

Our Reference No: **PMIS-PMU027**

19th December 2018

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**Subject: Integrated Urban Environmental Management in the Tonle Sap Basin Project (IUEMTSBP)
Submission Quarterly Progress Report No. 7 the period from 1st July to 30th September 2018**

Dear Excellency,

Please find the attached the **Quarterly Progress Report No. 7 (QPR)** for Integrated Urban Environmental Management in the Tonle Sap Basin Project (IUEMTSBP) covering the period between **1st July to 30th September 2018** for your kind perusal and comments. We regret the delay in submission of this report.

Thank you in advance for your kind assistance and support.

Sincerely yours,



Mr. Louis RIJK

Team Leader/Civil Engineer
PMIS Consultants (IUEMTSBP)
Korea Engineering Consultant Corp

cc: *ADB*
KECC

File: *Admin*

Encl.: *QPR No.7*



Ministry of Public Works and Transport

Integrated Urban Environmental Management in the Tonle Sap Basin Project

QUARTERLY PROGRESS REPORT NO. 7

01 July to 30 September 2018



October 2018

SUBMITTED BY_



IN JOINT VENTURE WITH_



IN ASSOCIATION WITH_



Consulting Services for Project Management and Implementation Support (PMIS, Package 1)

Integrated Urban Environmental Management in the Tonle Sap Basin Project (IUEMTSBP)

ADB LoanNo.3311-CAM (SF) / 8295-CAM (SCF) / Grant 0454-CAM--Contract No. PMU/MPWT/IUEMTSP/QCBS/16/001

INTEGRATED URBAN ENVIRONMENTAL MANAGEMENT IN THE TONLE SAP BASIN PROJECT

QUARTERLY PROGRESS REPORT No.7

01 JULY – 30 SEPTEMBER, 2018

TABLE OF CONTENTS

TABLE OF CONTENTS	I
LIST OF TABLES	II
LIST OF ANNEXES	III
ABBREVIATIONS	IV
1 EXECUTIVE SUMMARY	1
1.1 BACKGROUND	1
1.2 OVERALL PROJECT PROGRESS.....	1
1.3 CONSULTANT SERVICES	2
1.4 TARGETS FOR THE NEXT QUARTER.....	2
2 PROJECT BACKGROUND	4
2.1 BACKGROUND	4
2.2 PROJECT BASIC DATA	4
2.3 DOCUMENT.....	4
2.4 ADB REVIEW MISSIONS	5
2.4 COMPLIANCE WITH ACTIONS AGREED DURING THE SPECIAL PROJECT ADMINISTRATION MISSION.....	6
2.6 FUND UTILIZATION	9
2.7 S CURVES FOR CONTRACT AWARDS AND DISBURSEMENTS.....	11
2.8 PROCUREMENT PLAN	11
3 IMPLEMENTATION PROGRESS	13
3.1 STATUS OF PROJECT IMPLEMENTATION AND REVISED PROJECT IMPLEMENTATION SCHEDULE	13
3.2 KAMPONG CHHNANG URBAN ENVIRONMENTAL IMPROVEMENTS.....	13
3.2.1 <i>Flood Protection Embankment</i>	13
3.2.2 <i>Improved Solid Waste management</i>	14
3.3 PURSAT URBAN ENVIRONMENTAL IMPROVEMENTS.....	15
3.3.1 <i>Improvement Drainage in Pursat Town and Waste Water Treatment</i>	15
3.3.2 <i>Improved Solid Waste management</i>	16
3.4 INSTITUTIONAL DEVELOPMENT	16
3.5 TARIFF STRUCTURE TARIFF SETTING AND SUBSIDY METHODOLOGY.....	17
3.6 PUBLIC PRIVATE PARTNERSHIP DEVELOPMENT	18
4 PROJECT MANAGEMENT ARRANGEMENTS	22
4.1 PROJECT IMPLEMENTATION AND MANAGEMENT SUPPORT (PMIS) CONSULTANT.....	22
4.1.1 <i>Utilization Consultants' Inputs</i>	22
5 SAFEGUARDS	23
5.1 ENVIRONMENTAL SAFEGUARD MONITORING.....	23
5.2 MONITORING OF THE IMPLEMENTATION OF THE RESETTLEMENT AND COMPENSATION PLANS	23
5.3 SOCIAL SAFEGUARDS.....	24
5.3.1 <i>The indigenous peoples</i>	24
5.3.2 <i>Grievance Redress Mechanism (GRM)</i>	24
5.3.3 <i>Gender Action Plan</i>	24
6 PROJECT PERFORMANCE	25
7 LOAN COVENANTS	27
8 ASSESSMENT OF VALIDITY OF KEY ASSUMPTIONS AND RISKS	28
9 TARGETS FOR THE NEXT QUARTER	30

