242,132.20	
IPC-17	Feb. 2019	259,251,532.92	
IPC-18	Mar. 2019	255,766,969.30	
IPC-19	Apr. 2019	453,144,934.37	
IPC-20	May. 2019	453,144,934.37	
IPC-21	Jun. 2019	585,558,351.72	
<b>Total</b>		<b>2,655,692,467.71</b>	



### 3.4.6 Physical Progress

Table 3-27: Physical Works of Package-1 as on 31 December 2018

Item	Unit	Contract Quantity	Program FY 2018-2019		Prior Cumulative		Current Month		Current Cumulative	
			Full	Part	Completed	Partially Completed	Completed	Partially Completed	Completed	Partially Completed
Embankment Construction/Re-sectioning	km	204.50	110.00	0.00	44.95 (22%)	99.593	0.00	1.407	44.95 (22%)	101.97
Drainage Channel Excavation/Re-excavation	km	175.21	101.00	0.00	29.60 (17%)	0.00	0.00	0.00	29.60 (17%)	0.00
Drainage Sluice Construction	no	39	19.00	0.00	25 (64%)	13	0	14	25 (64%)	14
Drainage Sluice Repair	no	2	2	0.00	0	2	0	2	0	2
Flushing Inlet Construction	no	41	22	0.00	18 (44%)	8	0	10	18 (44%)	10
Flushing Inlet Repair	no	30	30	0.00	0	9	0	12	0	12
Embankment Slope Protection Work	km	21.98	10.00	0.00	3.74 (17%)	-	0.00	-	3.74 (17%)	-
River Bank Protection Work	km	4.45	1.80	0.00	2.85 (64%)	-	0.076	-	2.926 (64%)	-
Closure Dam Construction	no	1	1	0.00	-	1	-	1	-	1

Table 3-28: Detailed information of Construction Status of Drainage Sluices

Drainage Sluices	Preparation cofferdam- excavation- dewatering	Foundation sand piling - Sheetpiles	Structure concreting work	Installation CC block placing - Gate	Weighted % progress	Remarks
1	2	3	4	5	6	7
<b>Polder 32</b>						
DS-1	100%	100%	100%	100%	100%	Sluice in operation.
DS-2	100%	100%	100%	100%	100%	Sluice in operation.
DS-7	100%	100%	100%	100%	100%	
DS-8	100%	100%	100%	100%	100%	
DS-9	100%	100%	100%	100%	100%	
DS-10	100%	100%	25%		44%	Cofferdam not done as per specification and approved shop drawing. Observation well not installed.
DS-11	90%	10%			11%	Cofferdam not done as per specification and approved shop drawing. Observation well not installed.
DS-16	100%	100%	100%	100%	100%	Sluice in operation.
<b>Polder 33</b>						
DS-1	100%	100%	100%	100%	100%	Gate installed.
DS-2	100%	100%	100%	100%	100%	Gate installed.
DS-3	100%	100%	100%	100%	100%	Gate installed.
DS-4	100%	100%	100%	100%	100%	Gate installed.
DS-6	90%				9%	Cofferdam not done as per specification and approved shop drawing.
DS-7	100%	100%	100%	100%	100%	Back filling work is going on. Gate to be installed.
DS-8	100%	100%	100%	100%	100%	Gate installed.
DS-9	100%	100%	100%	100%	100%	Gate installed.
DS-10	30%				3%	Construction of cofferdam started.
DS-11	100%	100%	100%	100%	100%	Gate installed.
DS-12	100%	100%	100%	100%	100%	Gate installed.
DS-13	100%	100%	100%	100%	100%	Gate installed.
<b>Polder 35/1</b>						
DS-1	100%	100%	100%	10%	87%	Work in progress
DS-2	100%	100%	100%	10%	87%	Gate Installed but not commissioned.
DS-4	100%	100%	100%	30%	90%	Gate Installed but not commissioned.
DS-5	100%	100%	100%	100%	100%	Gate Installed but not commissioned.
DS-6	100%	100%	100%	100%	100%	Gate Installed but not commissioned.
DS-7	100%	100%	100%	100%	100%	Gate Installed but not commissioned.
DS-8	100%	100%	100%	100%	100%	Gate Installed but not commissioned.
DS-11	100%	100%	20%		41%	Work in progress.
DS-12	100%	100%	100%	5%	86%	Work in progress.
DS-13	50%	100%			25%	Work in progress.
DS-14	50%	10%			7%	Work in progress.
DS-15	70%	25%			12%	Sand filling is in progress.
DS-16	100%	100%	100%	10%	87%	Work in progress.
DS-17	100%	100%	100%	100%	100%	Gate Installed but not commissioned.
DS-18	40%				4%	Work suspended from November 2016 due to venerable condition at Bagi.
<b>Polder 35/3</b>						
DS-1	100%	100%	100%	100%	100%	Gate not installed.
DS-2	100%	100%	100%	100%	100%	Sluice in operation.
DS-3	100%	100%	100%	100%	100%	Gate not installed.
DS-4	100%	100%	100%	100%	100%	Gate not installed.
<b>Overall progress</b>	92.82%	85.77%	78.08%	65.77%	Total BDT	
Total amount	96,668,711	90,091,894	335,591,305	77,468,045	599,819,955	
Completed amount	89,728,393	77,271,124	262,019,365	50,950,137	479,969,020	

Table 3-29: Detailed Information of Construction Status of Flushing Sluices

Flushing Sluices	Preparation cofferdam- excavation- dewatering	Foundation sand piling - Sheetpiles	Structure concreting work	Installation CC block placing - Gate	Weighted % progress	Remarks
1	2	3	4	5	6	
<b>Polder 32</b>						
FS - 3					0%	Chairman applied for shifting to FS-4.
D -10	30%				3%	Construction of cofferdam started.
<b>Polder 33</b>						
FS -1					0%	Work not yet started.
FS -3					0%	Work not yet started.
FS - 5	80%				8%	Cofferdam not done as per specification and approved shop drawing.
FS -6	80%				8%	Cofferdam not done as per specification and approved shop drawing.
FS - 8	80%				8%	Cofferdam not done as per specification and approved shop drawing.
FS - 9	100%	100%	100%	100%	100%	Gate installed.
FS -10					0%	Work not yet started.
FS -11					0%	Work not yet started.
FS -14					0%	
FS -15					0%	Structure is good condition, may be convert to repair.
FS -17	100%	100%	100%	100%	100%	Gate installed.
FS-19					0%	
<b>Polder 35/1</b>						
FS - 1	100%	100%	100%	100%	100%	Gate installed but not commissioned.
FS - 2	100%	100%	100%	100%	100%	Gate installed but not commissioned.
FS - 4	100%	100%	100%	90%	99%	Gate installed but not commissioned.
FS - 5	100%	100%	100%	100%	100%	Gate installed but not commissioned.
FS - 6					0%	Dropped
FS - 7	100%	100%	100%	100%	100%	Gate installed but not commissioned.
FS - 12	100%	100%	100%	100%	100%	Gate installed but not commissioned.
FS - 13	100%	100%	100%	100%	100%	Gate installed but not commissioned.
FS - 14					0%	Dropped
FS - 15					0%	Dropped
FS - 16	100%	100%	100%	75%	96%	Gate installed but not commissioned.
FS - 17	100%	100%	100%	100%	100%	Gate to be installed
FS - 18	70%	30%			13%	Work is stopped of sand piling, Payment of houses to be need to house owner(Quarters)
FS - 19	70%	45%			16%	Work in Progress, Payment of houses to be need to house owner(Quarters)
FS - 21					0%	The local farmer and UP Member demanded new sluice by their letter dated 10.12.2018. The local farmer and UP Member demanded new sluice by their letter dated 10.12.2018.Land issues for diversion channel at R/S & decision of compenent authority needs to receive for construction of FS-21.
FS - 22	70%	25%			12%	Work in Progress, sand pilling is in progress Payment of houses to be need to house owner (Quarters)
FS - 23					0%	Dropped
<b>Polder 35/3</b>						
FS - 1	80%				8%	Cofferdam and exavation started.
FS - 3	100%	100%	100%	100%	100%	Gate not installed.
FS - 4	100%	100%	100%	100%	100%	Gate not installed.
FS - 5	100%	100%			30%	Cofferdam not done as per specification and approved shop drawing.
FS - 6	100%	100%	100%	100%	100%	Gate installed.
FS - 8	100%	100%	100%	100%	100%	Gate not installed.
FS - 9	100%	100%	100%	100%	100%	Sluice in operation.
FS - 10	100%	100%	100%	100%	100%	Gate not installed.
FS - 13	100%	100%	100%	100%	100%	Gate installed.
FS - 14	90%	50%			19%	Cofferdam not done as per specification and approved shop drawing.
<b>Overall p</b>	62.20%	50.00%	43.90%	43.05%	Total BDT	
Total amo	67,560,986	64,776,251	170,654,324	38,086,066	341,077,627	
Completed	42,019,638	32,388,126	74,921,411	16,395,587	165,724,761	