LIST OF TABLES AND FIGURES

Table 2-1 : Details of ADB Missions5
 Table 2-2 : Follow-up Actions and the Status of their Compliance6
 Table : Consolidated Status of Loan and Grant Proceeds9
 Table 2-5: Consolidated Loan Utilization10
 Table 2-6: Grant Utilization11
 Figure 2-1: L3311/L8295/G0454-CAM: Project to Date (PTD) Contract Award and (PTD) Disbursement based on revised contract award and disbursement plans11
 Table 2-7: Procurement Plan12
 Figure 3-1: Revised Implementation Schedule13
 Table 3-1: Status of planned activities with milestones as presented in the PAM18
 Table 4-1: Consultant’s Staff Inputs22

LIST OF ANNEXES

- Annex 1 : Revised Implementation Schedule
- Annex 2 : Revised Personnel Schedule
- Annex 3 : Fund Utilization
- Annex 4 : Contract Award and Disbursement Projections
- Annex 5 : Gender Action Plan Monitoring Table
- Annex 6 : Compliance with Loan Covenants
- Annex 7 : Overview of the input by Key International and National Specialists

ABBREVIATIONS

ADB	Asian Development Bank
AH	Affected household
AM	Aide Memoire
ASEAN	Association of Southeast Asian Nations
CMEI	Community Mobilization and Environmental Improvements
CSEC	Cambodia Socio-Economic Consensus
CBO	Community-based Organization
CDT	Capacity Development and Training
CMEI	Community Mobilization and Environmental Improvements
DEF	Provincial Department of Economy and Finance
MEF	Ministry of Economy and Finance
DMF	Design and monitoring framework
EA	Executing Agency
EMP	Environmental management plan
GMS	Greater Mekong Subregion
ICB	International competitive bidding
IDPoor	Identification of Poor Households Programme
IEC	Information, education and communication
IEE	Initial environmental examination
JICA	Japan International Cooperation Agency
MEF	Ministry of Economy and Finance
MOE	Ministry of Environment
MOWRAM	Ministry of Water Resources and Meteorology
MPWT	Ministry of Public Works and Transport
NCB	national competitive bidding
NGOs	Nongovernment organizations
OJT	On-the-job training
O&M	Operation and maintenance
PAM	Project administration manual
PDPWT	Provincial departments of public works and transport
PIU	Project implementation unit
PMIS	Project management and implementation support
PMU	Project management unit
PPCR	Pilot program for climate resilience
PMIS	Project Management Implementation and Supervision
PPP	Public Private Partnership
PSP	Private Sector Participation
RP	Resettlement plans
SWM	Solid waste management
SNA	Sub-National Authorities
SWC	Solid Waste Committee
TOR	Terms of reference
TSA	Tonle Sap Authority
UGSW	Urban Garbage and Solid Waste
USU	Urban Services Unit (Municipal)

1 EXECUTIVE SUMMARY

1.1 Background

1. The project was approved on 10 November 2015 and declared effective on 2 March 2016. The project aims to increase economic activities and environmental protection in the towns of Kampong Chhnang and Pursat in the Tonle Sap Basin. The outcome is expected to be improved urban services and enhanced climate change resilience in Kampong Chhnang and Pursat municipalities. The project has five outputs: (i) Kampong Chhnang Urban Area Improvements; (ii) Pursat Urban Area Improvements; (iii) Community Mobilization and Environmental Improvements, (iv) Strengthened Sector Coordination and Operations and (v) Strengthened Capacity for Project Implementation and operations and maintenance (O&M). The key infrastructure financed under the project includes flood protection infrastructure (embankment), construction of a new landfill facility and improvement of solid waste management and community-driven environmental improvements in Kampong Chhnang; and improvement of the storm water drainage, treatment of waste water, construction of a new landfill facility improvement of solid waste management and community-driven environmental improvements in Pursat. The planned improvements of the river embankment along the Tonle Sap have been cancelled as these improvements will be financed under an EU financed project.

1.2 Overall Project Progress

2. The overall physical progress of project implementation can be summarized as follows:

Elapsed Time	36.02%
Physical Progress	16.69%
CA - Lag	22.57%
Disb. - Lag	30.76%
Project - Lag	19.33%

3. As per the revised implementation schedule (see annex 1) the actual progress is now about 7 weeks behind the planned progress at the end of this reporting period (30-09-2018)

4. The financial progress of the project can be summarized as follows.

Loan/Grant Allocation	46,785,952
Contracts Awarded	5,798,909
Uncontracted Loan Balance	40,987,043
Contracts Disbursed	2,270,162
Undisbursed Loan Balance	44,515,790
Undisbursed Contract Balance	3,528,747

Kampong Chhnang Urban Environmental Improvements

Flood Protection Embankment	The detailed engineering design for the Kampong Chhnang embankment (\$17.30m) has been completed and bidding documents prepared. However, there continue to be land acquisition and resettlement challenges, particularly on the northern and central sections of the embankment, and the sub-project remains out of compliance with involuntary resettlement and land acquisition safeguards covenants. The government will propose the way forward to the ADB by November 30, 2018. The PMIS has been instructed that all works on the Kampong Chhnang flood embankment should be suspended until the decision has been made by the government and ADB on the way forward with the sub-project.
Improved Solid Waste management	The bidding documents and invitation for bids for the landfill in Kampong Chhnang and Pursat (\$2.25m) were approved by ADB on 7 September 2018

Pursat Urban Environmental Improvements

Improvement Drainage in Pursat Town and Waste Water Treatment	The detailed design for improvement of the existing drainage system was further delayed because of the impossibility to get accurate data
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on the inverted pipe levels of the existing system as most of the manholes cannot be opened or are covered by stalls in the market area. Removing these stall without an approved compensation plan would risk noncompliance with the ADB SPS

Improved Solid Waste management The bidding documents and invitation for bids for the landfill in Kampong Chhnang and Pursat (\$2.25m) were approved by ADB on 7 September 2018

Safeguards

Environment Updating of the IEE for the project and preparation of the EMPs for the Pursat and Kampong Chhnang landfill construction has been completed and submitted to ADB for comments

Resettlement DMS/SES surveys for the Kampong Chhnang and Pursat landfills have not yet been started by GDR. For the Kampong Chhnang Flood Protection Embankment GDR has informed that there continue to be challenges in the identification and compensation of all households that have already relocated and that it is unlikely that these challenges could be resolved to bring the sub-project back into compliance.

Gender Action Plan The GAP as included in the PAM has been revised as per the latest requirements of ADB

Institutional Development

Capacity Development No feedback has been received on the draft capacity development plan presented on 29 May. Further detailed discussions with the PIUs on this plan have been scheduled for the next quarter

Establishment Urban Service Units Comments from ADB have been received on the initial note on the road map for establishment of USUs. Further support for the USU establishment by the PMIS will require a contract variation to transfer responsibilities and resources from package 3 to the PMIS contract

Operational & Financial management

Tariff Structure Tariff Setting and Subsidy Methodology No additional statistical and financial information on the proposed SWM fee categories has been made available. Further development of SWM fees and related municipal financing arrangements are scheduled for the next quarter

Private Sector Participation A detailed analysis was carried out on the participation of private sector operators in waste collection in Kampong Chhnang and Pursat, including detailed discussions with the provincial, municipal authorities and sankat representatives

1.3 Consultant Services

5. Up to the end of this reporting period, 30 September 2018, the total person months used by the International Specialists is 36.52 person-month out of a total provision of 78 person-month (53%), leaving a balance of 41.48 person-month., the total person months used by the National Specialists is 128.38 person month out of a total provision of 428 person month (30%), leaving a balance of 299.62 person month.