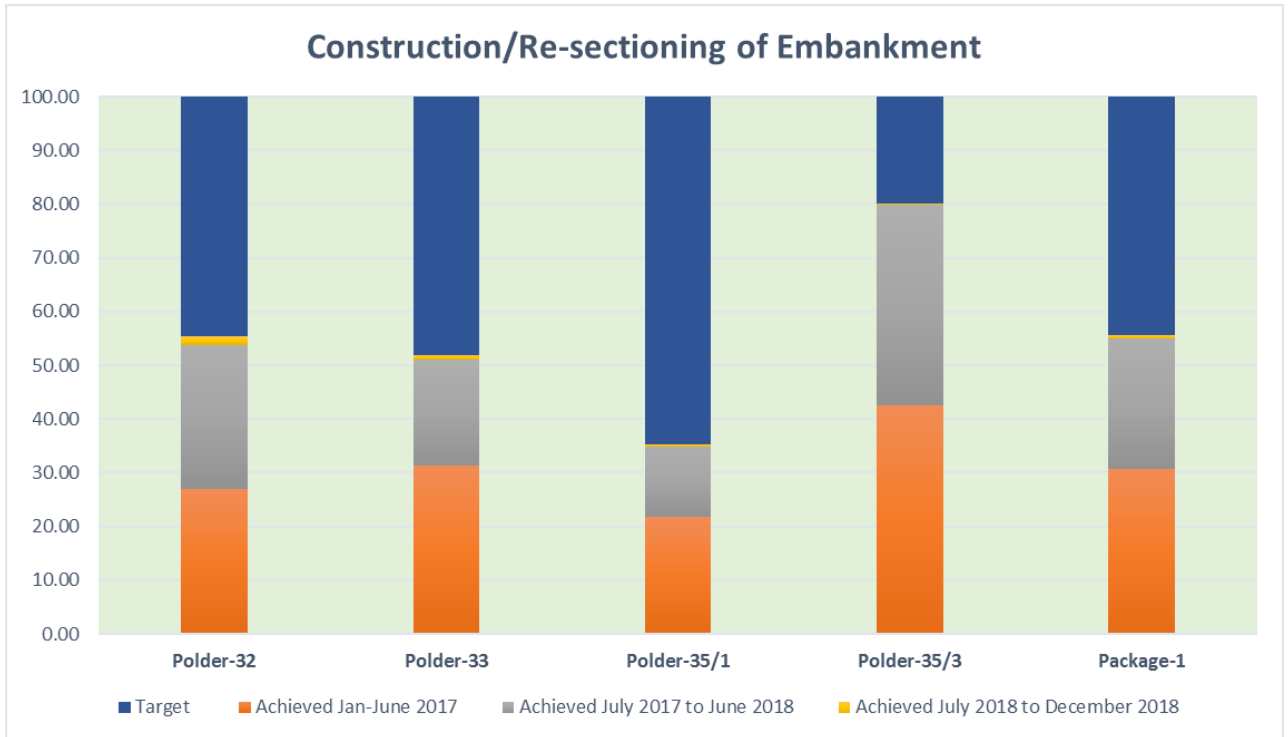


Figure 3-25: Construction/Re-sectioning of Embankment of Package-1

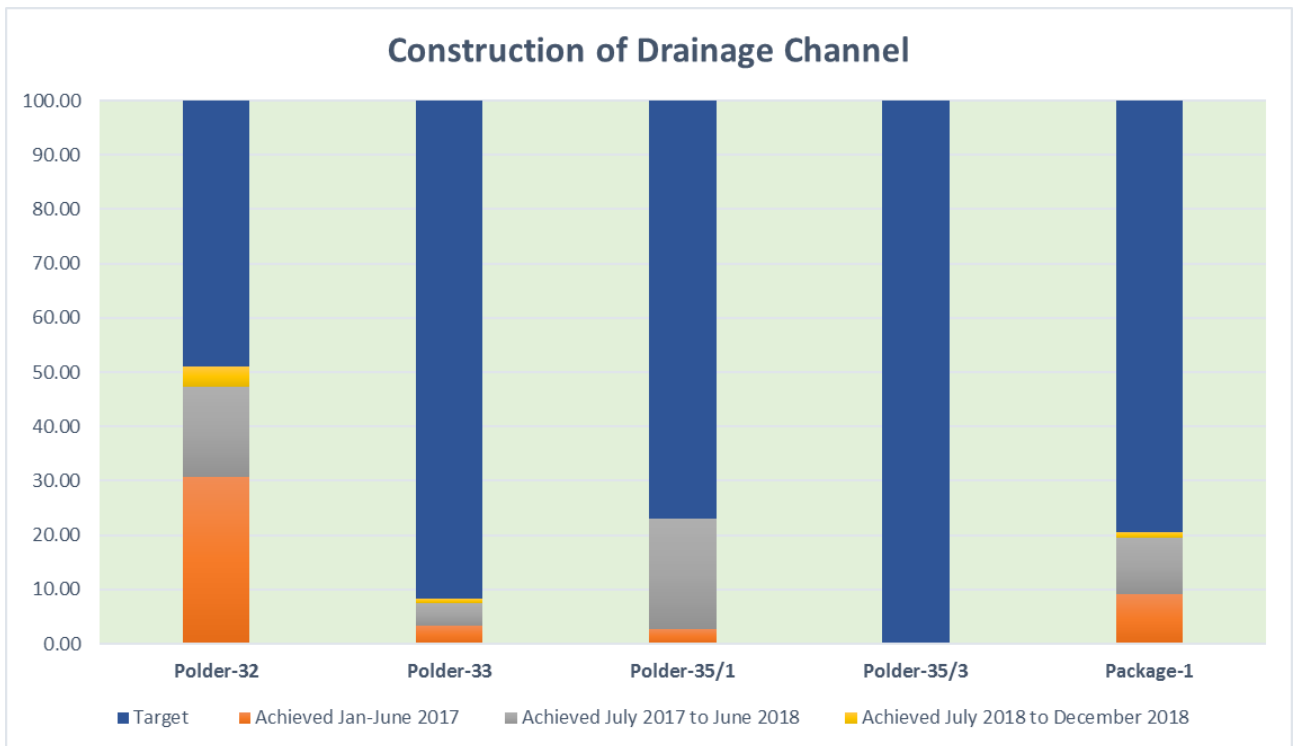


Figure 3-26: Drainage Channel of Package-1

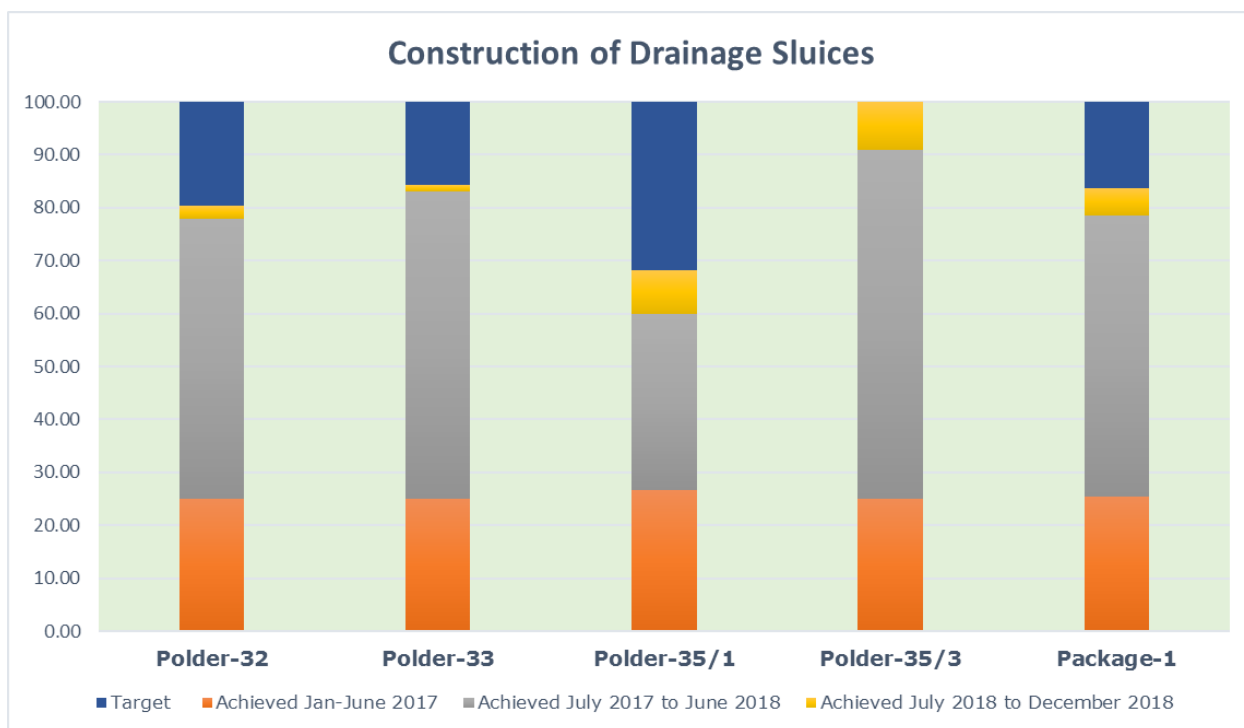


Figure 3-27: Construction of Drainage Sluices of Package-1

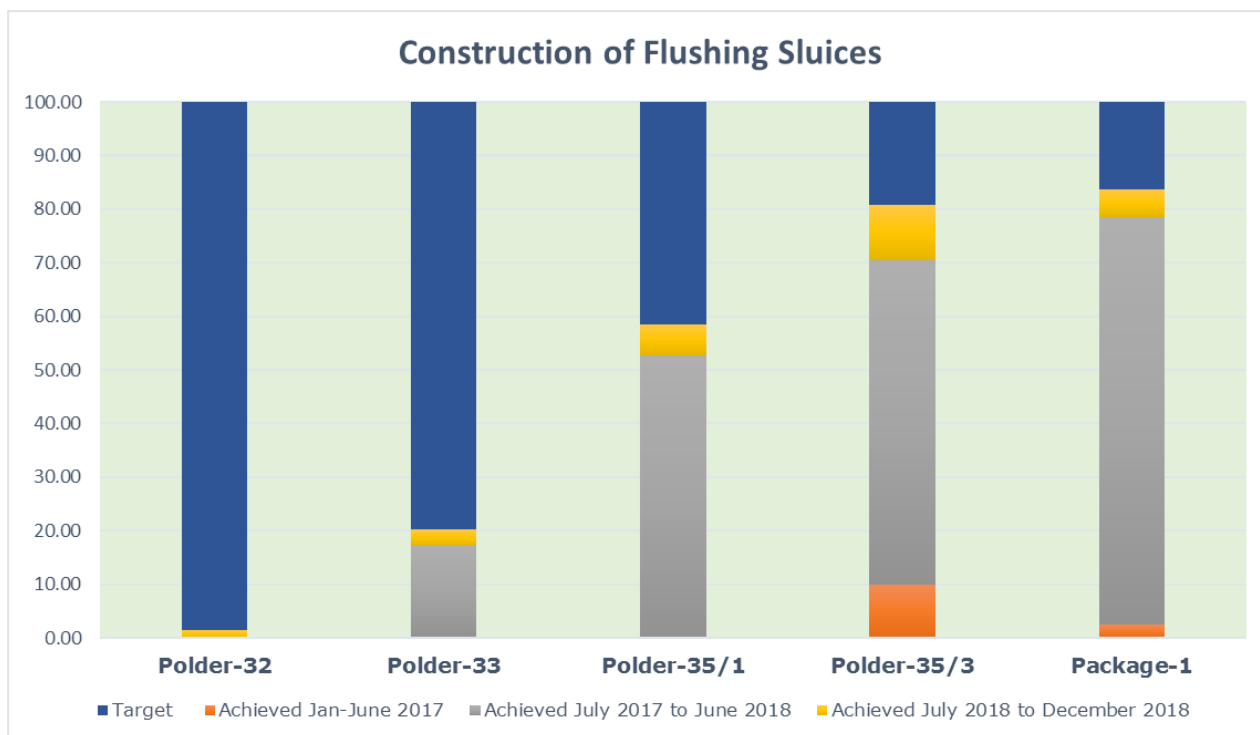


Figure 3-28: Construction of Flushing Sluice of Package-1



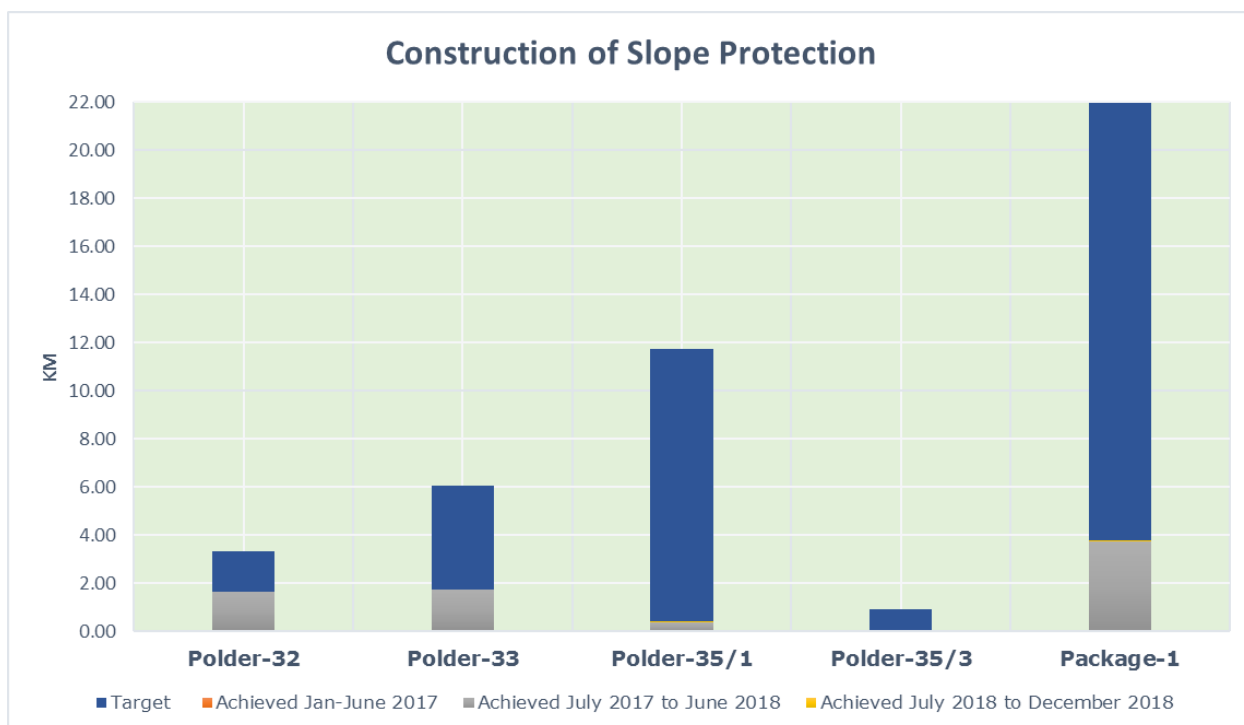


Figure 3-29: Construction of Slope Protection of Package-1

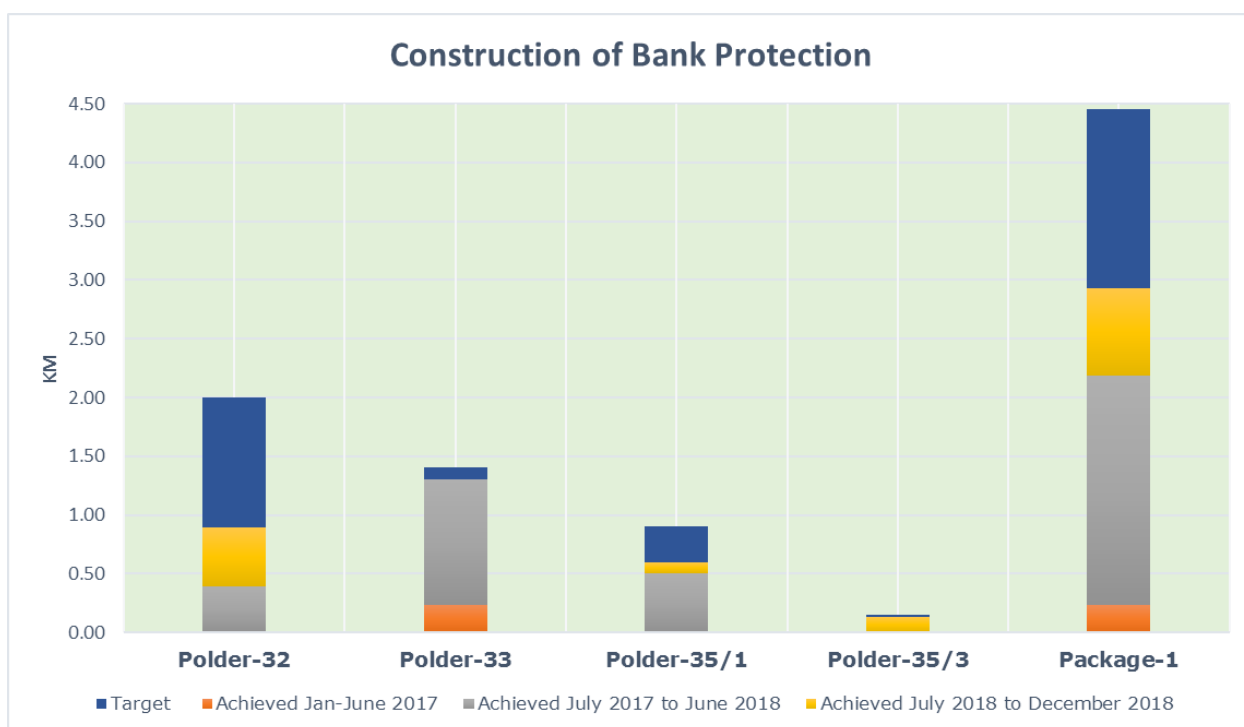


Figure 3-30: Construction of Bank Protection of Package-1

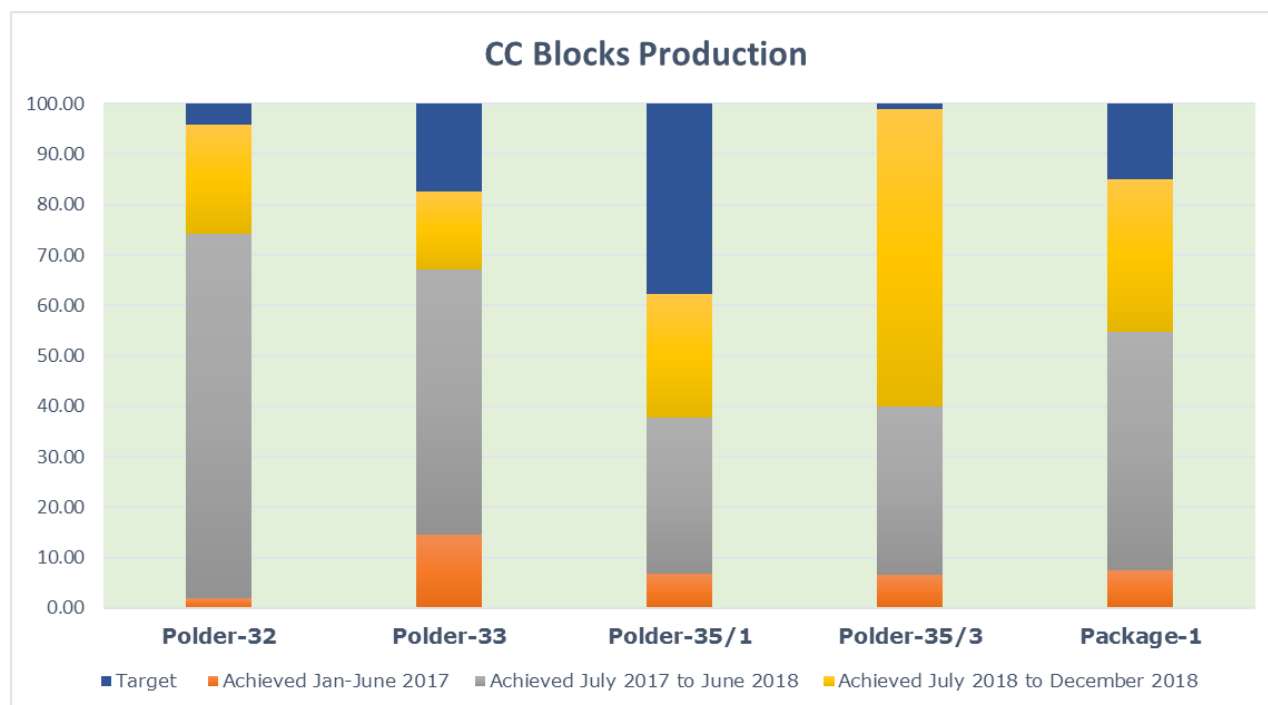


Figure 3-31: CC Blocks Production of Package-1

Table 3-30: Progress as on December 2018

Item	Unit	Contract Quantity	Status 31 December 2018
Construction/Re-sectioning of Embankment	Km	204.50	44.95(F) 101.97 (P)
Excavation/Re-excavation of Drainage Channel	Km	175.21	29.60(F)
Construction of Drainage Sluice	No	39	25 (F) 14 (P)
Repairing of Drainage Sluice	No	2	2 (p)
Construction of Flushing Inlets	No	41	18 (F) 10 (P)
Repairing of Flushing Inlets	No	30	12 (p)
Embankment Slope Protection Works (Km)	Km	21.98	3.74
River Bank Protection Works (Km)	Km	4.45	2.926
Construction of Closure-Dam	No	1	0

Table 3-31: CC Blocks Production as on December 2018

S.N.	Polder Number	Estimated Quantity As per Variation Order No. 2 (Updated)	Cumulative Total as of 31 Dec 2016	Cumulative Total as of 31 August 2017	Cumulative Total as of 30 November 2018	Production during December 2018					Cumulative Total as of 30 December 2018
						40x40x40 (No)	40x40x20 (No)	30x30x30 (No)	40x40x30 (No)	Total (No)	
1	32	1,918,026	21,223	304,899	1,728,225	0	-22,533	95,719	0	73,186	1,801,411
2	33	1,619,763	59,088	377,958	1,075,810	26,410	-1,253	0	0	25,157	1,100,967
2	35/1	3,628,073	37,398	372,432	1,824,801	8,808	134,704	0	43,019	186,531	2,011,332
3	35/3	220,567	60,620	369,555	203,829	0	0	0	0	0	203,829
	<b>Total =</b>	<b>7,386,429</b>	<b>178,329</b>	<b>1,424,844</b>	<b>4,832,665</b>	<b>35,218</b>	<b>110,918</b>	<b>95,719</b>	<b>43,019</b>	<b>284,874</b>	<b>5,117,539</b>

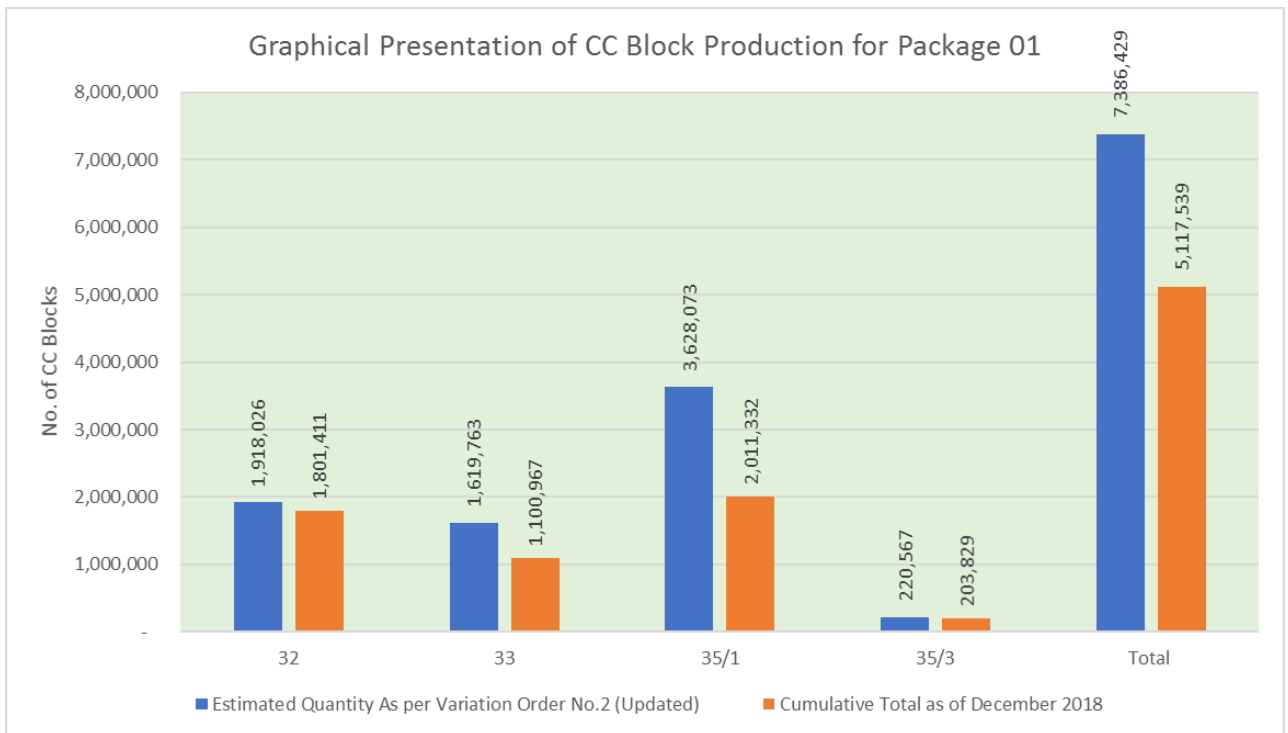


Figure 3-32: Graphical Presentation of CC Block Production for Package-1



Figure 3-33: DS-4 of Polder-33



Figure 3-34: DS-7 of Polder-33



Figure 3-35: DS-13 of Polder-33



Figure 3-36: DS-9 of Polder-33



Figure 3-37: DS-10 of Polder-33



Figure 3-38: DS-12 of Polder-33



Figure 3-39: FS-17 of Polder-33



Figure 3-40: DS-5 of Polder-35/1



Figure 3-41: DS-6 of Polder-35/1



Figure 3-42: FS-2 of Polder-35/1



Figure 3-43: FS-13 of Polder-35/1



Figure 3-44: DS-1 of Polder-35/3



Figure 3-45: DS-3 of Polder-35/3



Figure 3-46: FS-2 of Polder-32

Total nos. of Flushing sluice to be repaired as per plan was 30 nos. out of which 14 nos. has been dropped as detailed below Table 3-32.

Table 3-32: Information of Repair of Flushing Sluices and Drainage Sluices

SI No.	Name of Polder	Total Nos. as per Contract	Current Status	Total Dropped	Remarks
01.	Polder-32	20 nos.	10 Nos.	10 Nos.	mostly fallen outside of the retired embankment.
02.	Polder-33	5 Nos.	2 Nos.	3 Nos.	as it has been constructed by the local shrimp culture owners,
03.	Polder-35/1	3 Nos.	2 Nos.	1 No.	Due to unrepairable
04.	Polder-35/3	2 Nos.	2 Nos.	0	-
<b>Total =</b>		<b>30 Nos.</b>	<b>16 Nos.</b>	<b>14 Nos.</b>	

Remaining (30-14) = 16 nos. are in the program out of which 12 nos. in progress and almost completed and remaining 4 nos. not yet started for want of data which are supposed to be supplied by the contractor.

Total 2 nos. of Drainage Sluices under repair have in program and the work of which are in progress and almost completed.

Table 3-33: List of Flushing Sluices Dropped from the repairing Program

Flushing Sluices	Reasons for dropping
<b>Polder 32</b>	
FM-12	Sluice could not be identified.
FM-01	Not repairable
FM-02	Sluice is now in no use.
FM-07	No need repair, connected with the private pond.
FM-11	No need repair, connected with the private pond.
FO-02	Outside the Rtd. Embankment
FO-04	Outside the Rtd. Embankment
FO-05	Outside the Rtd. Embankment
FO-06	Outside the Rtd. Embankment
FH-9	Engulf due of river erosion.
<b>Polder 33</b>	
FS-02	Private structure, repair not needed.
FS-12	Private structure, repair not needed.
FS-18	Private structure, repair not needed.
<b>Polder-35/1</b>	
FS-20	Not repairable

### 3.4.7 Emergency Works in Package-CEIP-1/W-01

The emergency works under this Package have taken up to close the breaching of existing embankment at some vulnerable locations. The main target of these emergency works was to stop the intrusion of saline water into the Polders to save the crops. In the Contract, there was a provision for an amount under Environmental Mitigation Works (Specified Provisional Sum). After exhaustion of the above-mentioned amount to meet up the cost of the rest emergency works, the expenditures are being meet up from the Physical & Price Contingencies. The status of expenditure up to December 2018 are shown below:

Table 3-34: Summary of Emergency works under the head of "Environmental Mitigation Works"

Sl.	Name of Polder	Total Length	Total Cost Estimate (BDT)
01	Polder-32	4.187	21,314,699
02	Polder-33	1.454	8,616,598
03	Polder-35/1	0.941	7,981,316
04	Polder-35/3	1.04	2,078,530
<b>Total =</b>		<b>7.622</b>	<b>39,991,142</b>

❖ Total available budget as per contract: BDT: 40,000,000.00

Table 3-35: Summary of Emergency works under the head of "Physical & Price Contingency"

Sl. No.	Name of Polder	Total Length	Total Cost Estimate (BDT)
01	Polder-32	4.192	18,398,767
02	Polder-33	1.517	11,943,068
03	Polder-35/1	1.53	20,170,105
04	Polder-35/3	2.879	8,401,201
<b>Total =</b>		<b>10.118</b>	<b>58,913,141</b>

❖ Total available budget as per Variation Order-02 (Updated): BDT: 430,313,430.63

Table 3-36: Details of Emergency Works under the head of “Environmental Mitigation Works”

Sl. No.	Polder No.	Chainage		Total Length (Km)	Name of locations	Date of Approval by the Engineer	Estimated Cost in BDT	Head of Expenditure	FY Year
		From	To						
1	Polder-32	2.883	3.144	0.261	Gunari of Sutharkhali	20-Mar-16	972,969.00	Environmental Mitigation Works	FY 2015-16
2	Polder-32	7.561	7.991	0.430	Kalibari	14-Mar-16	1,307,000.00	Do	FY 2015-16
3	Polder-32	8.161	8.350	0.189	Kalibari	14-Mar-16	614,000.00	Do	FY 2015-16
4	Polder-32	8.491	8.628	0.137	Kalibari	14-Mar-16	1,009,000.00	Do	FY 2015-16
5	Polder-32	7.681	7.981	0.300	Sutarkhali	7-May-17	1,433,223.43	Do	FY 2016-17
6	Polder-32	8.030	8.160	0.130	Sutarkhali	5-Jun-17	639,091.00	Do	FY 2016-17
7	Polder-32	8.164	8.292	0.128	Sutarkhali	16-Apr-17	811,931.00	Do	FY 2016-17
8	Polder-32	8.140	8.217	0.077	Kalibari	22-Jan-17	256,000.00	Do	FY 2016-17
9	Polder-32	8.566	8.649	0.083	Sutarkhali	16-May-17	619,153.00	Do	FY 2016-17
10	Polder-32	12.393	12.693	0.300	Jaynagar	23-Mar-16	1,027,000.00	Do	FY 2015-16
11	Polder-32	18.575	18.690	0.115	Hatkhola	20-Apr-16	817,000.00	Do	FY 2015-16
12	Polder-32	16.680	16.900	0.220	Jhaliakhali of Kamarkhola	23-Mar-16	608,000.00	Do	FY 2015-16
13	Polder-32	18.840	19.960	1.120	Hatkhola	3-Mar-16	817,000.00	Do	FY 2015-16
14	Polder-32	19.179	19.236	0.057	Kamarkhola	24-Apr-17	460,436.32	Do	FY 2016-17
15	Polder-32	30.050	30.148	0.098	Sutarkhali	22-Jun-17	7,702,000.00	Do	FY 2016-17

**Bangladesh Water Development Board (BWDB)**  
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Sl. No.	Polder No.	Chainage		Total Length (Km)	Name of locations	Date of Approval by the Engineer	Estimated Cost in BDT	Head of Expenditure	FY Year
		From	To						
16	Polder-32	36.155	36.232	0.077	Sutarkhali	24-Apr-17	337,118.92	Do	FY 2016-17
17	Polder-32	43.118	43.147	0.029	Sutarkhali	24-Apr-17	103,342.00	Do	FY 2016-17
18	Polder-32	44.561	44.931	0.370	Sutarkhali	20-Mar-16	1,039,924.00	Do	FY 2015-16
19	Polder-32	44.907	44.935	0.028	Sutarkhali	11-May-17	108,959.00	Do	FY 2016-17
20	Polder-32	45.062	45.100	0.038	Shibsha River	27-Mar-17	631,551.00	Do	FY 2016-17
21	Polder-33	0.130	0.280	0.150	Banisanta	2-Jun-16	386,000.00	Do	FY 2015-16
22	Polder-33	0.600	1.300	0.700	Banisanta	2-Jun-16	1,159,000.00	Do	FY 2015-16
23	Polder-33	1.190	1.432	0.242	Banisanta	25-Mar-16	456,000.00	Do	FY 2015-16
24	Polder-33	17.447	17.547	0.100	Ramnagar	19-Jan-16	3,601,000.00	Do	FY 2015-16
25	Polder-33	1.220	1.332	0.112	Baniashanta	25-May-17	663,558.00	Do	FY 2016-17
26	Polder-33	48.800	48.875	0.075	Banisanta	15-Mar-17	1,175,520.00	Do	FY 2016-17
27	Polder-33	48.800	48.875	0.075	Banisanta	15-Mar-16	1,175,520.00	Do	FY 2016-17
28	Polder-35/1	2.100	2.466	0.366	Baleswar	8-May-17	609,128.55	Do	FY 2016-17
29	Polder-35/1	20.082	20.163	0.081	Sarankhola	1-Apr-16	100,000.00	Do	FY 2015-16
30	Polder-35/1	24.430	24.500	0.070	Sarankhola	23-Apr-17	1,793,272.30	Do	FY 2016-17
31	Polder-35/1	24.703	24.864	0.161	Southkhali	21-Jun-17	2,080,957.39	Do	FY 2016-17



Sl. No.	Polder No.	Chainage		Total Length (Km)	Name of locations	Date of Approval by the Engineer	Estimated Cost in BDT	Head of Expenditure	FY Year
		From	To						
32	Polder-35/1	24.673	24.864	0.191	Bogi	19-Jun-17	2,080,957.39	Do	FY 2016-17
33	Polder-35/1	63.050	63.106	0.056	Morelgonj	1-Mar-16	1,317,000.00	Do	FY 2015-16
34	Polder-35/1	63.112	63.128	0.016	Same as 63.050 to 63.106	1-Mar-16	0.00	Do	FY 2015-16
35	Polder-35/3	3.394	3.494	0.100	MollikerBer	27-Apr-17	418,530.02	Do	FY 2016-17
36	Polder-35/3	7.176	7.905	0.729	Panchamala of Dema	22-Mar-16	533,000.00	Do	FY 2016-17
37	Polder-35/3	9.558	9.597	0.039	Panchamala of Dema	22-Mar-16	23,000.00	Do	FY 2016-17
38	Polder-35/3	9.815	9.887	0.072	Panchamala of Dema	22-Mar-16	34,000.00	Do	FY 2016-17
39	Polder-35/3	29.865	29.965	0.100	Radhaballab	27-Mar-16	1,070,000.00	Do	FY 2015-16
<b>Total</b>		<b>39</b>	<b>39</b>	<b>7.62</b>			<b>39,991,142</b>		

Table 3-37: Detailed of Emergency Works under the head of "Physical & Price Contingencies"

Sl. No.	Polder No.	Chainage		Total Length (Km)	Name of locations	Date of Approval by the Engineer	Estimated Cost in BDT	Head of Expenditure	FY Year
		From	To						
1	Polder-32	2.805	2.850	0.045	Gunari of Sutharkhali	7-Jun-18	287,852.00	Physical & Price Contingency	FY 2017-18
2	Polder-32	2.765	2.858	0.093	Gunari of Sutharkhali	1-Aug-18	474,946.00	Do	FY 2018-19
3	Polder-32	3.093	3.633	0.540	Gunari of Sutharkhali	2-Aug-16	277,000.00	Do	FY 2016-17
4	Polder-32	3.130	3.180	0.050	Gunari of Sutharkhali	11-Sep-17	317,883.95	Do	FY 2017-18
5	Polder-32	3.103	3.241	0.138	Gunari of Sutharkhali	31-Oct-16	593,800.00	Do	FY 2016-17
6	Polder-32	8.060	8.100	0.040	Kalibari	18-Nov-17	77,000.00	Do	FY 2018-19
7	Polder-32	8.321	8.414	0.093	Kalibari	1-May-17	530,000.00	Do	FY 2017-18
8	Polder-32	8.350	8.385	0.035	Kalibari	1-Dec-16	60,000.00	Do	FY 2016-17
9	Polder-32	8.586	8.729	0.143	Kamarkhola	27-Aug-17	922,055.59	Do	FY 2017-18
10	Polder-32	8.600	8.670	0.070	Kalibari	26-Jun-17	150,000.00	Do	FY 2017-18
11	Polder-32	8.650	8.713	0.063	Kamarkhola	6-Jul-17	113,492.00	Do	FY 2017-18
12	Polder-32	13.604	13.644	0.040	Sutarkhali	21-Aug-17	311,091.06	Do	FY 2017-18
13	Polder-32	16.078	16.326	0.248	Jhaliakhali of Kamarkhola	25-Jul-17	1,181,802.00	Do	FY 2017-18
14	Polder-32	16.030	16.300	0.270	Jhaliakhali of Kamarkhola	25-Mar-18	1,033,085.00	Do	FY 2017-18
15	Polder-32	16.078	16.326	0.248	Jhaliakhali of Kamarkhola	28-Sep-17	1,154,217.71	Do	FY 2017-18

**Bangladesh Water Development Board (BWDB)**  
**Coastal Embankment Improvement Project, Phase-1 (CEIP-1)**

Sl. No.	Polder No.	Chainage		Total Length (Km)	Name of locations	Date of Approval by the Engineer	Estimated Cost in BDT	Head of Expenditure	FY Year
		From	To						
16	Polder-32	16.135	16.395	0.260	Jhaliakhali of Kamarkhola	5-Jun-18	1,712,969.00	Do	FY 2017-18
17	Polder-32	16.240	16.300	0.060	Jhaliakhali of Kamarkhola	25-May-18	30,358.00	Do	FY 2017-18
18	Polder-32	16.298	16.525	0.227	Jaliakhali	7-May-16	1,200,000.00	Do	FY 2017-18
19	Polder-32	16.400	16.445	0.045	Jhaliakhali of Kamarkhola	1-Aug-18	258,751.00	Do	FY 2018-19
20	Polder-32	16.504	16.592	0.088	Jhaliakhali of Kamarkhola	4-Jun-18	539,967.00	Do	FY 2017-18
21	Polder-32	19.150	19.225	0.075	Kamarkhola	5-Apr-17	40,000.00	Do	FY 2017-18
22	Polder-32	19.165	19.265	0.100	Kamarkhola	2-Aug-16	625,000.00	Do	FY 2017-18
23	Polder-32	19.141	19.277	0.136	Kamarkhola	22-Aug-17	122,307.32	Do	FY 2017-18
24	Polder-32	24.759	24.859	0.100	Sharankhola	14-Nov-16	1,859,614.00	Do	FY 2017-18
25	Polder-32	25.659	25.719	0.060	Kamarkhola	17-Nov-16	415,302.00	Do	FY 2016-17
26	Polder-32	31.345	31.387	0.042	Sutarkhali	27-Apr-17	84,867.18	Do	FY 2017-18
27	Polder-32	36.179	36.268	0.089	Sutarkhali	22-Jun-17	164,657.00	Do	FY 2016-17
28	Polder-32	36.317	36.365	0.048	Sutarkhali	1-Aug-18	307,884.00	Do	FY 2018-19
29	Polder-32	36.225	36.341	0.116	Sutarkhali	11-Aug-18	150,000.00	Do	FY 2017-18
30	Polder-32	41.570	41.620	0.050	Sutarkhali	22-May-18	468,884.00	Do	FY 2017-18
31	Polder-32	43.115	43.155	0.040	Thursday Bazar, Sutarkhali	1-Aug-18	129,624.00	Do	FY 2018-19

**Bangladesh Water Development Board (BWDB)**  
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Sl. No.	Polder No.	Chainage		Total Length (Km)	Name of locations	Date of Approval by the Engineer	Estimated Cost in BDT	Head of Expenditure	FY Year
		From	To						
32	Polder-32	44.900	45.120	0.220	Sutarkhali	20-Aug-18	508,047.00	Do	FY 2018-19
33	Polder-32	44.957	45.083	0.126	Kalabogi	1-May-16	926,000.00	Do	FY 2018-19
34	Polder-32	45.506	45.518	0.012	Kalabogi	10-May-17	32,000.00	Do	FY 2017-18
35	Polder-32	45.549	45.731	0.182	Sutarkhali	12-Jul-17	1,338,310.00	Do	FY 2017-18
36	Polder-33	1.086	1.127	0.041	Banishanta	19-Sep-17	432,185.30	Do	FY 2017-18
37	Polder-33	1.155	1.184	0.029	Same as 1.086 to 1.127	19-Sep-17	0.00	Do	FY 2017-18
38	Polder-33	0.005	0.060	0.055	Banishanta	1-Jun-17	344,069.00	Do	FY 2016-17
39	Polder-33	1.070	1.116	0.046	Dhangmari	25-May-17	31,798.00	Do	FY 2017-18
40	Polder-33	1.200	1.242	0.042	Baniashanta	20-Aug-18	294,835.00	Do	FY 2018-19
41	Polder-33	0.235	0.280	0.045	Baniashanta	13-Aug-18	416,831.00	Do	FY 2018-19
42	Polder-33	17.465	17.595	0.130	Ramnagar	1-Aug-16	865,000.00	Do	FY 2016-17
43	Polder-33	21.730	21.800	0.070	Dacope	11-Aug-18	464,469.00	Do	FY 2018-19
44	Polder-33	48.575	48.658	0.083	Banishanta	16-Aug-16	594,000.00	Do	FY 2017-18
45	Polder-33	48.653	48.741	0.088	Banishanta	13-Aug-18	1,672,456.00	Do	FY 2018-19
46	Polder-33	48.767	48.836	0.069	Same amount of Ch. 48.653 to 48.741	13-Aug-18	0.00	Do	FY 2018-19
47	Polder-33	48.892	48.972	0.080	Banishanta	11-Sep-18	497,585.00	Do	FY 2018-19

**Bangladesh Water Development Board (BWDB)**  
**Coastal Embankment Improvement Project, Phase-1 (CEIP-1)**

Sl. No.	Polder No.	Chainage		Total Length (Km)	Name of locations	Date of Approval by the Engineer	Estimated Cost in BDT	Head of Expenditure	FY Year
		From	To						
48	Polder-33	48.850	49.100	0.250	Banisanta	16-May-18	2,480,308.98	Do	FY 2017-18
49	Polder-33	48.868	49.087	0.219	Banisanta	1-Aug-18	1,097,128.00	Do	FY 2018-19
50	Polder-33	48.930	49.050	0.120	Banisanta	24-Aug-16	1,780,283.00	Do	FY 2016-17
51	Polder-33	49.000	49.045	0.045	Banisanta	10-Oct-17	324,000.00	Do	FY 2018-19
52	Polder-33	49.022	49.099	0.077	Banisanta	11-Oct-17	337,240.00	Do	FY 2018-19
53	Polder-33	49.047	49.075	0.028	Banisanta	21-Sep-17	310,880.00	Do	FY 2018-19
54	Polder-35/1	20.020	20.308	0.288	Sarankhola	1-Jul-16	2,800,000.00	Do	FY 2017-18
55	Polder-35/1	23.812	24.014	0.202	Southkhali	24-Apr-18	394,032.65	Do	FY 2017-18
56	Polder-35/1	23.988	24.028	0.040	Sarankhola	24-May-18	355,507.00	Do	FY 2018-19
57	Polder-35/1	24.252	24.329	0.077	Southkhali	29-Jul-18	1,961,705.54	Do	FY 2018-19
58	Polder-35/1	24.273	24.340	0.067	Southkhali	27-Nov-17	1,370,419.82	Do	FY 2017-18
59	Polder-35/1	24.400	24.457	0.057	Sarankhola	1-Aug-16	812,000.00	Do	FY 2016-17
60	Polder-35/1	24.366	24.454	0.088	Bagi	30-Oct-17	1,372,087.83	Do	FY 2017-18
61	Polder-35/1	24.475	24.537	0.062	Bagi	19-Sep-17	761,484.52	Do	FY 2016-17
62	Polder-35/1	24.525	24.605	0.080	Bagi	9-May-18	1,539,821.57	Do	FY 2017-18
63	Polder-35/1	24.594	24.666	0.072	Bagi	30-Oct-17	1,352,571.65	Do	FY 2017-18

**Bangladesh Water Development Board (BWDB)**  
**Coastal Embankment Improvement Project, Phase-1 (CEIP-1)**

Sl. No.	Polder No.	Chainage		Total Length (Km)	Name of locations	Date of Approval by the Engineer	Estimated Cost in BDT	Head of Expenditure	FY Year
		From	To						
64	Polder-35/1	24.164	24.251	0.087	Sarankhola	16-May-18	1,847,015.74	Do	FY 2017-18
65	Polder-35/1	23.788	23.833	0.045	Sarankhola		535,205.00	Do	FY 2018-19
66	Polder-35/1	24.590	24.765	0.175	Southkhali	12-Sep-18	2,063,945.09	Do	FY 2018-19
67	Polder-35/1	24.759	24.859	0.100	Southkhali	30-Nov-17	1,801,033.32	Do	FY 2017-18
68	Polder-35/1	24.865	24.955	0.090	Southkhali	3-Dec-17	1,203,275.08	Do	FY 2017-18
69	Polder-35/3	0.127	0.168	0.041	MollikerBer	27-Jul-16	550,000.00	Do	FY 2016-17
70	Polder-35/3	0.130	0.170	0.040	MollikerBer	7-May-17	287,000.00	Do	FY 2017-18
71	Polder-35/3	2.826	2.948	0.122	MollikerBer	27-Apr-17	408,850.00	Do	FY 2017-18
72	Polder-35/3	5.500	5.570	0.070	Basbaria	25-Jul-17	20,270.00	Do	FY 2018-19
73	Polder-35/3	7.000	7.007	0.007	Panchamala of Dema	5-Jul-17	14,000.00	Do	FY 2018-19
74	Polder-35/3	9.867	9.917	0.050	MollikerBer	22-Mar-16	26,000.00	Do	FY 2016-17
75	Polder-35/3	9.873	10.083	0.210	Panchamala of Dema	23-Jul-18	1,635,916.00	Do	FY 2018-19
76	Polder-35/3	9.900	10.050	0.150	Dema	7-May-17	1,046,761.94	Do	FY 2016-17
77	Polder-35/3	10.000	10.040	0.040	Panchamala of Dema	19-Jul-17	45,269.00	Do	FY 2017-18
78	Polder-35/3	10.040	10.085	0.045	Panchamala of Dema	18-Jul-17	51,276.00	Do	FY 2017-18
79	Polder-35/3	10.085	10.120	0.035	Panchamala of Dema	19-Aug-17	39,819.00	Do	FY 2018-19

Sl. No.	Polder No.	Chainage		Total Length (Km)	Name of locations	Date of Approval by the Engineer	Estimated Cost in BDT	Head of Expenditure	FY Year
		From	To						
80	Polder-35/3	10.120	10.160	0.040	Panchamala of Dema	20-Aug-17	45,269.00	Do	FY 2018-19
81	Polder-35/3	13.055	13.155	0.100	Radhabollov of Karapara	23-Jul-18	1,564,711.00	Do	FY 2018-19
82	Polder-35/3	13.283	13.315	0.032	Same amount of ch. 13.055 to 13.155	23-Jul-18		Do	FY 2018-19
83	Polder-35/3	13.345	13.400	0.055	Same amount of ch. 13.055 to 13.155	23-Jul-18		Do	FY 2018-19
84	Polder-35/3	13.209	13.242	0.033	Radhaballab	8-Oct-16	445,000.00	Do	FY 2017-18
85	Polder-35/3	13.343	13.366	0.023	Same as 13.209 to 13.242	8-Oct-16		Do	FY 2017-18
86	Polder-35/3	13.483	13.510	0.027	Same as 13.209 to 13.242	8-Oct-16		Do	FY 2017-18
87	Polder-35/3	13.110	13.148	0.038	Radhabollov	3-Jun-17	379,048.09	Do	FY 2016-17
88	Polder-35/3	13.569	13.602	0.033	Same as 13.110 to 13.148	3-Jun-17	0.00	Do	FY 2016-17
89	Polder-35/3	13.350	13.387	0.037	Bagerhat	18-Sep-17	268,708.79	Do	FY 2017-18
90	Polder-35/3	13.067	13.187	0.120	Radhaballab	27-Mar-16	1,120,000.00	Do	FY 2015-16
91	Polder-35/3	13.573	13.610	0.037	Radhaballab	27-Mar-16	123,000.00	Do	FY 2015-16
92	Polder-35/3	29.600	29.700	0.100	Khagraghat	26-Aug-17	40,395.00	Do	FY 2018-19
93	Polder-35/3	29.800	29.950	0.150	Same as Ch. 29.600 to 29.700	26-Aug-17		Do	FY 2018-19
94	Polder-35/3	30.000	30.070	0.070	Rampal	12-Jun-17	17,000.00	Do	FY 2017-18

Sl. No.	Polder No.	Chainage		Total Length (Km)	Name of locations	Date of Approval by the Engineer	Estimated Cost in BDT	Head of Expenditure	FY Year
		From	To						
95	Polder-35/3	36.625	36.665	0.040	Rampal	31-Aug-16		Do	FY 2016-17
96	Polder-35/3	37.130	37.325	0.195	MollikerBer	19-Jul-17	30,064.00	Do	FY 2018-19
97	Polder-35/3	37.500	37.550	0.050	Rampal	17-Jul-17	9,543.00	Do	FY 2017-18
98	Polder-35/3	37.624	37.774	0.150	MollikerBer	17-Jul-17	34,000.00	Do	FY 2017-18
99	Polder-35/3	38.585	38.904	0.319	MollikerBer	28-Aug-16	158,010.00	Do	FY 2016-17
100	Polder-35/3	38.560	38.980	0.420	MollikerBer	20-Jul-17	41,290.00	Do	FY 2017-18
<b>Total</b>		<b>100</b>	<b>100</b>	<b>10.12</b>			<b>58,913,141</b>		



### 3.4.8 Monitoring of EHS Compliance

A field visit was carried out by the Environmental Specialist, DDCS&PMSC during 08.12.2018 to 14.12.2018 to various work sites of Package-1 areas to monitor the EHS qualities complied by the Contractor.

The major works of the Contractor, Package-1 are construction of Drainage sluices and Flushing sluices in all Polders and production of CC block in the automated plants. The EHS findings at different work sites are described as follows (more emphasis given on non-complied EHS issues):

#### **Rupsha CC Plant Manufacturing Plant, Polder-32**

- The Operator, Plate workers, Forklift drivers and other workers have PPE (like helmet, ear plug, visible vest, Safety shoe etc.)
- Has 3 separate bins for collection of solid waste, need pasting of label
- Has first aid box with medicine, need to be kept near the plant site
- Some irregularity found in supply of safe bottled water to the workers
- Requested the Manager (Mr. Song) to take care on any spillage of fuel during delivery
- Facility for temporary collection of industrial waste exists, the waste needs to be disposed frequently
- There is register for environmental monitoring and accident recording
- Tool box talks are held, but they need to be done on daily basis.
- 1 noise measuring device has been provided to the Site Manage for measuring noise level every fortnightly for maintaining noise/sound records.

#### **Drainage Regulator-10, Polder 32**

- Workers have some items of PPE, but lacking in safety shoe and mask
- Lack of hygienic toilet (water sealed) facility for the workers
- Lack of proper supply of safe drinking water to the workers
- Lack of medicine in the first aid box
- Generators are placed on bare soil surface, may cause pollution by fuel spillage
- The work site has poor fencing (by tape), need to be strengthened by wooden/bamboo fencing to check any potential accident
- Lack of initiative/awareness of EHS Officer for improved status of EHS
- Discussion made with the workers on EHS issues.

#### **Mongla CC Plant manufacturing Plant, Polder 33**

- There is proper gate keeping of the work site
- There are some lacking in provision and use of PPE
- The work site has dust pollution, spraying of water be done more frequently.
- 1 noise measuring device has been provided to the Mr. Prodip, EHS Officer for measuring noise level every fortnightly and maintaining noise/sound records
- The waste collection bins are open and have no label
- The fuel storage needs proper fencing
- Safe drinking water and medicines are supplied to the workers.

### **Flushing Regulator-5, Polder 33**

- Has cautionary signs and signboards of the work site
- The workers have PPE for their safety
- Has hygienic latrine facility for the workers
- Has suitable alternative road for community communication, need a signboard with arrowhead marking
- There is supply of safe bottled water and first aid facility
- The generator should be placed on an impervious platform to check pollution from fuel and chemicals

The sluice is located near the Sundarban and thus requested the workers not to cause any problem to the trees, birds and animals of the Forest.

### **Flushing Regulator-6, Polder 33**

- The workers have PPE but lacking in first aid facility
- The site has signboards and signages
- The work site has a suitable alternative road for community movement
- There is weak status of waste management, requiring immediate improvement
- The work site has a hygienic latrine for the workers, need some land filling to check river water pollution.
- The generator needs to be placed on impervious platform to check potential pollution of earth and ground water.

### **Drainage Regulator-6, Polder 33**

- The workers have poor status of PPE for the workers
- There is no erection of sufficient signboard and signages
- Poor demarcation of work site, need improving immediately to check any accident
- First aid facility and supply of safe drinking is irregular, need to be improved immediately
- The generator needs to be placed on impervious platform to check potential pollution of earth and ground water.
- The overall EHS situation of this Drainage Sluice is poor and need to be improved with immediate effect, the issue has been discussed with the Contractor.

### **Doratana CC Block Manufacturing Plant, Polder 35/3**

- The workers have been provided with PPE, some have lacking of safety shoes
- Poor waste collection facility, need to be improved, along with proper waste disposal
- Supply of safe drinking water and first aid facilities are done properly
- Lacking in dust management, should spray water more frequently
- A container has to be placed at refuelling spot to collect the spill fuel causing potential pollution
- The fencing along the river site is poor, need immediate improvement.

### **Flushing Regulator-5. Polder 35/3**

- The workers have PPE (like helmet, vest, hand gloves and safety shoes)
- There is accommodation facility for the workers, need some improvement
- The existing latrine is not hygienic (no water seal), need to establish a hygienic latrine for the workers soon
- The organic waste/kitchen waste are disposed in earthen ditch

- The diversion road needs a signboard (with signage) for facilitating community movement
- The generator to be placed on an impervious platform to avoid pollution from fuel and chemical
- The workers need to be provided with safe drinking water for health safety.

#### **Tafalbari CC Block Manufacturing Plant, Polder 35/1**

- The workers have PPE (like helmet, vest, hand gloves and safety shoes)
- Frequent water spraying is marked to reduce dust pollution
- Barricade of the hopper need to be placed to avoid any potential accident
- The workers at CC plant maintain shifting working hours (morning from 7.00 am to 12.00 am and afternoon from 1.30 pm to 5.00 pm) to avoid noise pollution and hearing impairment of the workers)
- The Operator has a protected room, can work avoiding vulnerability to noise and dust/air pollution
- The welding site has impervious floor and equipment kept well-arranged except the gas cylinders to be kept well covered
- Fuel delivery taken at site without any spillage causing pollution
- Disposal of solid waste done to the vendors of the locality

#### **CC Block Dumping site of Polder 35/1 between Ch. 3.800 km and 3.900 km, Polder 35/1**

- Workers have PPE (like helmet, visible vest, safety boot etc.)
- Workers need to supply safe drinking water regularly
- Need to mark a safety line in the barge for workers' movement
- Have first aid facility for the workers.

#### **Drainage Regulator-11, Polder 35/1**

- The workers have PPE for workers (like helmet, visible vest, hand gloves, safety shoes)
- The work site has 2 sanitary latrines and first aid facility for the workers
- Water need to be sprayed more frequently for dust management
- Need erecting signboard for safe communication of the people through the diversion road
- The existing demarcation need to improve by bamboo/ wood facility
- The newly appointed ESH Assistant (Mr. Samir Ch. Halder) need to be trained by the Contractor).

#### **Flushing Regulator-18, Polder 35/1**

- The workers have some PPE like helmet, visible vest but most lack hand gloves, safety shoes.
- Fencing done by erecting tape, need to be strengthened by bamboo/wooden fences
- The generator needs to be placed on impervious floor to check pollution of soil and ground water by seepage/spillage of fuel/chemical
- Workers have first aid facility and hygienic latrine to use
- Tool box talks are held regularly by the EHS Assistant (Mr. Jewel)
- Has a suitable diversion road for communication of the community need erection of signage/signboard.
- Discussion with the workers was made on the importance/requirement of EHS issues during working.

### **Flushing Regulator-19, Polder 35/1**

- Fencing done partly by erecting tape, need to be strengthened by bamboo/wooden fences
- The generator needs to be placed on impervious floor to check pollution of soil and ground water by seepage/spillage of fuel/chemical
- Tool box talks are held regularly by the EHS Assistant (Mr. Tanvir Hasnat)
- Has a suitable diversion road for communication of the community lacking in erection of signboard with arrowhead.
- The work site has no register to document EHS monitoring

### **3.4.9 Holding of Monthly EHS Meeting**

A monthly EHS meeting was organized on 13.12.2018 In the Office of BWDB, CEIP-1 Khulna, chaired by the Concerned Executive Engineer. In the meeting discussion was made on all the EHS issues observed during the field visit. Major discussion was carried out on the non-complied and poorly complied EHS issues to be properly addressed by the Contractor. The Contractor provided a deadline for compliance of the EHS issues.

Accordingly, monitoring of the improved EHS compliance by the Contractor will be carried out for enhancement/ improvement of EHS qualities in various work sites of Polders of Package-1.

The other issues discussed in the monthly meeting are as follows:

- Preparation of the Contractor through improvement of EHS issues for the visit of the Annual EHS Audit team of M&E Consultants, which will be hold soon.
- Translation of EAP into Bangla and Chinese within 31 December, 2018.
- Appointment of qualified local EHS Officer for Polder 32 within 31 December 31, 2018.

The Contractor agreed to comply the mentioned EHS issues within specified time limit.

### **3.4.10 Review of EIA Reports of Package-3**

World Bank has made several comments on the 7 EIA reports of Polders of Pakcgae-3. Works for responses of the comments have been started by the project Environmentalists.

### **3.4.11 Information on number of workers, number of training etc.**

The Contractor, Package-1 has submitted information on like number of local and expatriate workers, number of trainings for the workers, number of accidents faced by the workers etc. for the month of December, 2018 as in the following Table 3-38.

Table 3-38: Information for the month of December, 2018

Locations	No. of total workers in 4 Polders in this month		No. of env. training and trainees in this month		No. of total accidents took place in this month	No. of env. grievance recorded this month	No. of problem faced for env. compliance in this month	Comments
	Local workers	Expatriate workers	No. of trainings	No. of trainees				
Polder 32	310	29	10	339	01	00	00	Minor accident
Polder 33	266	30	19	296	00	00	00	
Polder 35/1	369	39	17	408	02	00	00	Minor accident
Polder 35/3	181	11	15	192	00	00	00	
Khulna	18	18	02	36	00	00	00	
Total of Package-1	1144	127	63	1271	03	00	00	

### 3.4.12 Noise Measurement of Automatic CC Plant

The Contractor measures the noise levels of high noise producing locations, mainly the noise levels CC block producing plants in order to adopt required measures for maintain EHS qualities (specially for the workers and close by local population, if there is any). The noise levels are submitted on monthly basis for submitting in the Monthly Progress Report. The measured data for the month of December is enclosed herewith.