6. A second contract variation was approved by ADB to create a provision under the provisional sum of the contract for financing the preparation of the required domestic IEIAs. A draft 3rd contract variation will be submitted to formalize and/or include (i) formal removal of the procurement and financial management support component of the consultancy (as this function has been covered by contractual staff recruited to the PMU); (ii) the addition of technical expertise; (iii) a provision for home office inputs and (iv) urban services master plans in Kampong Chhnang and Pursat

1.4 Targets for the next quarter

7. The targets for the next quarter can be summarized as follows:

- All works on the Kampong Chhnag Flood Embankment are suspended until the Government and ADB agree on a way forward for the implementation of the embankment, expected by the end of November. Based on this agreement detailed designs, BOQ and bidding documents will have to be revised.
- Finalize the design of the Pursat drainage system and WWTP, BOQ, technical specifications and bidding documents.
- Address the comments on the EMPs for the landfill sites and finalize the EMP for the Pursat drainage system
- Provide support to GDR for the preparation of DMS/SES for the Kampong Chhnang and Pursat landfill sites and the Pursat drainage system
- Work on tariff structure, tariff setting and subsidy methodology will continue as well as the consultations and investigations of the most suitable modalities for SWM
- Finalize and approval of the PMIS contract VO3

2 PROJECT BACKGROUND

2.1 Background

8. The project was approved on 10 November 2015 and declared effective on 2 March 2016. The impact of the project will be increased economic activities and environmental protection in the two towns in the Tonle Sap Basin. The outcome will be improved urban services and enhanced climate change resilience in Kampong Chhnang and Pursat municipalities. The project has five outputs:

- (i) Kampong Chhnang Urban Area Environmental Improvements which will now comprise the improvement of flood protection for the low lying sectors in the Kampong Chhnang urban area through; (i) the rehabilitation and realignment of a 9.5 km flood protection embankment, and; (ii) the improvement of solid waste management through the proper closure of existing dumpsite and the construction of a new solid waste landfill together with the provision of the required equipment, institutional strengthening and community awareness creation. Work on the Kampong Chhnang Flood Protection Embankment is suspended until the Government and ADB reach an agreement on the way forward for the implementation of the embankment in light of the present resettlement compliance issues
- (ii) Pursat Urban Area Environmental Improvements through; (i) the improvement of the combined storm water drainage/sewerage system in the town area on the west bank of the Pursat River; (ii) the construction of a WWTP, and the construction of a new solid waste landfill site.
- (iii) Community Mobilization and Environmental Improvements, to support the Kampong Chhnang, and Pursat urban area developments through community driven environmental improvements
- (iv) Strengthened Sector Coordination and Operations and
- (v) Strengthened Capacity for Project Implementation and operation and maintenance (O&M) of urban infrastructure in general and the created infrastructure in particular.

2.2 Project Basic Data

Project Title	Integrated Urban Environmental Management in the Tonle Sap Basin Project		
Project Acronym	IUEMTBP		
Project Financing	Asian Development Bank ADF Loan	SDR 26,4M (USD 37M equivalent)	3311-CAM (SF)
	ADB Strategic Climate Fund loan	USD 5M	8295-CAM (SCF)
	ADB Strategic Climate Fund grant	USD 5M	0454-CAM (SCF)
Borrower	Kingdom of Cambodia		
Project Approval	10 November 2015	Signing of Loan	22 December 2015
Date of Effectiveness	02 March 2016	Closing Date	30 April 2023
Project Completion Date	October 2022	Overall project implementation progress	16.7%
Elapsed Period	36.2%	Revised Loan Closing Date	N/A
Progress on Contract Award and Disbursement	Contract Award	13.5%	Disbursement 5.3%
Project Executive Agency	Ministry of Public Works and Transport (MPWT)		
Project Director	H.E. Vong Pisith, Deputy Director General MPWT		
Consultant ISPMC	KECC in JV with NIRAS and associated with KCC		
Team Leader	Mr. Louis Rijk,		
Dep .Team Leader	Mr. Srey Socheat		
ADB Task Manager	Mr Sameer A. Kamal		