The contractor has measured noise level to evaluate the intensity of Noise Quality (dB) upon the sensitive receivers of the CC plant (Plant operator, curing area, stacking area, Kitchen, workers' accommodation area etc.) in Rupsha CC plant area of Polder 32 as given below:

Table 3-39: Noise level of Rupsha CC Block Manufacturing Plant

Monitoring Location		Polder 32, Rupsha CC Block Manufacturing Plant Coordinates: N 22°47'22.16" E 89°35'17.28"
Monitoring Date & Time		04.12.2018 (Day time)
Noise Meter Model		Digital Sound Level Meter AR824
Major Noise source(s) during monitoring		Automatic CC Block Manufacturing Plant, Fork Lift, Motor Vehicles, Engine Boat/water vessels
Location category		Industrial area
Measurement Result(s), dB	Plant operator	113.5, 87.8, 76.5
	Curing area (start point)	84.4, 67.3, 65.8
	Curing area (end point)	78.2, 64.0, 70.8
	Stacking area	84.3, 74.3, 68.8
	Kitchen	73.6, 59.3, 51.0
	House no. 01	55.7, 63.5, 46.2
	House no. 02	51.2, 46.8, 43.8
Daytime Standard of sound, dB (ECR 1997)		50(residential area); 60(mixed area); 70(commercial area); 75(industrial area)

The Contractor has measured the noise levels of sensitive locations of Pankhali Automatic CC Block Manufacturing Plant (1) of Polder 32 including Plant operator, Curing area, Stacking area, Workers' living room, Fuel storage area:

Table 3-40: Noise level of Pankhali CC Block Manufacturing Plant (1)

Monitoring Location		Polder 32, Pankhali CC Block Manufacturing Plant Coordinates: N 22°64'36.70" E 89°52'22.66"
Monitoring Date & Time		03.12.2018 (Day time)
Noise Meter Model		Digital Sound Level Meter AR824
Major Noise source(s) during monitoring		Automatic CC Block Manufacturing Plant, Fork Lift, Motor Vehicles
Location category		Industrial area
Measurement Result(s), dB	Plant operator	115.0, 98.4, 88.3
	Curing area (start point)	86.5, 79.8, 71.5
	Curing area (end point)	81.4, 68.5, 62.3
	Stacking area	64.5, 57.2, 50.0
	Worker's living room	56.2, 45.1, 42.8
	Fuel storage area	69.2, 54.6, 49.2
Daytime Standard of sound, dB (ECR 1997)		50 (residential area); 60 (mixed area); 70 (commercial area); 75 (industrial area)

The Contractor measured the noise levels of sensitive locations of Pankhali Automatic CC Block Manufacturing Plant (2) of Polder 32 including Plant operator, Curing area, Stacking area, Workers' living room, Fuel storage area as provided follows. It may be added here that the Contractor has provided noise measuring equipment to all the CC manufacturing plants for the purpose:

Table 3-41: Noise level of Pankhali CC Block Manufacturing Plant (2)

Monitoring Location		Polder 32, Pankhali CC Block Manufacturing Plant Coordinates: N 22°64'36.70" E 89°52'22.66"
Monitoring Date & Time		03.12.2018 (Day time)
Noise Meter Model		Digital Sound Level Meter AR824
Major Noise source(s) during monitoring		Automatic CC Block Manufacturing Plant, Fork Lift, Motor Vehicles
Location category		Industrial area
Measurement Result(s), dB	Plant operator	114.5, 95.3, 88.5
	Curing area (start point)	86.2, 75.2, 68.3
	Curing area (end point)	73.8, 65.2, 56.4
	Stacking area	69.6, 57.6, 49.2
	Worker's living room	55.8, 46.0, 41.8
	Fuel storage area	68.2, 56.6, 50.3
Daytime Standard of sound, dB (ECR 1997)		50(residential area); 60(mixed area); 70(commercial area); 75(industrial area)

The Contractor measured the noise levels of sensitive locations of Mongla Automatic CC Block Manufacturing Plant of Polder 33 including Plant operator, Curing area, Stacking area, Workers' living room, Fuel storage area as provided follows:

Table 3-42: Noise level of Mongla CC Block Manufacturing Plant

❖ Monitoring Location		Polder 33, Mongla CC Block Manufacturing Plant Coordinates: N 22°28'54.21" E 89°35'38.38"
Monitoring period & Time		14.12.2018, (Day time)
Noise Meter Model		Digital Sound Level Meter AR824
Major Noise source(s) during monitoring		Automatic CC Block Manufacturing Plant, Fork Lift, Motor Vehicles
Location category		Industrial area
Measurement Result(s) ,dB	Plant operator	105.0, 103.8, 87.4
	Curing area (start point)	88.4, 85.0, 77.8
	Curing area (end point)	70.5, 67.2, 63.4
	Stacking area	60.7, 52.3, 56.5
	Worker's living room	66.5, 54.4, 56.8
	Fuel storage area	56.4, 49.2, 52.5
Daytime Standard of sound, dB (ECR 1997)		50(residential area); 60(mixed area); 70(commercial area); 75(industrial area)

The Contractor measured the noise levels of sensitive locations of Pankhali Automatic CC Block Manufacturing Plant (2) of Polder 35/1 including Plant operator, Curing area, Stacking area, Workers' living room, Rod cleaning, Drilling area as provided follows:

Table 3-43: Noise level of Tafalbari CC Block Manufacturing Plant

Monitoring Location		Polder 35/1, Tafalbari CC Block Manufacturing Plant Coordinates: N 22°16'21.03" E 89°50'20.47"
Monitoring Date & Time		21.12.2018 (Day time)
Noise Meter Model		Digital Sound Level Meter AR824
Major Noise source(s) during monitoring		Automatic CC Block Manufacturing Plant, Fork Lift, Motor Vehicles
Location category		Commercial area
Measurement Result(s), dB	Plant operator	114.5, 97.7, 85.3
	Curing area (Starting point)	87.3, 70.8, 65.9
	Curing area (End point)	83.5, 63.2, 56.7
	Stacking area	76.3, 62.5, 58.2
	House no. 01	68.2, 58.4, 52.8
	Rod cleaning area	80.5, 74.2, 62.8
	Drilling area	78.5, 68.3, 56.0
Daytime Standard of sound, dB (ECR 1997)		50(residential area); 60(mixed area); 70(commercial area); 75(industrial area)

The Contractor measured the noise levels of sensitive locations of Doratana Automatic CC Block Manufacturing Plant of Polder 35/3 including Plant operator, Curing area, Stacking area, Workers' living room, Rod cleaning, Drilling area as provided follows:

Table 3-44: Noise level of Daratana CC Block Manufacturing Plant

Monitoring Location		Polder 35/3, Daratana CC Block Manufacturing Plant Coordinates: N 22°38'36.21" E 89°48'10.66"
Monitoring Date & Time		23.12.2018 (Day time)
Noise Meter Model		Digital Sound Level Meter AR824
Major Noise source(s) during monitoring		Automatic CC Block Manufacturing Plant, Fork Lift, Motor Vehicles
Location category		Commercial area
Measurement Result(s), dB	Plant operator	115.7, 95.4, 85.6
	Curing area (Start point)	85.3, 75.7, 68.4
	Curing area (End point)	76.5, 64.3, 62.3
	Stacking area	82.4, 62.6, 59.2
	House no. 01	81.2, 75.8, 69.6
	Rod cleaning area	77.5, 72.3, 65.2
	Drilling area	82.8, 76.8, 68.5
Daytime Standard of sound, dB (ECR 1997)		50(residential area); 60(mixed area); 70(commercial area); 75(industrial area)

### 3.4.13 Information of EHS related Issues of Package-2

The monthly Polder-wise Information on number of workers, number of training, number of accidents etc. for Package- are provided in Table 3-45. The data on noise level as measured during the current month are provided in tables below:

The contractor has made a test to evaluate the intensity of Noise Quality (dB) upon the sensitive receivers around the different CC Block Manufacturing Plant as given below:

Table 3-45: Information for the month of December 2018, Package-2

Locations	No. of Total Workers in 6 Polders this Month		No. of environmental training and no. of environmental trainees in this month		No. of total accidents took place in this month	No. of total environmental grievance in this month	No. of problem faced for environmental compliance in this month	comment
	Local Workers	Expatriate workers	No. of trainings	No. of trainers				
Polder 39/2C	428	36	2	100	1	0	0	Finger cut and it has been treated with first aid facility and got cured.
Polder 40/2	122	14	2	30	0	0	0	
Polder 41/1	247	17	2	70	2	0	0	2 foot bruise during work. No major injuries.
Polder 43/2C	9	3	0	0	0	0	0	Civil works yet to be started



Locations	No. of Total Workers in 6 Polders this Month		No. of environmental training and no. of environmental trainees in this month		No. of total accidents took place in this month	No. of total environmental grievance in this month	No. of problem faced for environmental compliance in this month	comment
	Local Workers	Expatriate workers	No. of trainings	No. of trainers				
Polder 47/2	58	12	1	30	0	0	0	
Polder 48	164	17	2	40	0	0	0	2 finger cut and 3 foot bruise during work. No major injuries.

### 3.4.14 Polder-wise Information and noise measurement data of Polders of Package-2

The Contractor, Package-2 has measured noise levels of various susceptible locations of CC manufacturing plants and provided in Tables below as follows:

Table 3-46: Noise records for Polder 39/2C, December 2018

Location: Polder 39/2C	
Monitoring Location	Polder 39/2C - Camp Area, CC Block, Manufacturing plant & River Side Coordinates: river x-486899.756 y-501983.934; manufacturing plant x-486822.98, y-501992.532; campsite x-486725.108, y-502102.197;
Monitoring Date	26-Dec-18
Noise Meter Model	Digital sound level meter AS804
Major noise sources during monitoring	CC block manufacturing plant, Generator.
Location category	Industrial area
Measurement results, dB	Operator of Automatic CC Block Machine (Down) 73.6-77.5-75.55
	Operator of Automatic CC Block Machine (Up) 72.5-75.6-74.65
	Area For Tray Replacement 64.3-70.6-67.45
	Generator Room (Outside) 80.4-82.3-81.35
	Generator Room (Inside) 84.7-85.3-85.0
	CC Block Stack Area (5-10 M From Machine) 63.6-64.2-63.9
	Workshop Area 70.5-71.5-71.00
	Camp Area 60.2-58.6-59.4
	Community (East) 70.5-71.3-70.9
	Community (West) 66.3-62.3-64.3
	River Side 58.4-54.4-56.4
Daytime standard of sound, dB (ECR 1997)	50(residential area);60(mixed area);70(commercial area);75(industrial area)

Table 3-47: Noise records for Polder 40/2, December 2018

<b>Location: Polder: 40/2</b>		
Month: December, 2018		
Monitoring Location	Polder 40/2, CC Block Manufacturing plant Coordinates: E4971135.092 N434345.458	
Monitoring Date	30.12.2018(Day time)	
Noise Meter Model	Digital sound level meter AS804	
Major noise sources during monitoring	CC block manufacturing plant, generator	
Location category	industrial area	
Measurement results, dB	Plant operator E497101.340 & N434323.594	98,87,75
	curing area (start point) E497290.714 & N434415.425	83.5,62.3,68
	curing area (end point) E497285.562 & N434420.641	73.1,71.5,68.4
	stacking area E497136.442 & N434331.912	82.3,65,65.9
	Kitchen E497072.614 & N434420.556	70.3,62.0,55.2
	House No.1 E497090.812 & N434417.668	50.5,54,50.4
	House No.2 E497079.566 & N434419.432	52.4,57.6,51.6
Daytime standard of sound, dB (ECR 1997)	50(residential area);60(mixed area);70(commercial area);75 (industrial area)	

Table 3-48: Noise records for Polder 41/1, December 2018

<b>Location: Polder 41/1</b>		
Month: December, 2018		
Monitoring Location	Polder 41/1, CC Block, Manufacturing plant Coordinates: N447305.458 E521446.412	
Monitoring Date	26.12.2018(Day time)	
Noise Meter Model	Digital sound level meter AS804	
Major noise sources during monitoring	CC block manufacturing plant, Generator	
Location category	Industrial area	
Measurement results, dB	Plant operator N447291.788 E521447.84	120,100,88
	curing area (start point) N447318.086 E521433.608	79,75,72
	curing area (end point) N447305.458 E521446.412	83,76,68
	stacking area N447365.951 E521434.048	84,80,69
	Kitchen N447392.819 E52141.700	74.6,65.5,62

	House No.1 E521409.219	N447368.946	66,57,51
	House No.2 E521416.627	N447389.027	52,50,49
Daytime standard of sound, dB (ECR 1997)			50(residential area); 60(mixed area); 70(commercial area); 75(industrial area)

Table 3-49: Noise records for Polder 47/2, December 2018

<b>Location: Polder 47/2</b>			
Month: December, 2018			
Monitoring Location		Polder 47/2, CC Block, Manufacturing plant Coordinates: N423238.5061 E518603.9325	
Monitoring Date		28.12.2018(Day time)	
Noise Meter Model		Digital sound level meter AS804	
Major noise sources during monitoring		CC block manufacturing plant, Generator	
Location category		Industrial area	
Measurement results, dB	Plant operator	N423140.8130 E518585.0610	85.7,88.1,90.3
	curing area (start point)	N423082.1580 E518565.5899	63.4,58.3,65.6
	curing area (end point)	N423188.9492 E518591.5960	54.5,58.7,50.3
	stacking area	N423116.8499 E518559.1663	54.7,68.8,58.3
	Kitchen	N423202.3607 E518670.3063	67.5,53.8,63.7
	House No.1	N423214.5893 E518670.7678	62.3,60.6,59.8
	House No.2		
Daytime standard of sound, dB (ECR 1997)			50(residential area); 60(mixed area); 70(commercial area); 75(industrial area)

Table 3-50: Noise records for Polder 48, December 2018

<b>Location: Polder 48 Noise Record</b>			
Month: December, 2018			
Monitoring Location		Polder 48, CC Block, Manufacturing plant Coordinates: N416325.431 E512365.154	
Monitoring Date		28.12.2018(Day time)	
Noise Meter Model		Digital sound level meter AS804	
Major noise sources during monitoring		CC block manufacturing plant, Generator	
Location category		Industrial area	
Measurement results, dB	Plant operator	N416380.152 E512338.650	95, 87, 97
	curing area (start point)	N416365.201 E512314.320	81, 85, 79

curing area (end point) N416412.693 E512374.993	82, 86, 83
stacking area N416410.630 E512390.085	76, 74, 80
Kitchen N416375.098 E512307.765	62, 73, 74
House No.1 N416359.302 E512310.137	53, 52, 47
House No.2 N416365.201 E512327.038	55, 46, 48
Daytime standard of sound, dB (ECR 1997)	50(residential area);60(mixed area);70(commercial area);75(industrial area)

### 3.4.15 Progress of Mechanical Work

About mechanical aspects the following activities were conducted:

#### (A) Installation of gates and Hoist at Site

Total Number of Gates arrived at the work site=19 (Pkg-1)

Number of Gates Installed =19

Physical Inspection was done, measurement of all the visual parts was taken and found in order as per design and specification. Operation at no load condition has been done at site by raising and lowering the gates by hoist and chain pulley.

For testing strength of materials, test piece from the Gates as per supplied drawing and send them for testing.

Test Report received from BUET. As the test result was found satisfactory the quality of the Gates and Hoist has been certified as acceptable.

#### (B) Site Inspection Report of Gates and Hoists (2nd Lot) of Package-1 from 28 to 29 July 2018 by the Mechanical Engineer.

Findings: The contractor has imported nearly 100 numbers of gates and hoists of different structures of 4 polders under package-1. Physical measurement of different parts of gates & hoists were taken in every site for number of gates. But as there was no Screw Gauge or Vernier Callipers, accurate measurement could not be taken for thickness of the plates of Gates.

The contractor was instructed to procure Screw Gauge/Vernier Callipers immediately and take accurate measurement of these parts in presence of QCS Mr. M.A. Jinnah and send the result found to Dhaka Office at the earliest. It was instructed not to go for fitting fixing of Gates in the structures without getting acceptance letter from Dhaka Office.

The contractor was instructed to send materials to Dhaka Office to test the quality at BUET to compare the materials with the designed specifications: Accordingly, contractor collected test samples for gates and hoists and the samples were sent to BUET for testing. The result is yet to be obtained.

## 3.5 Task C: Supervise Construction & Administer Contract of Package-2

### 3.5.1 Introduction

This MPR covers all major site activities executed in each Polder up to 31 December, 2018.

The Contract was signed on 8 March, 2017 for the execution of Rehabilitation/Reconstruction and upgrading of six Polders in total, namely Polder-39/2C, 40/2, 41/1, 43/2C, 47/2 & 48 under CEIP-1 (Contract No: CEIP-1/W-02)

The Contractor has been paid in total 10% Advance Payment as per Contract. The second instalment 5% Advanced Payment has been approved by the Engineer and paid by the Employer in June, 2018.

Upon receipt of the Advanced Payment, the Contractor proceeded with the procurement of goods and services to create the team and physical facilities, equipment and/or tools to start the site work and by this time the Contractor has mobilized numbers of heavy equipment at all sites from China and established their site offices and physical work is going on.

### 3.5.2 Physical Progress

Table 3-51: Physical Works of Package-2 as on 31 December 2018

Item	Unit	Contract Quantity	Program FY 2018-2019		Prior Cumulative		Current Month		Current Cumulative	
			Full	Part	Completed	Partially Completed	Completed	Partially Completed	Completed	Partially Completed
Embankment Construction/e-sectioning	km	209.00	47.900	0.00	18.60 (8.89%)	3.30	0.00	0.85	18.60 (8.89%)	4.15
Drainage Channel Excavation/Re-excavation	km	188.00	40.50	0.00	0	0	0.00	0.00	0	0
Drainage Sluice Construction	no	50	22	0	0	11	0	15	0	15
Drainage Sluice Repair	no	6	5	0	0	0	0	1	0	1
Flushing Inlet Construction	no	73	17	0	0	11	0	13	0	13
Flushing Inlet Repair	no	8	8	0	0	0	0	2	0	2
Embankment Slope Protection Work	km	9.50	1.80	0.00	0.74 (7.78%)	0	0.00	0	0.74 (7.78%)	0
River Bank Protection Work	km	5.40	2.95	0.00	0.09 (1.66%)	0.00	0.06	0.00	0.150 (2.77%)	0.00
Construction of Road Pavement	Km	51.00	0	0.00	0	0	0	0	0	0
Construction of RCC Flood Wall	Km	17.00	0	0.00	0	0	0	0	0	0
Closure Dam Construction	no	8	0	0	0	0	0	0	0	0

Table 3-52: Detailed Information of Construction Status of Drainage Sluice for Package-2

Drainage Sluice	Preparation cofferdam, excavation, dewatering	Foundation Sand piling, Sheet piles	Structure concreting work	Installation CC block placing, Gate	Weighted % progress
1	2	3	4	5	6
<b>Polder-39/2C</b>					
DS-1	0%	0%	0%	0%	0%
DS-2	0%	0%	0%	0%	0%
DS-3	0%	0%	0%	0%	0%
DS-4	0%	0%	0%	0%	0%
DS-5	0%	0%	0%	0%	0%
DS-6	0%	0%	0%	0%	0%
DS-7	60%	0%	0%	0%	6%
DS-8	0%	0%	0%	0%	0%
DS-9	0%	0%	0%	0%	0%
DS-10	0%	0%	0%	0%	0%
DS-11	0%	0%	0%	0%	0%
DS-12	100%	100%	99%	0%	84%
DS-13	0%	0%	0%	0%	0%
<b>Polder-40/2</b>					0%
DS-2	100%	100%	20%	0%	41%
DS-3	0%	0%	0%	0%	0%
DS-5	0%	0%	0%	0%	0%
DS-7	0%	0%	0%	0%	0%
DS-7A	0%	0%	0%	0%	0%
DS-8	0%	0%	0%	0%	0%
DS-9	0%	0%	0%	0%	0%
DS-10	0%	0%	0%	0%	0%
DS-10A	0%	0%	0%	0%	0%
<b>Polder-41/1</b>					0%
DS-1	0%	0%	0%	0%	0%
DS-2	0%	0%	0%	0%	0%
DS-3	0%	0%	0%	0%	0%
DS-4	0%	0%	0%	0%	0%
DS-5	100%	100%	35%	0%	49%
DS-6	0%	0%	0%	0%	0%
DS-7	35%	0%	0%	0%	4%
DS-8	100%	100%	5%	0%	33%
DS-9	90%	0%	0%	0%	9%
DS-10	0%	0%	0%	0%	0%
<b>Polder-43/2C</b>					0%
DS-1	0%	0%	0%	0%	0%
DS-2	0%	0%	0%	0%	0%
DS-3	0%	0%	0%	0%	0%
DS-4	0%	0%	0%	0%	0%
DS-5	0%	0%	0%	0%	0%
DS-6	0%	0%	0%	0%	0%
DS-7	10%	0%	0%	0%	1%
DS-8	0%	0%	0%	0%	0%
<b>Polder 47/2</b>					0%
DS-1	100%	51%	0%	0%	20%
DS-2	100%	50%	0%	0%	20%
DS-3	80%	0%	0%	0%	8%
DS-4	25%	0%	0%	0%	3%
<b>Polder-48</b>					0%
DS-1	100%	100%	20%	0%	41%
DS-2/A	0%	0%	0%	0%	0%
DS-3/2	75%	0%	0%	0%	8%
DS-3/3	0%	0%	0%	0%	0%
DS-3/4	100%	100%	0%	0%	30%
DS-6	0%	0%	0%	0%	0%
<b>Total (%)</b>	23.5%	14.0%	3.6%	0.0%	
Total (BDT)	9,758,557	210,520,890	847,936,812	366,531,694	1,434,747,953
<b>Overall Progress</b>	2,293,261	29,515,029	30,356,138	0	62,164,428

Table 3-53: Detailed Information of Construction Status of Flushing Sluice for Package-2

Flushing Sluice	Preparation cofferdam, excavation, dewatering	Foundation, Sand piling, Sheet piles	Structure Concreting work	Installation CC block placing, Gate	Weighted % progress
1	2	3	4	5	6
<b>Polder 39/2C</b>					
FS - 1					0%
FS - 2					0%
FS - 2/1					0%
FS - 3					0%
FS - 5					0%
FS - 6					0%
FS - 6/1					0%
FS - 6/2					0%
FS - 7					0%
FS - 8					0%
FS - 9					0%
FS - 10					0%
FS - 11					0%
FS - 12					0%
FS - 13					0%
FS - 14					0%
FS - 14/1					0%
FS - 15					0%
FS - 16					0%
FS - 17					0%
FS - 17/1					0%
<b>Polder 40/2</b>					
FS - 1					0%
FS - 3					0%
FS - 4					0%
FS - 4/1	100%	100%	99%		84%
FS - 9	80%				8%
FS - 10	10%				1%
FS - 13					0%
FS - 14					0%
FS - 16					0%
FS - 17					0%
FS - 20					0%
<b>Polder-41/1</b>					
FS - 1	70%				7%
FS - 3	100%	100%	5%		33%
FS - 5					0%
FS - 6					0%
FS - 7					0%
FS - 8	100%	100%	99%		84%
FS - 9	100%	100%	99%		84%
FS - 12					0%
FS - 15	100%	100%	99%		84%
FS - 16					0%
FS - 21					0%
FS - 22					0%
FS - 23					0%
FS - 24					0%
FS - 25					0%
FS - 28					0%
<b>Polder-43/2C</b>					
FS - 1					0%
FS - 1A					0%
FS - 2					0%
FS - 3					0%
FS - 7					0%
FS - 8					0%
FS - 9					0%
FS - 10					0%
FS - 12					0%
FS - 13					0%
FS - 14					0%
FS - 15					0%
FS - 16					0%
FS - 17					0%
FS - 18					0%
<b>Polder 47/2</b>					
FS - 1	100%	100%	99%		84%
FS - 2					0%
FS - 3					0%
FS - 6	100%	100%	99%		84%
FS - 7	100%	100%	99%		84%
<b>Polder-48</b>					
FS - 1					0%
FS - 3	60%				6%
FS - 4	100%	100%	99%		84%
<b>Overall progress</b>	15.77%	12.68%	11.23%	0.0%	
<b>Total (%)</b>	16.00%	12.85%	11.38%	0.0%	
<b>Completed (BDT)</b>	<b>39,468,417</b>	<b>182,788,473</b>	<b>546,301,845</b>	<b>66,713,381</b>	<b>835,272,116</b>
<b>Physical (BDT)</b>	6,313,694	23,496,713	62,188,028	0	91,998,435

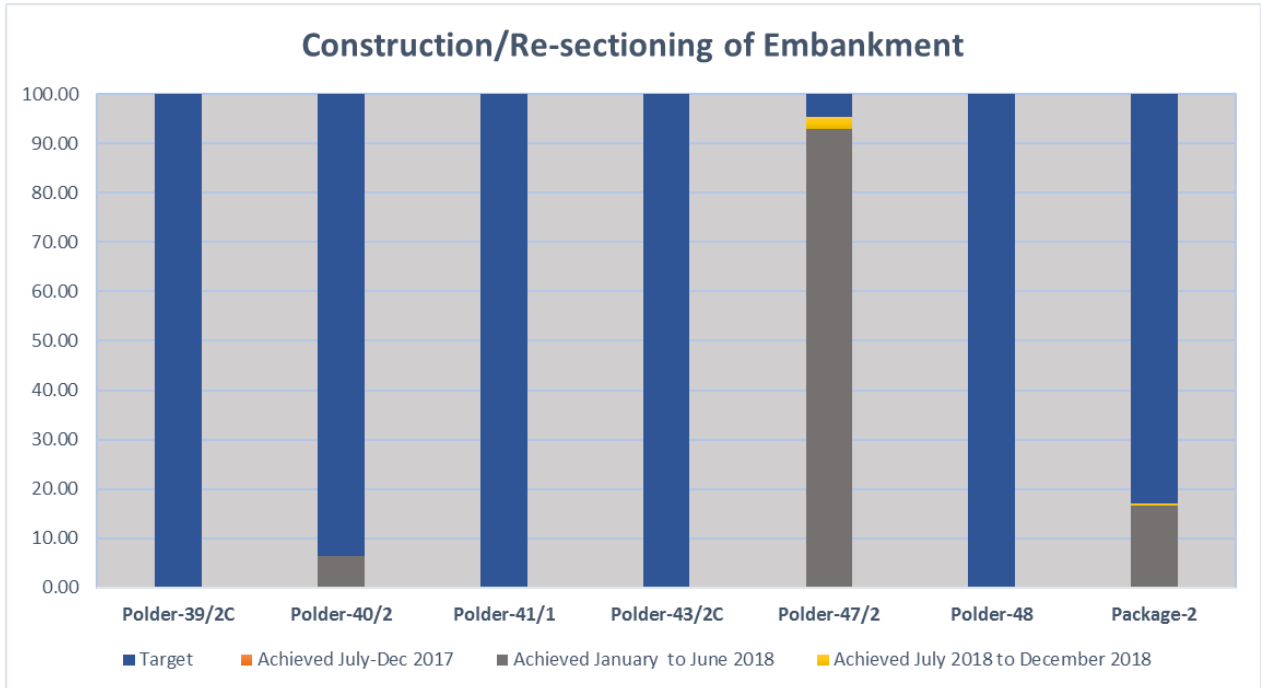


Figure 3-47: Construction / Re-sectioning of Embankment of Package-2

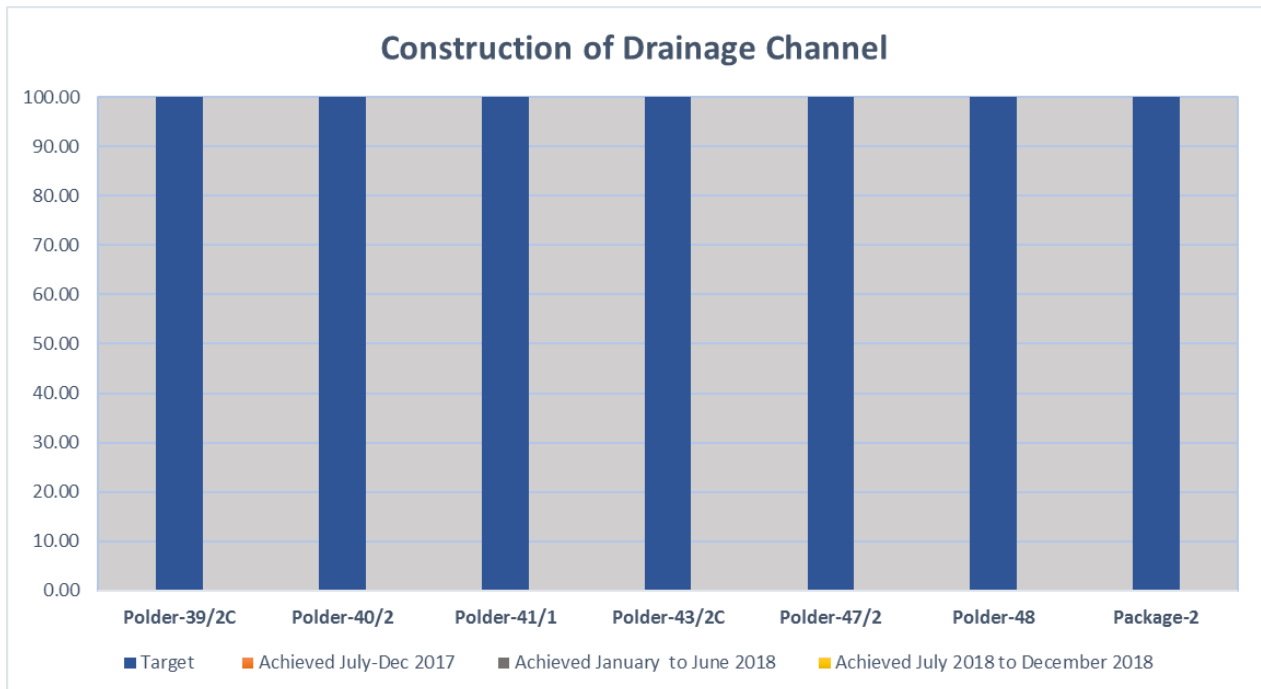


Figure 3-48: Construction of Drainage Channel of Package-2



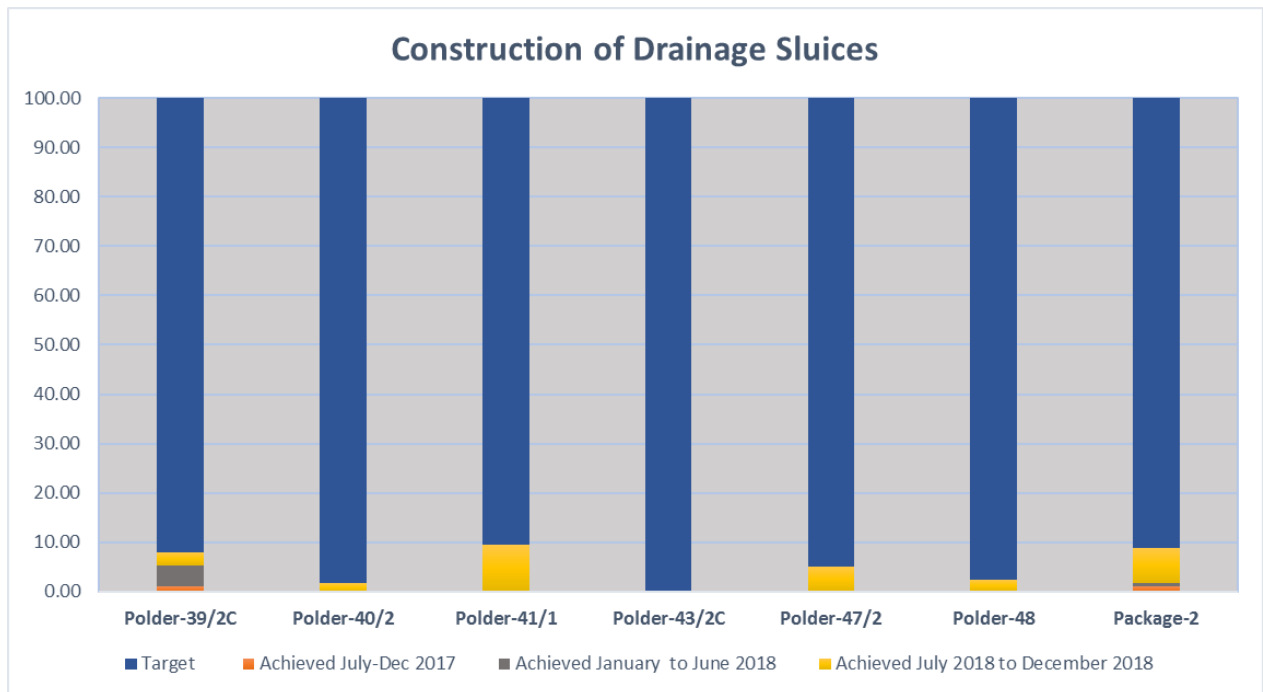


Figure 3-49: Construction of Drainage Sluice of Package-2

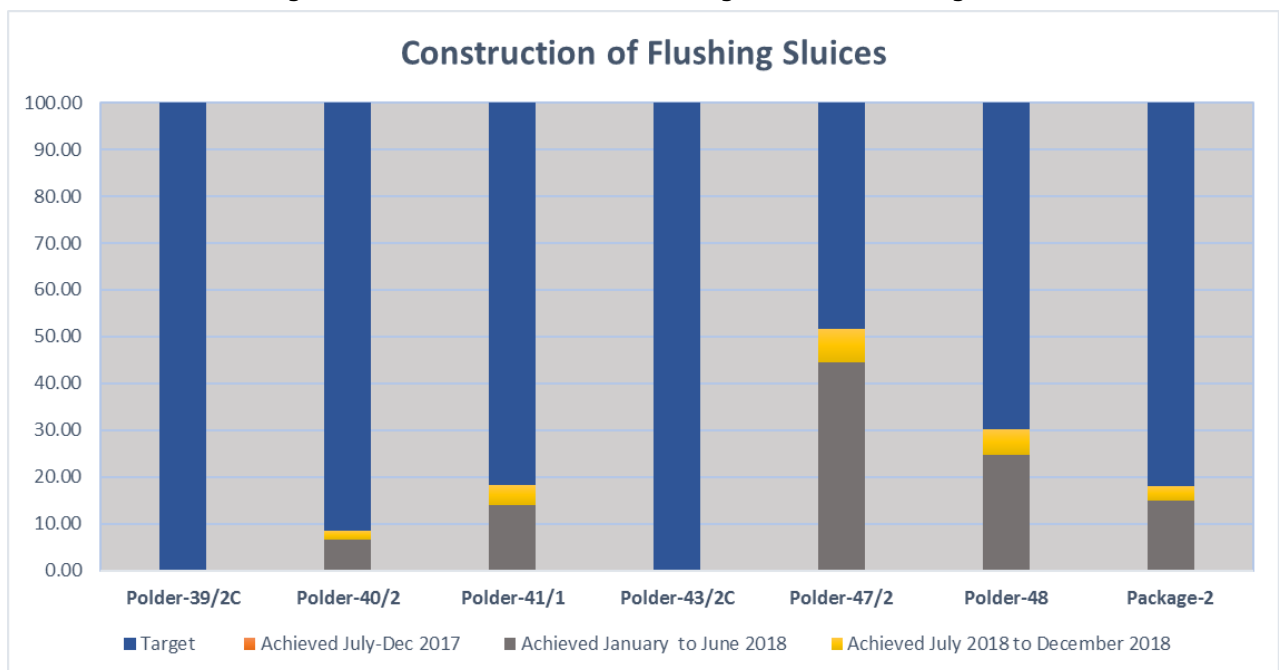


Figure 3-50: Construction of Flushing Sluice of Package-2

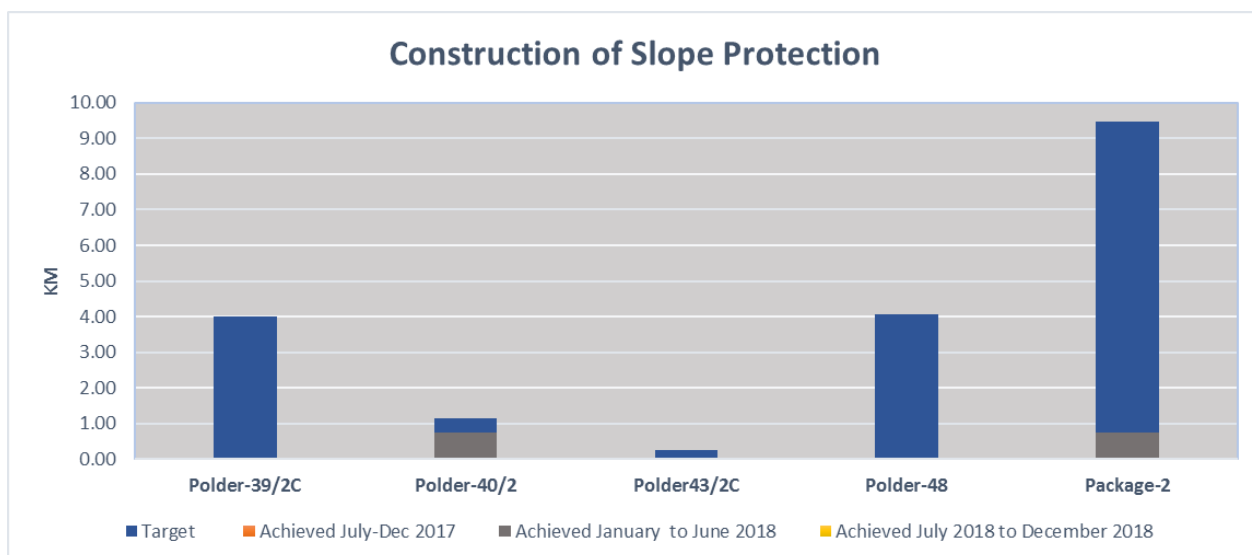


Figure 3-51: Construction of Slope Protection of Package-2

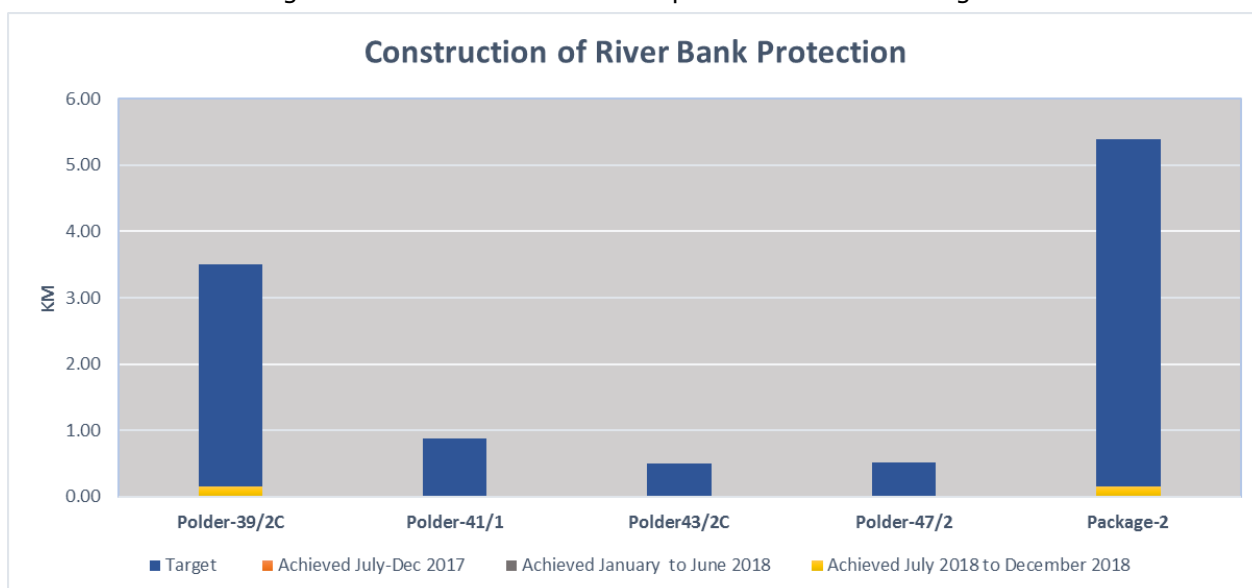


Figure 3-52: Construction of River Bank Protection of Package-2

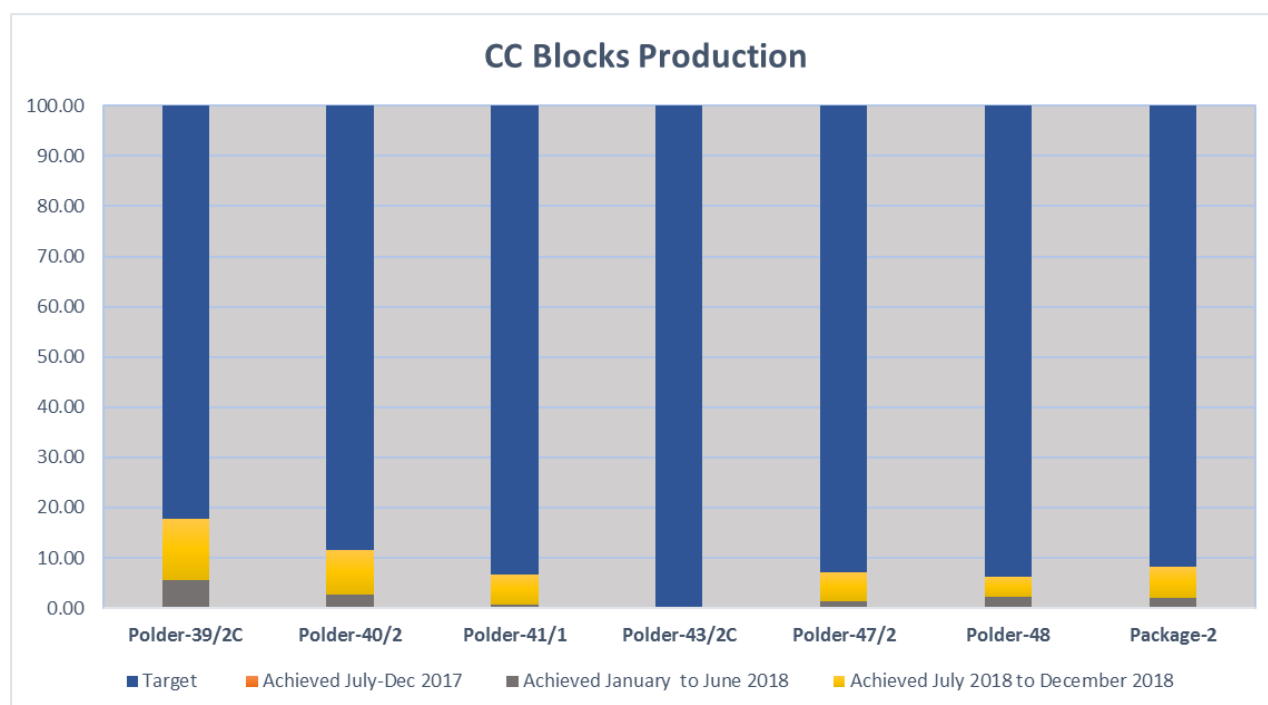


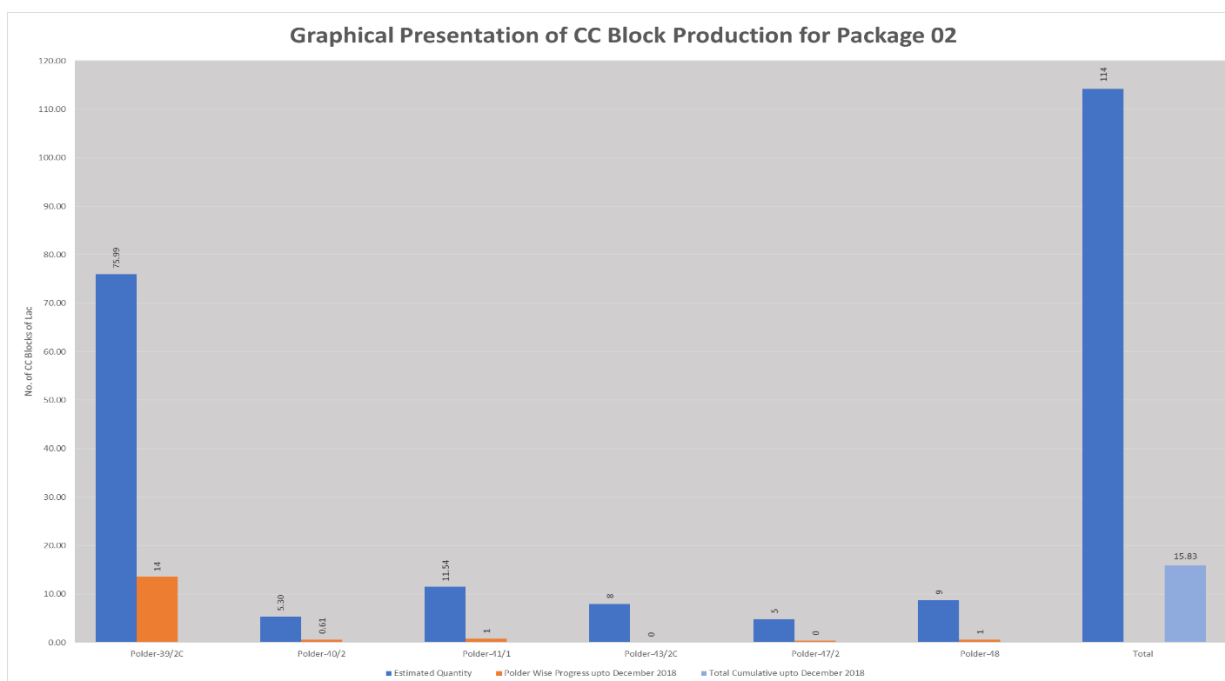
Figure 3-53: CC Blocks Production of Package-2

Table 3-54: Progress of Package-2 as on December 2018

Item	Unit	Contract Quantity	Status 31 December 2018
Construction/Re-sectioning of Embankment	Km	209.00	18.60 (F) 4.15 (P)
Excavation/Re-excavation of Drainage Channel	Km	188.00	-
Construction of Drainage Sluice	No	50	15 (P)
Repairing of Drainage Sluice	No	6	1 (P)
Construction of Flushing Sluice	No	73	13 (P)
Repairing of Flushing Sluice	No	8	2 (P)
Embankment Slope Protection Works (Km)	Km	9.50	0.74
River Bank Protection Works (Km)	Km	5.40	0.150
Construction of Road Pavement over Embankment and Road Crossing Embankment	Km	51.00	-
Construction of RCC Flood Wall	Km	17.00	-
Construction of Closure-Dam	No	8	-

**Table 3-55: CC Blocks Production as on December 2018**

S.N.	Polder Number	Estimated Quantity	Cumulative Total as of 31 Dec 2017	Cumulative Total as of 30 November 2018	Production during December 2018					Cumulative Total as of 31 December 2018
					40x40x40 (No)	40x40x20 (No)	30x30x30 (No)	40x40x30 (No)	Total (No)	
1	39/2C	7,598,926	0	1,087,709	267,181	0	0	0	267,181	1,354,890
2	40/2	530,130	0	49,088	5,610	0	0	6488	12,098	61,186
3	41/1	1,153,937	0	59,548	18,539	0	0	0	18,539	78,087
4	43/2C	789,700	0	0	0	0	0	0	0	0
5	47/2	481,717	0	30,889	3,200	0	0	0	3,200	34,089
6	48	867,351	0	40,586	5,110	0	0	8649	13,759	54,345
	<b>Total =</b>	<b>11,421,761</b>	<b>0</b>	<b>1,267,820</b>	<b>299,640</b>	<b>0</b>	<b>0</b>	<b>15,137</b>	<b>314,777</b>	<b>1,582,597</b>



**Figure 3-54: Graphical Presentation of CC Block Production for Package-2**

### 3.5.3 Advance Payments

The contractor has received 2<sup>nd</sup> instalment of 5% Advance Payment having Total expenditure incurred against advance payment is BDT: 1028.40 M.

The site works of Package-2 are going on with sufficient machineries and equipment's.

Contractor of Package-2 has mobilized its Chinese engineers and supporting personnel and its local labour force and this will be increasing onward. Shipment of heavy equipment at all sites from China has mainly been done. The deployment list of contractor staff (Chinese People) is appended below in Table 3-56. The Contractor has established their site offices at Bhandaria, Kalapara, Barguna, Patharghata and their field head quarter at Patuakhali.

Table 3-56: Contractor Staffs available in Package-2

SN	Description	Total Nos.	Patua khali	Polder-39/2C	Polder-40/2	Polder-41/1	Polder-43/2C	Polder-47/2	Polder-48
1	Management	0	0	0	0	0	0	0	0
2	Technical Staff	15	1	5	2	2	0	2	3
3	Operator/ Driver	156	3	75	25	29	2	6	16
4	Skilled Worker	177	0	8	62	39	1	4	63
5	Common Labour	574	7	340	21	151	4	32	55
6	Admin/Support	38	8	8	5	6	1	5	5
7	Construction	87	0	28	7	20	1	9	22
<b>Total=</b>		<b>1047</b>	<b>19</b>	<b>428</b>	<b>122</b>	<b>247</b>	<b>9</b>	<b>58</b>	<b>164</b>

### 3.5.4 Equipment mobilization

The Equipment including engines, machines, tools, barges, etc. have been purchased and deployed at site. The equipment including Excavator, Dump truck, Roller, Pay Loader, Automated CC Blocks manufacturing plants and Tipper are at site.

The target of the 1st dry season is to manufacture CC block in connection with River Bank Protection work. Thus 5 nos. automated CC block manufacturing Machines are installed at the CC blocks manufacturing Yard in Polder-39/2C. Some CC block will also be manufactured manually, for which CC block manufacturing started in Polder-40/2, Polder-41/1, Polder-47/2, & Polder-48.

A length of 18.60 km full and 4.15 km Partially Embankment Re-sectioning work has been completed. Construction of 13 Nos. Flushing Sluices and 15 Nos. Drainage Sluices are in Progress.

Table 3-57: Requirement List of Equipment for Package-2

S/N	Description	Sub-Total	39/2C	40/2	41/1	43/2C	47/2	48	Remarks
1	Bulldozer	7	-	1	2		2	2	
2	Excavator	33	4	6	9	1	6	7	
3	Loader	21	10	4	2		2	3	
4	Compaction Roller	4	1	1	1		1		
5	Water Tanker	5	1	1	1		1	1	
6	Fork Lift	59	57		2				
7	Dump Truck	78	15	17	12		10	24	
8	Pick Up	3	2		1				
9	Light Truck	3	1		-		1	1	
10	Flat Truck	11	4	1	3		1	2	
11	Crane Truck	3	-		1		1	1	
12	Lorry-Mounted Crane	1	1		-				
13	Diesel Tanker	4	1		1		1	1	
14	Hydraulic Breaking Hammer	3	1		1		1		
15	Pile Driver Clamps	9	2	1	2		2	2	
16	Pile Driver	6	2		4				
17	Belt Conveyor	8	6		-		1	1	
18	CC Block Manufacturing Machine	5	5		-				
19	Concrete Pump	2	-		-			2	
20	Concrete Mixer	37	7	3	8		7	12	
21	Steel Bar Bending Machine	5	1	1	1		1	1	
22	Steel Bar Cutting Machine	2	1		1				
23	Boat	3	2		1				
24	Tugboat	2	2		-				

S/N	Description	Sub-Total	39/2C	40/2	41/1	43/2C	47/2	48	Remarks
25	Barge	4	-		-		2	2	
26	Motorcycle	4	2		1			1	
27	Generator	38	16	3	8		6	5	
28	Air Compressor	7	1	1	1		2	2	
29	Level Machine	9	3	1	2		1	2	
30	GPS	4	1		1	1	1		
31	Total Station	1	1						
32	Deep Water Measuring Instrument	48	-	12	1		26	9	
33	Submersible Pump	36	-		32		4		
34	Slush Pump	15	9		6				
35	Fresh Water Pump	6	6						
36	Self-Priming Pump	11	11						
37	Single-Cylinder Diesel Engine Pump	16	-		8		4	4	
38	Business Car	4	1	1	1	-	-	1	
	<b>Total:</b>	<b>517</b>	<b>177</b>	<b>54</b>	<b>114</b>	<b>2</b>	<b>84</b>	<b>86</b>	



Figure 3-55: Site View of Completed Sluice—DS-12 of Polder 39/2C



Figure 3-56: Excavating the Foundation for the DS-7 of Polder 39/2C



Figure 3-57: Dumping the CC block for the river bank protection works of Polder- 39/2C



Figure 3-58: Dewatering for FS -9 of Polder 40/2



Figure 3-59: Construction of embankment near K12+000 of Polder- 40/2



Figure 3-60: Executing the sand pile for DS-8 of Polder-41/1



Figure 3-61: Pouring the lean concrete for FS-3 of Polder 41/1



Figure 3-62: Construction of embankment near K8+750 Of Polder 41/1



Figure 3-63: Dewatering for DS-3 of Polder 47/2



Figure 3-64: Site view of complete sluice-FS- 7 of Polder-47/2



Figure 3-65: Painting the bitumen for DS-1 of Polder 48



Figure 3-66: Executing the sand pile for DS-3/4 of Polder 48

### 3.5.5 Plans for execution of works

The contractor was advised to proceed with the top priority set of civil works, namely all bank protection works across four Polders (Polder-39/2c, 41/1, 47/2 & 48) during the dry sessions 2017-2020. As per the rate of progress of land availability and land acquisition plans, it is noted that a part of the land acquisition at four Polders (except the Polder-39/2C) does not pose any problem. Execution of re-sectioning work of existing embankment is partially completed for the first dry season 2017-2018 along the alignment of BWDB's acquired Land.

#### **Polder-39/2C:**

- DS-12: Complete, except railing structural work,
- CC Blocks: 1,354,890 nos. manufactured.
- Construction of DS-07 is in progress.

#### **CC block manufacturing yard:**

- To complete 100% ground hardening for CC block curing yard,
- To complete ground hardening for CC block stacking yard,



### **Polder-40/2:**

- Re-sectioning of embankment of 2.4 km is 100% completed and 2.00 km is partially completed.
- Re-sectioning of embankment in 0.500 km is in progress.
- FS-4/1: Complete, except railing structural work.
- Construction of DS-2 is in progress.
- CC Blocks: 61,186 nos. cast.
- 

### **Polder-41/1:**

- FS-8, FS-9 & FS-15: Complete, except railing structural work.
- Construction of DS-5, DS-6, DS-8, DS-9 and FS-1 & FS-3 are in progress.
- CC Blocks: 78,087 nos. cast.

### **Polder-43/2C**

- The survey work of embankment is in progress.
- Construction of DS-7 is in progress.

### **Polder-47/2:**

- Re-sectioning of embankment 16.20 km is 100% complete.
- FS-1, FS-6, and FS-7: Complete, except operating platform & railing structural work.
- Construction of DS-1, DS-2, DS-3 & DS-4 are in progress.
- CC Blocks: 34,089Nos.cast.

### **Polder-48:**

- FS-4: Complete, except railing structural work.
- Construction of DS-1, DS-3/2, DS-3/4 and FS-3 is in progress.
- CC Blocks: 54,345 nos. cast.

Other structures and embankment works are to be started very soon of 2018-2019 and 2019-2020. Site activities on all structures will through first, second and third dry season. The majority of the sites works are scheduled during these three main dry seasons.

### **3.5.6 Updated Physical Site activities of the contractor**

Three fragments of land of about 35 hectares have been arranged by the contractor to establish CC block manufacturing yard in Polder-39/2C where CC Blocks are being manufactured. Pre-work survey of the cross section of embankment in Polder-39/2C, Polder-40/2, Polder 41/1 and Polder-43/2C is partially completed, and Polder-47/2 and Polder-48 is complete.

### **Polder-39/2C:**

- DS-12: Complete except railing structural work,
- Construction of DS-7 is in progress;
- CC Blocks: 1,354,890 nos. manufactured.
- The pre-work survey of embankment is in progress.

### **Polder-40/2:**

- Re-sectioning of embankment of 2.4 km is 100% complete and 2.00 km is partially complete and the work is in progress.
- FS-4/1: Complete except railing structural work;
- CC Blocks: 61,186 nos. manufactured.
- Construction of DS-2 and FS-9 are in progress;

### **Polder-41/1:**

- FS-8, FS-9 & FS-15: Complete, except railing structural work ,
- CC Blocks: 78,087 nos. manufactured.
- Construction of DS-5, DS-7, DS-8, DS-9, FS-1 & FS-3 are in progress.

### **Polder-43/2C**

- The survey work of embankment is in progress
- Construction of DS-7 is in progress

### **Polder-47/2:**

- Re-sectioning of embankment 16.20 km is 100% complete.
- FS-1, FS-6, FS-7: Complete except operating platform & railing structural work,
- CC Blocks: 34,089 nos. manufactured.
- Construction of DS-1, DS-2, DS-3 and DS-4 are in progress

### **Polder-48:**

- FS-4: Complete except railing structural work,
- CC Blocks: 54,345 nos. manufactured.
- Construction of DS-1 , DS-3/2, DS-3/4 and FS-3 are in progress;

## **3.5.7 Construction of Regional of Building at Patuakhali and others building at Kalapara and Pathorghata**

**Regional office building at Patuakhali:** Contractor has prepared a detailed design of the Regional Office Building at Patuakhali which has been approved by the competent authority and a letter has been issued to the Contractor for commencement of construction.

**Vertical Extension of BWDB's existing office building at Kalapara:** The Building has been completed and handed over to the competent authority.

**Rest house re-construction at Pathorghata:** Re-construction work of Rest house and Boundary Wall at Pathorghata has not started. Detailed design of the Boundary wall has been issued to the Contractor. Soil boring for the Rest house has been done and detailed design is in progress.

**Laboratory Building at Patuakhali:** The building has been handed over.

## **3.5.8 Emergency works in Polder-40/2, 41/1, 47/2 & 48:**

**Emergency work in Polder-40/2 (km 12.92 to km 12.989, km 13.215 to km 13.411 and km 13.992 to km 14.077: cost BDT 2.795 million):** Earth work in connection with emergency Ring-dyke Construction in polder-40/2 along the alignment of the damaged embankment is complete.

Placing of Geo-textile bags on the river side slope of Ring-dyke to protect the slope from wave action is complete.

**Emergency work in Polder-41/1: (km 5.139 to km 5.189):** Cost BDT 0.585 million) Dumping of earth filled Synthetic bag along the river side slope of the damaged embankment in Polder-41/1 has been completed.

The contractor collected some Geo-textile bags at site for placing on the river side Slope of embankment but the test result of the Geo-bag did not satisfy the Specification Criteria. Contractor has been instructed not to use those Geo-bags. Over all progress is 100%

**Emergency work in Polder-47/2: (km 6.168 to km 6.618):** Backing of the Embankment by earth filling is complete. Subsequent wave action needed additional temporary protection by sand filled Geo-bags and palasiding works, which has been completed.

**Emergency work in Polder-48:** (Km 31.060 to km 31.220; km 31.280 to km 31.408; km 34.305 to km 34.525): Sea dyke slope protection work by Geo-bag, Gunny bag, Bullah, Bamboo etc has been completed.

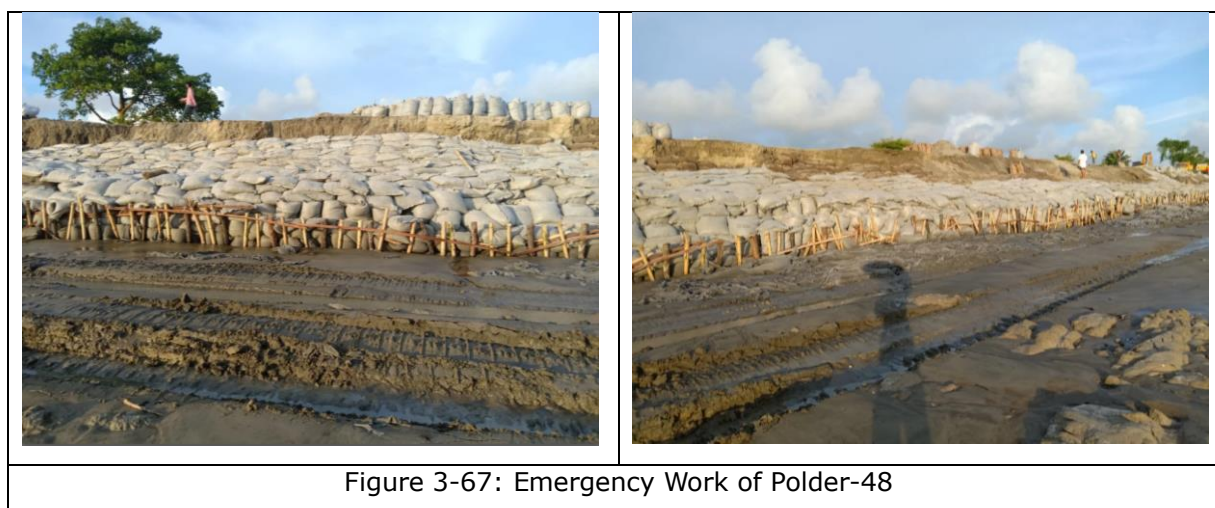


Figure 3-67: Emergency Work of Polder-48

Table 3-58: Summary of Emergency works under the head of "Environmental Mitigation Works"

Sl. No.	Name of Polder	Total Length	Total Cost Estimate (BDT)
01	Polder-39/2C	0.177	1,666,992
02	Polder-40/2	0.35	2,795,174
03	Polder-41/1	0.05	560,126
04	Polder-43/2C	0.00	0.00
05	Polder-47/2	0	6,872,990
06	Polder-48	0	0
<b>Total =</b>		<b>0.577</b>	<b>11,895,283</b>

**Total budget available as per Contract is BDT: 1,20,00000.00**

Table 3-59: Summary of Emergency works under the head of "Physical & Price Contingency"

Sl. No.	Name of Polder	Total Length	Total Cost Estimate (BDT)
01	Polder-39/2C	0.165	1,677,973
02	Polder-40/2	0	0
03	Polder-41/1	0	0
04	Polder-43/2C	0	0
05	Polder-47/2	0.156	1,058,491
06	Polder-48	0.16	1,233,611
<b>Total =</b>		<b>0.481</b>	<b>3,970,075</b>

**Total available budget as per contract: 500,000,000.00**

Table 3-60: Detailed of Emergency Works under the head of "Provisional Sum"

Sl. No.	Polder No.	Chainage		Length (Km)	Name of location	Engineer Approved Date	Estimated Cost in BDT	Remarks	Year
		From	To						
1	Polder-39/2C	54.195	54.372	0.177	Nadmulla	16-May-18	1,666,992.00	Environmental Mitigation Work (Specified Provisional Sum)	FY 2017-18
2	Polder-40/2	12.920	12.989	0.069	Tafalbaria Pathorghata	14-Nov-17	2,795,174.46	Do	FY 2017-18
3	Polder-40/2	13.215	13.411	0.196	Amount 2795174.46	14-Nov-17		Do	FY 2017-18
4	Polder-40/2	13.992	14.077	0.085	Amount 2795174.46	14-Nov-17		Do	FY 2017-18
5	Polder-41/1	5.139	5.189	0.050	Burir Char Barguna	22-Aug-17	560,125.89	Do	FY 2017-18
6	Polder-47/2	6.168	6.618	0.450	Kalapara	2-Oct-17	1,454,046.70	Do	FY 2017-18
7	Polder-47/2	6.635	6.660	0.025	Kalapara		154,515.16	Do	FY 2017-18
8	Polder-47/2	6.453	6.478	0.025	Kalapara	15-Jul-18	168,575.92	Do	FY 2017-18
9	Polder-47/2	31.28	31.408	0.128			1,418,282.41	Do	FY 2017-18
10	Polder-47/2	34.305	34.525	0.220			3,677,570.07	Do	FY 2017-18
<b>Total</b>				<b>1.425</b>			<b>11,895,282.61</b>		

Table 3-61: Detailed of Emergency Works under the head of "Physical & Price Contingency"

Sl. No.	Polder No.	Chainage		Length (Km)	Name of location	Engineer Approved Date	Estimated Cost in BDT	Remarks	Year
		From	To						
1	Polder-39/2C	0.275	0.440	0.165	Bhandaria, Bamuner Khal	24-Mar-18	1,677,973.00	Physical and Price Contingency	FY 2017-18
2	Polder-47/2	6.300	6.375	0.075	Kalapara	01-Aug-18	555,379.53	Do	FY 2017-18
3	Polder-47/2	6.550	6.592	0.042	Kalapara	01-Aug-18	290,209.45	Do	FY 2017-18
4	Polder-47/2	6.670	6.692	0.022	Kalapara	01-Aug-18	109,704.67	Do	FY 2017-18
5	Polder-47/2	6.710	6.727	0.017	Kalapara	01-Aug-18	103,196.95	Do	FY 2017-18
6	Polder-48	31.060	31.220	0.160	Kuakata		1,233,611.30	Do	FY 2017-18
<b>Total</b>				<b>0.481</b>			<b>3,970,074.90</b>		

### 3.5.9 Finance (Invoices) Contractor Package-2

IPC-01 of Contractor package-2 concerned the first instalment of the 5% Advanced payment and was paid on 28<sup>th</sup> June, 2017.

IPC-02 concerned the second instalment of the 5% Advanced payment which was approved by the Engineer and was paid on June, 2018

IPC-3 was approved by the Engineer and paid by the employer on 20<sup>th</sup> June, 2018

IPC-4 was submitted to the employer on 29<sup>th</sup> October, 2018

The Contractor has proceeded with procurement of goods and services to create the team, physical equipment and tools to start the work.

### 3.5.10 Contract Modifications

No contract modification is foreseen for the entire duration of the Contract Package-2.

### 3.5.11 S-Curve of Package-2

The revised work program has been submitted by the Contractor in October 2018. The revised work program has been reviewed by the Consultants and sent to PMU. The S-curve has been prepared by the Contractor based on the revised program and the same has been incorporated in the Monthly Progress Report of December 2018.





### 3.5.12 RAP implementation

See sections here above, Package-2.

### 3.5.13 LAP implementation

See sections here above, Package-2.

### 3.5.14 Progress on Purchase of vehicles

#### (A) Purchase of Vehicle (Pkg-2)

- a) Three number Cross Country Vehicle have been procured and delivered to the PD.
- b) Two number Pickup are in the pipeline. The program was to supply in December 2018 but as per latest information of the Contractor those may be supplied by January 2019 and after receiving those will be sent to the field.

## 3.6 Task D: Project Management Support Services

### 3.6.1 Financial Projection

No data yet were established to show financial disbursements. The preparation of October need stakeholders' discussions/deliberations to determine the figures and numbers. Disbursements of funds for IPCs are well-known and the planned future disbursements depend on the work plan works scheduling. IPC is submitted when the monetary value of the works done over a new period reaches a threshold value (percentage of the contract value). In general, during a good construction season, each IPC amount of every month to be minimum US\$ 2.50 Million and US\$ 6.60 Million for Package-1 & Package-2 respectively considering extension of time up to June 2020 for Package-1 and completion time June 2020 of Package-2 (accelerated program).

The Contractors have submitted the S-curves of Package-1 & 2 based on the revised work program, hence the financial projection will be reflected in the MPR of December 2018. The next IPCs are, however, expected by January 2019 for both packages.

#### Monthly Forecast of Payment of Package-W-02:

Table 3-62: Tentative forecast of Payment of Package-2

IPC No.	Month of Submission	Value of IPC	Remark
No.04	Oct. 2018	252,984,708.63	IPC No. 4 was submitted with the value of BDT: 252,984,708.63 which was reviewed by the Consultants and sent to PMU. The Project Director has returned back the IPC No. 4 with some observations. The IPC has been corrected based on the observations and sent to PMU with the recommendation for payment.
No.05	Dec. 2018	728,380,000.00	IPC No. 5 has been submitted by the Contractor with the value of BDT: 109,166,283.55 which is under review by the Consultants.
No.06	Jan. 2019	229,100,000.00	
No.07	Mar. 2019	442,400,000.00	
No.08	Apr. 2019	237,000,000.00	
No.09	May 2019	244,900,000.00	
No.10	Jun. 2019	244,900,000.00	
<b>Total</b>		<b>2,379,664,708.63</b>	

### 3.6.2 Modification of Consultancy Contract

Modified Consultancy Contract No.2 has been approved and signed between the Employer and the Consultants. Some local personnel have already been deployed to the sites of Contract Package-2 and other personnel will be deployed as per requirement. Modified Consultancy Contract No.3 has been submitted to the Project Director to consider for smooth running of the Project.

### 3.6.3 Support to PMU

The same support activities are being provided and enhanced as in the case of Package-1 PMS tasks.

## 3.7 Consultant Inputs

### 3.7.1 Staffing and staff changes approved or in process during the month

Table 3-63: Overview of Staffing (including Proposed Replacements)

Description of Staffs	Position	Original Staff	Current Staff	Remarks
<b>A. International Key Staff</b>	Team Leader	Jean Henry Laboyrie	Derk Jan (Dick) Kevelam	
	Design Engineer	Alec Sleigh	Arend Jan van de kerk	
	River Training Engineer	Bert te Slaa	Bert te Slaa	
	Sociologist/Resettlement Specialist	Dr. Salim Zaman	Dr. Salim Zaman	
	Quantity Surveyor - 1	Barbara Hellet	Mr. Rainier Manansala Dela Cruz	
	Construction Resident Engineer - 1	Trevor Morish Hale	Trevor Morish Hale	
	Construction Resident Engineer - 2	Gerard Pichel	Mr. Richard David Mann	
	Contract Management Specialist	Rob Brouwer	Rob Brouwer	
	Procurement Specialist	Barbara Hellet	Barbara Hellet	
	Environmental Specialist	Henk Blok	Henk Blok	
	Morphological Modeler	Henrik Rene Jensen	Henrik Rene Jensen	
<b>B. International Non-Key Staff</b>	Environmental Specialist	Anders Malgrem Hansen	Anders Malgrem Hansen	
	Quantity Surveyor - 2	Andrew Cook	Andrew Cook	
	Sociologist/Resettlement Specialist	Roy Timmer	Dr. Salim Zaman	
	Geo-Technical Engineer	Joost van der Schrier	Joost van der Schrier	
<b>A. National Key Staff</b>	Estuary and River Morphology Modeler	Bo Brahtz Christensen	Bo Brahtz Christensen	
	River and Coastal Expert	Ranjit Galappatti	Ranjit Galappatti	
	Deputy Team Leader	Md. Habibur Rahman	Md. Habibur Rahman	
	Deputy Resident Engineer - 1	Mazibur Rahman Khan	Mr. A.K.M. Sayeed Uddin	
	Deputy Resident Engineer - 2	Md. Gulzer Hossain	Mr. Mohammad Ali	
<b>A. National Non-Key Staff</b>	Re-settlement Specialist/Sociologist	Kh. Khairul Matin	Md. Zainal Abedin	
	Design Engineer	Md. Anwar Hossain Bhuiyan	Md. Anwar Hossain Bhuiyan	
	Geo-Technical Engineer	Md. Nurul Islam	Md. Nurul Islam	
	Design Engineer	Mr. Mahbubur Rahman	Mr. Mahbubur Rahman	
	Environmentalist	Sheikh Muhammad Abdur Rashid	Sheikh Muhammad Abdur Rashid	
	Sociologist/Resettlement Specialist	Md. Ferdous Rahman	Md. Ferdous Rahman	
	Geographical Information System Expert	Md. Monirul Haque	Md. Monirul Haque	
	Procurement Specialist	Md. Humayun Kabir	Md. Aminur Rahman	
	Senior Estimator - 1	Md. Ansar Ali Mia	Md. Ansar Ali Mia	
	Senior Estimator - 2	Md. Nazrul Islam	Md. Nazrul Islam	
	Survey Engineer - 1	Pankaj Kumar Moitra	Pankaj Kumar Moitra	
	Survey Engineer - 2	Md. Amirul Islam	Md. Amirul Islam	
	Survey Engineer - 3	ABM Anwar Haidar	Abu Taiub Mia	
	Junior Design Engineer - 1	Ms. Selina Akhter	Ms. Selina Akhter	
	Junior Design Engineer - 2	Ms. Shaikh Naureen Laila	Ms. Selina Akhter	
	Auto CAD Specialist - 1	Ms. Marjan Mallik	Md. Asadujjaman	
	Auto CAD Specialist - 2	Biprojit Paul	Ms. Nahid Farjana	
	River and Coastal Expert	Md.Zahirul Haque Khan	Md.Zahirul Haque Khan	
	Construction Supervision Engineer - 1	Md. Mukhlesur Rahman	Md. Mukhlesur Rahman	
	Construction Supervision Engineer - 2	Shyamal Kumar Dutta	Shyamal Kumar Dutta	
Construction Supervision Engineer - 3	SK Golam Quader	Md. Mainul Islam		
Construction Supervision Engineer - 4	Abdul Jalil	Md. Didarul Alam		

Description of Staffs	Position	Original Staff	Current Staff	Remarks
	Quality Control Specialist - 1	Md. Abdur Razzaque Khan	Md. Sheik Farid	
	Quality Control Specialist - 2	Md. Sekendar Ali	Md. Rafiqul Alam	
	Procurement / Contract Management Specialist	Md. Tafazzal Ali	Md. Aminur Rahman	
	Environmental Specialist	Dr. Quazi Alamgir Kabir	Abu Bakr Siddique	
	Resettlement Specialist/Sociologist	Md. Mustafizur Rahman	Md. Mustafizur Rahman	N/A
	Land Acquisition Officer	Benu Gopal Dey	Khandaker Mahabub Alam	
	Geo-Technical and Foundation Specialist	Mizanur Rahman	Ashraf Ul Abedin	N/A
	Mechanical Engineer - 1	Monojit Kumar Bagchi	Monojit Kumar Bagchi	N/A
	Mechanical Engineer - 2	Md. Rashidul Islam	Md. Rashidul Islam	
	Agronomist	Dr. Santosh Kumer Sarker	Dr. Santosh Kumer Sarker	N/A
	Fisheries Expert	Md. Mokammel Hossain	Md. Mokammel Hossain	N/A
	Senior Estimator - 2	Md. Nazrul Islam	Md. Nazrul Islam	N/A
	Economist	Md. Aminul Islam	Md. Aminul Islam	
	Construction Supervision Engineer - 5	Md. Sadiqul Islam (Modified Contract)	Md. Sadiqul Islam	
	Construction Supervision Engineer - 6	Md. Ghiasuddin Ahmad (Modified Contract)	Md. Ghiasuddin Ahmad	
	Quality Control Specialist - 3	Md. Ali Jinnah (Modified Contract)	Md. Ali Jinnah	
	Quality Control Specialist - 4	Md. Harun Ur Rashid (Modified Contract)	Md. Harun Ur Rashid	
<b>A. Others Staffs</b>	Field Engineer	Md. Hasibur Rahman	Md. Hasibur Rahman	
	Field Engineer	Md. Lakidul Islam	Md. Lakidul Islam	
	Field Engineer	Md. Samsul Alam -1	Md. Samsul Alam -1	
	Field Engineer	Md. Jamal Uddin	Md. Jamal Uddin	
	Field Engineer	Md. Sazzad Hossain	Md. Sazzad Hossain	
	Field Engineer	Tajuddin Ahmed	Tajuddin Ahmed	
	Field Engineer	S.M. Noor-A-Alom	S.M. Noor-A-Alom	
	Field Engineer	Khandaker Shamim Ahmed	Khandaker Shamim Ahmed	
	Field Engineer	Shakil Ahmed	Shakil Ahmed	
	Field Engineer	Md. Monirul Islam	Md. Monirul Islam	
	Field Engineer	Md. Shohel Rana	Md. Shohel Rana	
	Field Engineer	Md. Abdulla Al Mamun	Md. Abdulla Al Mamun	
	Field Engineer	Md. Mizanur Rahman	Md. Mizanur Rahman	
	Field Engineer	Joy Prokash Mondal	Joy Prokash Mondal	
	Field Engineer	Shahidul Islam	Shahidul Islam	
	Field Engineer	Md. Lutfor Rahman	Md. Lutfor Rahman	
	Office Manager	Md. Shahadat Hossain	Md. Shahadat Hossain	
	Office Manager (Khulna)	Jakir Hossen	Jakir Hossen	
	Office Manager (Patuakhali)	Mehede Hasan	Mehede Hasan	
	Accounts Officer	Md. Fazlul Karim Khan	Md. Fazlul Karim Khan	
	Office Secretary	Mahmuda Islam	Mahmuda Islam	
	Lab Technician	Md. Aminur Rahman	Md. Aminur Rahman	
	Lab Technician	Md. Kuddus Molla	Md. Kuddus Molla	
	Lab Technician	Lokshon Chandra Biswas	Lokshon Chandra Biswas	
	Computer Operator	Md. Abdulla Al Mamun	Md. Abdulla Al Mamun	
	Computer Operator	Md. Delowar Hossain	Md. Delowar Hossain	
	Computer Operator (Khulna)	Hosnewara Khatun	Hosnewara Khatun	
	Office Peon	Md. Jahangir Alam	Md. Jahangir Alam	
	Messenger	Sheikh Rabiul Islam	Sheikh Rabiul Islam	
	Chowkidar (Khulna)	Ariful Islam	Ariful Islam	
	Office Peon (Khulna)	Md. Sojib Hossen	Md. Sojib Hossen	
	Office Peon (Patuakhali)	Md. Rownaqul Islam	Md. Rownaqul Islam	
Office Peon (Patuakhali)	Md. Babul Akhther	Md. Babul Akhther		
Cleaner	Md. Shohidul Islam	Md. Shohidul Islam		

### 3.7.2 Monthly Forecast of Payment for Consultancy Services:

Tentative information on financial forecast of Payment for Consultancy Services is furnished in the Table below:

Table 3-64: Tentative information on financial of payment for DDCS & PMS Consultants

Invoice No.	Invoice Month	Submission Month	Value of Invoice (BDT)	Remarks
<b>Local Currency</b>				
LC-22	July-August 18	October 18	20,605,743.00	
LC-23	September-October 18	November 18	17,000,000.00	
LC-24	November-December 18	January 19	16,000,000.00	
LC-25	January - February 19	March 19	20,000,000.00	
LC-26	March-April 19	May 19	17,000,000.00	
LC-27	May-June 19	June 19	15,000,000.00	
<b>Total</b>			<b>105,605,743.00</b>	
<b>Foreign Currency</b>				
FC-22	July-August 18	October 18	135,136.00	
FC-23	September-October 18	November 18	135,000.00	
FC-24	November-December 18	January 19	130,000.00	
FC-25	January - February 19	March 19	140,000.00	
FC-26	March-April 19	May 19	130,000.00	
FC-27	May-June 19	June 19	130,000.00	
<b>Total</b>			<b>800,136.00</b>	

### 3.7.3 Finance (Invoices) RHDHV/DDCS&PMS Consultants

Table 3-65: Overview of Consultants Invoices since Project Inception

SI No. of Invoices	Payment in EURO			Payment in BDT		
	Amount invoiced	Date submitted	Date paid	Amount invoiced	Date submitted	Date paid
Advance Payment	481,134.90	30-Dec-14	1-Apr-15	59,249,809.60	30-Dec-14	1-Apr-15
Invoice No 1	50,908.14	25-May-15	11-Jun-15	1,119,426.94	15-June-15	16-Jun-15
Invoice No 2	129,241.61	25-May-15	11-Jun-15	5,952,195.13	17-June-15	16-Jun-15
Invoice No 3 (Part)	60,000.00	21-June-15	22-Jun-15	7,967,524.20	30-Jun-15	30-Jun-15
Invoice No 3 (Part)	70,282.49	0.00	06-Oct-15	33,150,070.88	30-Jun-15	27-Sep-15
Invoice No 4	206,972.03	27-Sep-15	02-Dec-15	14,332,732.78	27-Sep-15	29-Nov-15
Invoice No 5	169,555.53	15-Nov-15	10-Dec-15	25,991,948.77	30-Nov-15	10-Jan-16
Invoice No 6	74,062.24	17-Jan-16	04-Feb-16	14,590,698.64	03-Jan-16	27-Jun-16
Invoice No 7	201,749.51	01-June-16	30-Jun-16	15,016,503.44	19-June-16	30-Jun-16
Invoice No 8	140,967.65	01-June-16	30-Jun-16	692,718.66	19-June-16	30-Jun-16
	0.00			36,351,389.86	19-June-16	10-Nov-16 (Partly Paid)
Invoice No 9	153,881.30	30-June-16	30-Jun-16	19,138,626.07	27-Nov-16	02-Mar-17
Invoice No 10	243,824.28 <sup>1</sup>	23-Oct-16	09-Nov-16	15,095,311.81	27-Nov-16	02-Mar-17
Invoice No 11	224,255.11	06-Nov-16	1-Jun-17	15,623,144.38	07-Dec-16	18-May-17
Invoice No 12	211,748.62	15-Jan-17	1-Jun-17	51,335,041.98	15-Jan-17	18-May-17
Invoice No 13	149,954.66	10-Apr-17	1-Jun-17	25,796,446.77	16-Mar-17	18-May-17
Invoice No 14	51,073.50	3-May-17	18-Jun-17	9,847,754.23	1-Jun-17	29-Jun-17
Invoice No 15	359,744.20	16-Oct-17	10-Dec-17	18,863,496.23	29-Jun-17	29-Jun-17 (Partly Payment)
	0.00	16-Oct-17	10-Dec-17	3,123,876.54	10-Dec-17	10-Dec-17 (Partly Payment)
Invoice No. 16	82,732.65	26-Oct-17	10-Dec-17	28,318,643.89	10-Dec-17	29-Jan-18
Invoice No. 17	129,562.33	22-Nov-17	03-Dec-17	1,597,5427.00	10-Dec-17	29-Jan-18
Invoice No. 18	216,541.94	25-Feb-18	30-Apr-18	18284749.64	19-Apr-18	30-Apr-18
Invoice No. 19	126,541.94	15-Apr-18	30-Apr-18	25067376.46	19-Apr-18	30-Apr-18
Invoice No. 20	90,204.56	4-Jun-18	9-Jun-18	36,031,005.53	27-May-18	9-Jun-18
Invoice No. 21	85,705.24	21-June-18	30-June-18	18,677,806.77	30-June-18	30-June-18
Invoice No. 22	135,163.94	10-Sep-18	23-Dec-18	20,437,707.45	10-Oct-18	09-Dec-18
Invoice No. 23				127,219,58.17	20-Dec-18	
<b>Total Amount Invoiced =</b>	<b>3,845,808.37</b>			<b>536,158,710.82</b>		

<sup>1</sup> Invoice no. 10 (Not full payment)

## Annex 1: Updated Physical Site Works: Package-1

### Summary

Coastal Embankment Improvement Project, Package-1

Summary Progress of works

Progress up to: 30 December, 2018

BoQ Item	Weight	Weight (partial)	Name of Work	As per Contract		Actual			Weighed percentage	
				Quantity	Unit	Quantity	Unit	Percentage completed		
1	2	3	4	5	6	7	8	9	10	11
BoQ No. 1	General Mobilisation	0.0744							79.04%	5.884%
BoQ No. 2	Construction / Re-sectioning of Embankment	0.2172			5,877,718	cum	3,018,392	cum	51.35%	11.154%
					203.9	km	147.818	km	72.51%	
BoQ No. 3	Excavation / Re-excavation of Drainage Channel	0.0216			153.21		29.60	km	19%	0.417%
BoQ No. 4	Construction of Drainage Sluices	0.0979								7.798%
		0.0046	i) Casting Block size 40cm x 40cm x 20cm.	106,622	no.	93,405	no.	87.60%		
		0.0033	ii) Casting Block size 30cm x 30cm x 30cm.	90,649	no.	54,010	no.	59.58%		
		0.0899	Other Drainage Sluices construction works	599,819,955	BDT	479,969,020	BDT	80.0%		
BoQ No. 5	Repairing of Drainage Sluices	0.0013								0.085%
		0.0002	i) Casting Block size 40cm x 40cm x 20cm.	3,747	no.	3,283	no.	87.60%		
		0.0002	ii) Casting Block size 30cm x 30cm x 30cm.	4,911	no.	2,926	no.	59.58%		
		0.0009	Other Drainage Sluices repair works	8,401,731	BDT	5,460,732	BDT	65%		
BoQ No. 6	Construction of Flushing Inlets	0.0564								2.864%
		0.0024	i) Casting Block size 40cm x 40cm x 20cm	56,571	no.	49,558	no.	87.60%		
		0.0028	ii) Casting Block size 30cm x 30cm x 30cm	75,770	no.	45,144	no.	59.58%		
		0.0511	Other Flushing Inlets construction works	341,077,627	BDT	165,724,761	BDT	48.6%		
BoQ No. 7	Repairing of Flushing Inlets	0.0123								0.378%
		0.0008	i) Casting Block size 40cm x 40cm x 20cm.	17,425	no.	15,265	no.	87.60%		
		0.0012	ii) Casting Block size 30cm x 30cm x 30cm.	33,966	no.	20,237	no.	59.58%		
		0.0104	Other Flushing Inlets repair works	82,361,662	BDT	18,920,671	BDT	22.97%		
BoQ No. 8	Embankment Slope Protection Work	0.2145								10.757%
		0.0601	i) Casting Block size 40cm x 40cm x 40cm.	729,950	no.	534,060	no.	73.16%		
		0.1102	ii) Casting Block size 40cm x 40cm x 20cm.	2,676,451	no.	1,361,960	no.	50.89%		
			iii) Casting Block size 40cm x 40cm x 30cm.	222,844		134,859		60.52%		
		0.0442	Other Embankment Slope Protection works	21.98	km	3.740	km	17%		
BoQ No. 9	River Bank Protection Work	0.2443								18.551%
		0.0145	i) Casting Block size 40cm x 40cm x 20cm.	337,537	no.	171,762	no.	50.89%		
		0.1100	ii) Casting Block size 40cm x 40cm x 40cm.	1,335,844	no.	977,357	no.	73.16%		
		0.0836	iii) Casting Block size 30cm x 30cm x 30cm.	2,110,963	no.	1,865,497	no.	88.37%		
		0.0003	iv) Casting Block size 40cm x 40cm x 30cm.	4,800	no.	2,905	no.	60.52%		
		0.0359	Other River Bank Protection works	4,450	km	2,926	km	66%		
BoQ No. 10	Dismantling works	0.0201	0.0201	Dismantling works	133,991,406	BDT	9,768,199	BDT	7%	0.146%
BoQ No. 11	Construction of Closure Dam	0.0274	0.0274	Construction of Closure Dam	182,925,081	BDT		BDT	0%	0.000%
	Schedule of Daywork	0.0036	0.0036	Schedule of Daywork	23,712,392	BDT	1,630,315	BDT	7%	0.024%
	Environmental Mitigation Works	0.0090	0.0090		60,200,000	BDT	47,525,800		79%	0.713%
	Physical and Price Contingencies									58.771%

Overall Progress **58.77%**

**Coastal Embankment Improvement Project, Package-2**  
**Summary Progress of works**  
**Progress up to: 31 December, 2018**

BoQ Item	Weight	Weight (partial)	Name of Work	As per Contract		Actual			Weighed percentage	
				Quantity	Unit	Quantity	Unit	Percentage completed		
1	2	3	4	5	6	7	8	9	10	12
BoQ No. 1	General Mobilisation	0.0110							43.00%	0.472%
BoQ No. 2	Construction / Re-sectioning of Embankment	0.1690			7,028,144	cum	210,053	cum	2.99%	0.505%
					208.71	km	26.82	km	12.85%	
BoQ No. 3	Excavation / Re-excavation of Drainage Channel	0.0185			187.554	km	0.0	km	0%	0.00%
BoQ No. 4	Construction of Drainage Sluices	0.1464								0.63%
			0.0042	i) Casting Block size 40cm x 40cm x 20cm.	163,168	No.	975	No.	0.60%	
			0.0046	ii) Casting Block size 30cm x 30cm x 30cm.	197,111	No.	12,411	No.	6.30%	
			0.1376	Other Drainage Sluices construction works	1430783779	BDT	62,164,428	BDT	4.34%	
BoQ No. 5	Repairing of Drainage Sluices	0.0018								0.00%
			0.0003	i) Casting Block size 40cm x 40cm x 20cm.	12,365	No.	74	No.	0.60%	
			0.0005	ii) Casting Block size 30cm x 30cm x 30cm.	20,000	No.	1,259	No.	6.30%	
			0.0010	Other Drainage Sluices repair works	10,048,351	BDT	8,527	BDT	0%	
BoQ No. 6	Construction of Flushing Inlets	0.0803								0.90%
			0.0030	i) Casting Block size 40cm x 40cm x 20cm	116,089	No.	694	No.	0.60%	
			0.0022	ii) Casting Block size 30cm x 30cm x 30cm	93,295	No.	5,874	No.	6.30%	
			0.0751	Other Flushing Inlets construction works	781,373,490	BDT	91,998,435	BDT	11.77%	
BoQ No. 7	Repairing of Flushing Inlets	0.0016								0.00%
			0.0002	i) Casting Block size 40cm x 40cm x 20cm.	6,390	No.	38	No.	0.60%	
			0.0005	ii) Casting Block size 30cm x 30cm x 30cm.	21,000	No.	1,322	No.	6.30%	
			0.0009	Other Flushing Inlets repair works	9,673,216	BDT	17,301.00	BDT	0.18%	
BoQ No. 8	Embankment Slope Protection Work	0.1040								1.18%
			0.0147	i) Casting Block size 40cm x 40cm x 30cm.	848,567	No.	33,073	No.	3.90%	
			0.0175	ii) Casting Block size 40cm x 40cm x 40cm.	687,279	No.	258,266	No.	37.58%	
			0.0123	ii) Casting Block size 30cm x 30cm x 30cm.	524,295	No.	0	No.	0.00%	
			0.0596	Other Embankment Slope Protection works	9.476	km	0.737	km	7.78%	
BoQ No. 9	River Bank Protection Work	0.3491								1.81%
			0.1749	i) Casting Block size 40cm x 40cm x 40cm.	3,271,866	No.	1,229,502	No.	9.44%	
			0.0116	i) Casting Block size 40cm x 40cm x 30cm.	289,981	No.	11,302	No.	3.90%	
			0.1208	iii) Casting Block size 30cm x 30cm x 30cm.	5,170,355	No.	0	No.	0.00%	
			0.0418	Other River Bank Protection works	5.395	km	0.15	km	3%	
BoQ No. 10	Dismantling Works of the Existing Sluices & Roads	0.0055		Dismantling works	50.00	Km	0.00	Km	0%	0.005%
					106.00	No.	0.00	No.	0.94%	
BoQ No. 11	Construction of Khal Crossing Closures	0.0097		Closure Dam	8.00	No.	0.00	No.	0%	0.00%
BoQ No. 12	Construction of Road Pavement over Embankment and Road Crossing Embankment	0.0706		Paved Road	51.00	km	0.00	km	0%	0.00%
BoQ No. 13	Construction of RCC Flood Wall	0.0214		RCC Flood Wall	14.00	km	0.00	km	0%	0.000%
	Schedule of Daywork	0.0049								0.000%
	Environmental Mitigation Works	0.0062			64,354,491	BDT	14,651,755.00	BDT	22.77%	0.141%
	Physical and Price Contingencies				500,000,000	BDT	3,970,075		0.79%	5.650%
Overall Progress									5.65%	

## Annex 3: Labour Influx Report

Initial information on labour influx risks, requirements and implication for work package W-01 under CEIP-1

1. PROJECT DATA		
1.1	Name of Project	Coastal Embankment Improvement Project - Phase I (P128276)
1.2	Contract Package	Package-1
1.3	Date of Commencement	January 2016
1.4	Date of Completion	January 2019
1.5	Location	Polder-32 and Polder-33 under Khulna district; & Polder-35/1; Polder-35/3 under Bagerhat District
1.6	Name and Contact Information (email/phone) of Contractor	CHWE, mainland China
1.7	Name and Contact Information (email/phone) of all sub-Contractors	Project Manager Mr. Yang Dong; No sub-contractors; about 170 Chinese labor and skilled workers influx; 01 Indian workers; local labor and foremen about 600 persons;
1.8	Type of Works (single site, linear, clustered and construction duration)	Civil engineering/hydraulic works: earthen embankment; water control sluices; river bank protection works; embankment slope protection works; closure dam; offices and site buildings; excavation of sedimented internal channels (khals); social re-forestation; single and localized sites, stand-alone site for construction of one structure or one stretch of embankment etc; These are the standard engineering interventions in a typical coastal polder in Bangladesh, since 'time immemorial'; no rocket science; a lot of manual labour work activities, for men and women both;

2. INITIAL SCREENING LABOR INFLUX REQUIREMENTS AND IMPLICATIONS		
2.1	Will the project potentially involve an influx of migrant workers? If yes, are there also foreign laborers mobilized on site?	Yes, there are Migrant workers influx at Project area, relatively small numbers and scattered all over the many construction sites; foreign laborer's yes, only Chinese, around 200 persons including middle technicians and Master of Science level engineers; The mobilization of foreign worker started in November 2015 and on ward.
2.2	Is the influx of non-local workforce significant for the local community?	Not significant because there are many stand-alone construction sites and the number of Chinese/foreign workers per stand-alone site is about 3 to 5 Chinese men; this is not disruptive for the social cohesion of the local site; local stand-alone construction sites are mostly far away from community centers (rural setting, remote sites; sluices are not located inside a community); In the camp site, there have a separate place for their living, dining. Also, police from local Thana/authority provide the security for the safety of Chinese workers. There have two or three local translators; if any problem arises, they will arrange communication with local people. Even now there is no complain from local people, mentioned that in camp site also have a register to note down



2. INITIAL SCREENING LABOR INFLUX REQUIREMENTS AND IMPLICATIONS		
		<p>to take proper action within appropriate time.</p> <p>At least certain percentage of local people would have been mobilized in civil work that would be beneficial for the local people.</p>
2.3	What are the opportunities for local laborers?	<p>Of course, there were opportunities for local worker in civil work. Local residents are poor people with virtually no mobility or transport facilities and are employed in agriculture, aquaculture and civil construction works such as road, buildings etc in 'urban' areas, mostly intermittent job contracts. There is some small business such as small shops, chicken and duck breeding/farm, aquaculture, and motorbike repair workshops etc which do not employ many people; e.g. Polder-35/1 is located 100 km away from the city of Khulna, hence not much influx from Khulna to Polder-35/1; due to few numbers of small rudimentary road tracks, there is hardly any economic traffic to the 4 Polders; one needs to cross many rivers with (small) ferries; labour market is non-existent for local laborers;</p> <p>Recently for polder-32, 294 local workers engaged for construction workers; P-33, 295 local workers; P-35/1, 591 local workers and P-35/3; 187 local workers. There are no women because, for heavy civil work women are not suitable.</p> <p>By negotiating we fixed the salary, so there is no unsatisfactory and no complain.</p>
2.4	Frequency of outsider's visit	<p>Chinese laborers are generally permanently stationed and working; they live together inside a fenced compound, with professional security guards;</p> <p>Non-local labours are regular, but they have the seasonal vacation during rainy season.</p>
2.5	Environmental sensitivity of the project site	<p>Refer to the four approved EIA Reports of the 4 Polders; in general, the close location of the border lines of the Sundarbans mangrove forest prompt the Chinese Contractor to take care/be alerted of the possible negative impacts on the water, noise, environment, biodiversity of the Sundarbans;</p>
2.6	Community experience with similar projects?	<p>Much community experience yes as all 139 coastal polders were built back in the 1970s and 1980s and had undergone many subsequent small and big interventions, emergency works, repair and recovery after huge flood disaster events etc; local laborers are fully familiar with similar types of civil engineering works;</p> <p>And also familiar with the similar movement of non-local labour because in coast region in different time different improvement work has done throughout the specific period.</p>

3. SOCIO-ECONOMIC CONSIDERATIONS		
3.1	How similar are local and migrant labour backgrounds? (cultural, religious and demographic considerations)	<p>The background particularly cultural, religious and demographic point of view is dissimilar in many ways and similar in some ways. They have different language, ethnicity, belief system even political system but it does not create any problem to perform the job or pose any risk for the project. The migrant is few in number that does</p> <p>There is no issue at all, because the non-local workers are busy in day time for work. Also, the work site is located in different place from their residence.</p> <p>No negative impact on job market because this project makes the more opportunity of job for local people.</p> <p>Group means not like two separate parts. Both local and non-local workers are working as a part of the project as like a team work.</p>

3.2	Are there increased competitions for resources (e.g. accommodation, water, food, fuel) with the local community?	Absolutely not;
3.3	Given local community characteristics any specific adverse impacts anticipated?	No adverse impact is anticipated at the moment;

4. LOCAL COMMUNITY (Please provide Polder wise description of Facilities)			
4.1	Size of Local Population	Bangladesh is highly densely populated country but the project area has lesser density. It is found from the RAP document that inside the Polder-32, 33, 35/1 and 35/3 the total population amounts to 38397, 62305, 99182 and 33075 respectively.	
4.2	Working age population and capacity (education, skills, experience)	The labour force (age between 15 and 59 year), the actual number of people available for work is 61%. The labour force includes both the employed and the unemployed. According to BBS, 30% of the people fall in the age group 1-15 year. The literacy rate in the project area roams around 58% whereas the national figure is 51.8%. The livelihood of 66.1% of people depends on agriculture activities;	
4.3	Working age population capacity	<i>Education</i>	<i>Skill</i>
		No information is available	No information
4.4	Local capacity for infrastructure, services, utilities, health (please provide a short brief)	<i>Experience</i>	
		No information	
4.4	Local capacity for infrastructure, services, utilities, health (please provide a short brief)	Inside the 4 Polders, both earthen and pucca roads are available and there are waterways also. There is academic institution, market, religious institution, local government offices, providing necessary public services to the local people. Motor bikes play important role to communicate in project areas. Auto rickshaw is main transportation vehicle; No there is no impact of these facility due to the inflow of chines people.	
4.5	Availability of accommodation, food, water (please provide a short brief)	Contractor provides adequate accommodation, water and food, protective sheds etc to their workers; Yes, these facilities are easily available for rent and consumption	

4. LOCAL COMMUNITY (Please provide Polder wise description of Facilities)		
4.6	Are there any security considerations?	Not from the local governments; Contractor is now paying for the security force mainly in work site cum residential sites.
4.7	Are there any marginalized, vulnerable, ethnic? indigenous- communities?	Some marginalized and vulnerable people are in the project side like other places of the country but there are no ethnic and indigenous groups.

5. MAINTENANCE OF OTHER LABOR RECORDS		
5.1	Is a copy of photo ID of each labourer kept with the Contractor/ Sub-contractor?	Yes. NID for local workers and visa copy for Chinese workers; no sub-contractors;
5.2	Is contact information of labour's next-of-kin kept for each labourer?	Yes. Family members are mostly close-by. Chinese contractor recruits mainly from the locality;

1. LABOR PROFILE (Please provide Polder wise information)						
<i>This data is to be collected for each Polder where civil works has commenced, and cover the regular labour, temporary labour, labour hired through sub-contractors or labour contractors / groups.</i>						
6.1	Number of laborers by sex	<i>Male</i>		<i>Female</i>	<i>Total</i>	
		1265		6	1271	
6.2	Number of laborers by skill	<i>Skilled</i>	<i>Semi-skilled</i>	<i>Unskilled</i>	<i>Total</i>	
		781	348	142	1271	
6.3	Number of laborers by origin	<i>Local (same or adjoining district)</i>	<i>Other districts</i>	<i>Other Country</i>	<i>Total</i>	
		747	397	127	1271	
6.4	Number of laborers by age	<i>18-25</i>		<i>25-50</i>	<i>Above 50</i>	<i>Total</i>
		692		565	14	1271
6.5	Source of labour	<i>Contractor</i>	<i>Subcontractor</i>	<i>Independent</i>	<i>Other</i>	<i>Total</i>
		1271	0	0	0	1271

7. FACILITIES (Please provide Polder wise description of Facilities)					
7.1	Details of labour camps	Number	Permanent/Temp.	Location	Distance from nearest village/habitation
		8	<i>Permanent</i>	Every CC block	Almost within 100m
		12	<i>Temporary</i>	yard and every work site	
7.2	Type of housing in labour camp on leased land (temporary shelters / kuchha /pukka)	Work site have temporary shelter but cc block yard has pukka house			
7.3	Is there any housing on public land like roadsides, open fields and other spaces?	No. Only housing exist inside the constructional premises.			
7.4	Is there any housing in rented accommodation in residential areas? If so, who is it rented by?	Yes, for the Chinese and Bangladeshi senior staff. Contractor rents the buildings themselves			
7.5	How many laborers have families on/near worksite?	The migrant workers do not live with their family. Sometime their family member visit here for very short time. The local worker mostly lives with their family			
7.6	Likelihood of family members accompanying (visiting)	They hardly visit the project side. Laboure's have family homes close by; daily transport is done by motorbikes or by vehicles of Contractor			
7.7	Is drinking water available on site and at the campsite?	Yes			
7.8	Are latrines and urinals provided on site and at the campsite?	Yes			
7.9	Are First Aid facilities provided on site?	Yes			
7.10	Does a doctor visit the worksite / campsite regularly?	Yes			

7.11	Is there a tie-up with a hospital or dispensary near the worksite / campsite	Yes
7.12	Is there a facility for cooking / canteen facility for all labour?	Yes
7.13	Are leisure activities / facilities available for all labour	Yes
7.14	Is transport to and from the worksite provided to labour?	Yes, for migrant labourer but no provision for unskilled local labourer.

8. SUPERVISION BY LABOR OFFICIALS		
8.1	Has the worksite / campsite been inspected by a labour official?	In 20-22 November, 2017 and 04-06 February, 2018 WB team visited the work area of CEIP-1,
8.2	How many times has the worksite / campsite been inspected by a labour official since commencement of work?	Six times since commencement from WB. From the part of PMU and BEDB, visited the woks site frequently, as per the need basis.
8.3	What documents were inspected by labour officials?	Accident /injury register, salary sheet/record
8.4	What documents were maintained and which ones were not?	Safety training record, accident register, safety guideline document, compliance register, GRM system notice. Nothing missing, if anything required please give us the valuables suggestion. We will ensure it in work site.
8.5	What directions were given by labour officials?	About personal health and safety
8.6	What are the directions? Mode of compliance with such	Action taken in field level as soon as possible
8.7	Are you facing any legal proceedings on labour? issues in Labour Court/ Other?	None;

9. ACCIDENTS, EMERGENCIES AND INCIDENTS (Please provide Polder wise description of Facilities)		
9.1	What is the nature of accidents / emergencies usually occurring at a worksite like yours?	No accident so far has been taken place
9.2	Is a functioning First Aid available at the campsite / worksite?	Yes
9.3	Is functioning fire-fighting equipment available at the campsite / worksite?	Yes
9.4	Which is the nearest doctor / clinic / dispensary?	Within some kilometers, alert by mobile handphone of which the number is known to all Chinese people (Chinese medical doctor available); doctor covers the four Polders
9.5	Which is the nearest hospital?	The nearest hospital is situated at Upazila head quarter. But there some clinic or satellite clinic inside the polder. If any worker required critical services then he/she refer to Khulna or Dhaka. The contractor has own car for every camp site and CC block manufacturing site to transport he/she to Khulna or Dhaka.
9.6	Which is the nearest Police Station?	In any Polder, there is Police office close-by, within 10 km range. On the other hand, a team of 2-3 nos. police available in work camp site and cc block manufacturing site cum residential site. If required they will help us. But even no situations arise to do this.
9.7	Are details of nearest doctor / clinic / dispensary /hospital / Police station available and prominently	Yes

	displayed at worksite / campsite?	
9.8	What is the system of informing next of kin?	For the migrant worker, there is focal person to deal with the issue. The contact numbers of all workers are well documented. For the local worker, the system is same. Bengali senior staff employed by the Chinese contractor.
9.9	What is your familiarity with accident reporting	Chinese Contractor holds regular drills on procedures and protocols to enact in case of

9. ACCIDENTS, EMERGENCIES AND INCIDENTS (Please provide Polder wise description of Facilities)		
	procedures?	accidents
9.10	What is your familiarity with police reporting procedures?	We are well familiar to local police reporting system and we have their contact number and relation. So far, no such incident whereby Police is to be called upon. It is worthy to mention that Contractor site camps are secured by police protection permanently.
9.11	Is there any mechanism to address the work place Sexual Harassment of Women at the project sites?	Yes (sanctions are known to Chinese workers and their bosses). Mechanism is there. We have gender policy. There is complaint system to mitigate sexual harassment. Finally, legal step can be applied where necessary;

**Initial information on labour influx risks, requirements and implication for work package W-02 under CEIP-1**

2. PROJECT DATA		
1.1	Name of Project	Coastal Embankment Improvement Project - Phase I (CEIP-1)
1.2	Contract Package	Package-2
1.3	Date of Commencement	12 <sup>th</sup> July, 2017
1.4	Date of Completion	11 <sup>th</sup> January, 2021
1.5	Location	Polder-39/2C, Polder-40/2, Polder-41/1, Polder-43/2C, Polder-47/2 and Polder-48
1.6	Name and Contact Information (email/phone) of Contractor	Chongqing International Construction Corporation cicobangladesh@gmail.com/+8801917264485
1.7	Name and Contact Information (email/phone) of all sub-Contractors	None
1.8	Type of Works (single site, linear, clustered and construction duration)	<ol style="list-style-type: none"> <li>1. Upgrading via new construction and re-sectioning of embankments with a length of about 209km;</li> <li>2. Excavation and re-excavation of drainage channels in the Polders with a total length of about 188km;</li> <li>3. Construction of 50 drainage sluices;</li> <li>4. Repairing of 6 drainage sluices;</li> <li>5. Construction of 73 flushing sluices;</li> <li>6. Repairing of 8 flushing sluices;</li> <li>7. Construction of embankment slope protection works with a total length of some 9.5km;</li> <li>8. Construction of river bank protection works with a total length of 5.4 km;</li> <li>9. Construction of 8 Khal Closing Closures with varying widths between 35m to 60m;</li> <li>10. Dismantling of 36 drainage sluices, 70 flushing sluices and road pavement for about 50 km;</li> <li>11. Construction of RCC Flood wall with a length of about 17km;</li> <li>12. Construction of Road Pavement with a length of about 51km.</li> </ol> <p>Construction duration: 42 months</p>

3. INITIAL SCREENING LABOR INFLUX REQUIREMENTS AND IMPLICATIONS		
2.1	Will the project potentially involve an influx of migrant workers? If yes, are there also foreign laborers mobilized on site?	Yes, scattering all over the construction sites. There are no foreign labours mobilized onsite.

2.2	Is the influx of non-local workforce significant for the local community?	Yes, these benefits are typically related to economic opportunities through employment and/or training by the project, or through selling goods and services. Other benefits include the provision of local infrastructure (e.g., access roads, power or water connection) which is developed for the project and which serves the community beyond the project duration.
2.3	What are the opportunities for local laborers?	It will bring more employment opportunities to the local labours. It will improve the education status because of workers' training.
2.4	Frequency of outsider's visit	Normal
2.5	Environmental sensitivity of the project site	Fuel supply for cooking and heating, fuel storage area, by-pass road construction, sanitation, water supply and construction work.
2.6	Community experience with similar projects?	Embankment construction, Bridge construction and road pavement construction

#### 4. SOCIO-ECONOMIC CONSIDERATIONS

3.1	How similar are local and migrant labour backgrounds? (cultural, religious and demographic considerations)	The labour no matter where they from are Bangladesh citizen. They almost have the same cultural and religious background. The demographics are shifted just from one region to another and there is no change on total demographics of Bangladesh.
3.2	Are there increased competitions for resources (e.g. accommodation, water, food, fuel) with the local community?	More water, electricity, medical services, transport, education and social services will be required with the execution of works.
3.3	Given local community characteristics any specific adverse impacts anticipated?	It will bring more influx of additional population and increased pressure on accommodations and rents, increase in traffic and related accidents

#### 5. LOCAL COMMUNITY (Please provide Polder wise description of Facilities)

4.1	Size of Local Population	Polder-39/2C: 84853, Polder-40/2: 41317, Polder 41/1: 41051, Polder-43/2C: 14851, Polder-47/2: 5411, Polder-48: 26260		
4.2	Working age population and capacity (education, skills, experience)	No information		
4.3	Working age population capacity	<i>Education</i>	<i>Skill</i>	<i>Experience</i>
		No information	No information	No information
4.4	Local capacity for infrastructure, services, utilities, health (please provide a short brief)	the health centre and hospital are available in local place.		
4.5	Availability of accommodation, food, water (please provide a short brief)	Accommodation, water and food is available to the local community.		
4.6	Are there any security considerations?	Yes		

4.7	Are there any marginalized, vulnerable, ethnic, indigenous- communities?	No
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6. MAINTENANCE OF OTHER LABOR RECORDS		
5.1	Is a copy of photo ID of each labourer kept with the Contractor/ Sub-contractor?	Yes, NID for local workers and visa copy for Chinese workers; no sub-contractors;
5.2	Is contact information of labour's next-of-kin kept for each labourer?	No

7. LABOR PROFILE (Please provide Polder wise information)				
<i>This data is to be collected for each Polder where civil works has commenced, and cover the regular labour, temporary labour, labour hired through sub-contractors or labour contractors / groups.</i>				

6.1	Number of laborers by sex	Male		Female		Total
		1058		2		
6.2	Number of laborers by skill	Skilled	Semi-skilled	Unskilled		Total
		177	304	579		1060
6.3	Number of laborers by origin	Local (same or adjoining district)	Other districts	Other Country		Total
		685	375	0		1060
6.4	Number of laborers by age	18-25		25-50	Above 50	Total
		468		589	3	1060
6.5	Source of labour	Contractor	Subcontractor	Independent	Other	Total
		1060	0	0	0	1060

8. FACILITIES (Please provide Polder wise description of Facilities)					
7.1	Details of labour camps	Number	Permanent/Temp.	Location	Distance from nearest village/habitation
		5	Temporary	Near the project site	Within 1 km
7.2	Type of housing in labour camp on leased land (temporary shelters / kuchha /pukka)	Temporary shelter			
7.3	Is there any housing on public land like roadsides, open fields and other spaces?	Yes, there are housings on open field.			



7.4	Is there any housing in rented accommodation in residential areas? If so, who is it rented by?	Yes, it is rented by the Chinese Contractor as temporary shelter.
7.5	How many laborers have families on/near worksite?	No information
7.6	Likelihood of family members accompanying (visiting)	Not allowed
7.7	Is drinking water available on site and at the campsite?	Yes
7.8	Are latrines and urinals provided on site and at the campsite?	Yes
7.9	Are First Aid facilities provided on site?	Yes
7.10	Does a doctor visit the worksite / campsite regularly?	No, sometimes.
7.11	Is there a tie-up with a hospital or dispensary near the worksite / campsite	Yes
7.12	Is there a facility for cooking / canteen facility for all labour?	No
7.13	Are leisure activities / facilities available for all labour	Yes
7.14	Is transport to and from the worksite provided to labour?	Yes, for migrant labourer but no provision for unskilled local labourer.

#### 9. SUPERVISION BY LABOR OFFICIALS

8.1	Has the worksite / campsite been inspected by a labour official?	No
8.2	How many times has the worksite / campsite been inspected by a labour official since commencement of work?	None
8.3	What documents were inspected by labour officials?	None
8.4	What documents were maintained and which ones were not?	None
8.5	What directions were given by labour officials?	None
8.6	What is the mode of compliance with such directions?	None

8.7	Are you facing any legal proceedings on labour issues in Labour Court/ Other?	No
<b>10. ACCIDENTS, EMERGENCIES AND INCIDENTS (Please provide Polder wise description of Facilities)</b>		
9.1	What is the nature of accidents / emergencies usually occurring at a worksite like yours?	Drowning
9.2	Is a functioning First Aid available at the campsite / worksite?	Yes
9.3	Is functioning fire-fighting equipment available at the campsite / worksite?	Yes
9.4	Which is the nearest doctor / clinic / dispensary?	Polder-39/2C: Digital X-ray Clinic, 5 minutes by car away from the campsite, 01717-997-914, Kamrunnasar. Polder-41/1: DR. Abudus salam M.B.B.S Ex-medical officer of Barguna general hospital, clinic-sharif x-ray clinic, Dispensary mouir medical hall. Polder-47/2: 1 km from our working site to the nearest dispensary Polder-48: 100 m from our temporary camps to the nearest dispensary but the doctor and clinic are 1 km away.
9.5	Which is the nearest hospital?	Polder-39/2C: Upazila Health Complex, 5 minutes by car away from the campsite, 01735-950-462, Fakrel Islam. Polder-41/1: Barguna sader hospital Polder-47/2: 10 km from our working site to the nearest hospital. Polder-48: the nearest hospital is 3 km towards the seaside.
9.6	Which is the nearest Police Station?	Polder-39/2C: Bandarie Police staion, 5 minutes by car away from the campsite, 01713-374-337, Kamruzzaman. Polder-41/1: Barguna sader police station. Polder-47/2: 8 km from our working site to the nearest police station. Polder-48: the nearest police station is 3 km approximately around the third bridge.
9.7	Are details of nearest doctor / clinic / dispensary / hospital / Police station available and prominently displayed at worksite / campsite?	Polder-39/2C: Yes, such information shall be printed on paper and displayed at the site office. Polder-41/1: DR. Abudus salam M.B.B.S Ex-medical officer of Barguna general hospital, clinic-sharif x-ray clinic, Disppensary mouir medical hall, Barguna sader hospital, Barguna sader police station, above mentioned details information is true and they are able to respond within short period and mentioned location is very nearest to our worksite. Polder-47/2: Yes. such information shall be printed on paper and displayed at the site office. Polder-48: Yes, such information shall be printed on paper and displayed at the site office.

9.8	What is the system of informing next of kin?	A phone number chat including all the Chinese people has been distributed to all working site/ campsite, anything happening at site will be reported immediately to the person who is in charge of corresponding issue.
9.9	What is your familiarity with accident reporting procedures?	For any accident happened at site, the foreman shall report to the site office and site manager immediately, and site office shall write on the accident log book for records. Then site office shall report to the corresponded local government office.
9.10	What is your familiarity with police reporting procedures?	So far, no such incident whereby Police is to be called upon. The Contractor camps are secured by police.
9.11	Is there any mechanism to address the work place Sexual Harassment of Women at the project sites?	No, because all male workers at the project sites and no female workers.

## Annex 3: Key Performance Indicators and Targets per PAD/DPP

### Results Framework and Monitoring

Project Development Objectives															
Indicator Name	Core	Unit of Measure	Base line	Cumulative Target Values								Data Source/		Responsible for	Remarks
				YR1 14/15	YR2 15/16	YR3 16/17	YR4 17/18	YR5 18/19	YR6 19/20	YR7 20/21	End Target	Frequency	Meth.	Data Collection	
Gross area protected		1000 x ha	-	-	-	-	36.5	67.7	77.9	100.8	100.8	Annual	BWDB	M&E	
<i>Achievement</i>				-	-	-									
Direct project beneficiaries from increased resilience to climate change (number) of which female (percentage) %	X	1000 person x	0	0	0	0	230	480	530	760	760 (50%)	Annual	BWDB	M&E	
<i>Achievement</i>				0	0	0									
Increase cropping intensity		(%)	140	-	-	-	155	167	171	180	180	Annual	BWDB	M&E	
<i>Achievement</i>				-	-	-									
Contingent Emergency Appropriation		Triggered, if requested [Y/N]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BWDB	NA	
<i>Achievement</i>				NA	NA	NA									

Intermediate Results Indicators														Remarks	
Indicator Name	Core	Unit of Measure	Base line	Cumulative Target Values							Frequency	Data Source / Meth.	Responsible for Data Collection		
				YR1 14/15	YR2 15/16	YR3 16/17	YR4 17/18	YR5 18/19	YR6 19/20	YR7 20/21					End Target
Length of upgraded embankment		km	0	-	20	121	309	452	551	623	623	Annual	BWDB	M&E	
<i>Achievement</i>				-	0.8	27.9	63.55	63.55							106.12 kms in process
Drainage structures replaced and upgraded		No.	-	-	3	23	59	89	113	129	129	Annual	BWDB	M&E	
<i>Achievement</i>				-	0		20	25							3 nos. full & 29 nos. are in progress
Regulators upgraded		No.	-	-	4	28	73	106	123	134	134	Annual	BWDB	M&E	
<i>Achievement</i>				-	0	0									
Flushing inlets upgraded		No.	0	-	9	52	127	178	214	244	244	Annual	BWDB	M&E	
<i>Achievement</i>				-	0		15	18							2 no. full & 23 nos. are in progress
Length of Drainage Channels upgraded		Km	0	-	27	157	381	540	681	794	794	Annual	BWDB	M&E	
<i>Achievement</i>				-	0	11	28.80	29.60							0.80 Km
Area restored re/afforested	X	ha	-	-	-	-	-	100	200	300	300	Annual	BWDB	M&E	
<i>Achievement</i>				-	-	-									

Indicator Name	Core	Unit of Measure	Base line	Cumulative Target Values								Frequency	Data Source / Meth.	Responsible for Data Collection	Remarks	
				YR1 14/15	YR2 15/16	YR3 16/17	YR4 17/18	YR5 18/19	YR6 19/20	YR7 20/21	End Target					
Water Management Organization (WMO)		No.	0	-	-	-	1	2	3	4	4	Annual	BWDB	M&E/NGO		
<i>Achievement</i>				-	-	-										
Improved coastal monitoring		Studies	Limited data					1			2	2	Annual	BWDB	M&E	
<i>Achievement</i>		-	-													
BWDB days of training provided	X	No.	0	20	40	60	80	100	120	140	160	Annual	BWDB		Project total needs to be 140 (or PY7 should be 160).	
<i>Achievement</i>				33 (341)	33 (341)	33 (341)									Reported duration in days (plus pers-days)	
Client days of training provided - Female	X	No.	0								60	Annual	BWDB			
<i>Achievement</i>				33 (66)	33 (66)	33 (66)									Reported duration in days (plus pers-days)	
Grievance Redress Committee (GRC)		No.	0		4		10 (36)	13	17			Annual	BWDB	M&E/NGO	GRC have been formed in all 10 Polders under Package 1&2	
<i>Achievement</i>					4 (15 GRC)	4 (15 GRC)									GRC formation undertaken for all polders of Package 01. Total 147 complaints / grievances have received by GRC. Out of 147 complaints /grievances 24 complaints have been resolved at the entry level and 114 cases have resolved through investigations and formal hearing by GRC) and the rest 09 cases have been trying to resolve in the entry level by the GRC. Those for Package 02 not yet functional.	