2.3 Document

Document Title	Quarterly Progress Report No. 07
Reporting Period	01 July to 30 September 2018
Author(s) & project role	Louis Rijk Team Leader/Municipal Engineer PIMS,

2.4 ADB Review Missions

9. Altogether ADB has fielded 5 Missions; Loan Inception Mission, Review Mission, Follow up meeting, Implementation Review Mission. During this reporting period a portfolio review mission took place which also included a general review of the project. No Aide Memoire of this mission was received. Agreements during the mission were confirmed in an email dated 4 April 2018. Details of the ADB Missions are given in the following table. 2-1

Table 2-1 : Details of ADB Missions

S. No.	Nature of Mission	Duration	Name and Designation of Participants from ADB	Total Nos. of Participants from ADB
2016				
1	Loan Inception Mission	7 to 14 December 2017	Sameer A. Kamal, Urban Development Specialist, SEUW/SERD (Mission Leader); Januar Hakim, Senior Portfolio Management Specialist, CARM; Genevieve O'Farrell, Environment Specialist, CARM; Melody F. Ovenden, Social Development (Resettlement) Specialist, SEUW/SERD; Tadeo R. Culla, Associate Social Development Officer, SEUW; Ludovina R. Balicanot, Associate Project Officer, SEUW and Sophy Ea, National Social Safeguards Specialist, Consultant.	7
2017				
1	Review Mission	15 to 27 March 2017	Sameer A. Kamal, Urban Development Specialist, SEUW/SERD (Mission Leader). Jan Hansen, Senior Country Economist, CARM (wrap-up meeting)	2
2	Follow up meeting	15 June 2017	Sameer A. Kamal, Urban Development Specialist, SEUW/SERD (Mission Leader).	1
3	Implementation Review Mission	August 25-29, 2017	Sameer A. Kamal, Urban Development Specialist / Mission Leader, Urban Development and Water Division (SEUW); Melody Ovenden, Social Development Specialist (Resettlement), Lao PDR Resident Mission (LRM); Genevieve O'Farrell, Environment Specialist (Safeguards), Cambodia Resident Mission (CARM); Chansouk Insouvanh, Social Safeguards Consultant, Lao PDR Resident Mission (LRM); and Sophy Ea, Social Safeguards Consultant, Urban Development and Water Division (SEUW). Januar Hakim, Senior Portfolio Management Specialist, CARM joined selected discussions. Linda Adams, Senior Social Development Specialist, SEUW and Ludovina Balicanot, Associate Project Officer, SEUW provided remote support	8
2018				
1	Portfolio Review Mission	4 April 2018	Vijay Padmanabhan Director Urban Development and Water Southeast Asia Department. Sameer A. Kamal, Urban Development Specialist.	2

S. No.	Nature of Mission	Duration	Name and Designation of Participants from ADB	Total Nos. of Participants from ADB
2	Implementation Review Mission	September 10-13 2018	Sameer A. Kamal, Urban Development Specialist / Mission Leader, Urban Development Urban Development Specialist, SEUW; Biswanath Debnath, Safeguards Consultant (Resettlement), SEUW; Ea Sophy, Safeguards Consultant (Resettlement), CARM; and Sethy Sour, Safeguards Consultant (Environment), CAR	4

2.4 Compliance with actions agreed during the Special Project Administration Mission

10. In the last formal Implementation Review Mission of ADB (10 to 13 September) the EA and ADB have agreed to comply with the following key follow-up actions. The current status of the follow-up actions as agreed and included in the Missions' Aide-Memoire is given in the table below.

Table 2-2 : Follow-up Actions and the Status of their Compliance

#	Actions	Lead	Agreed Due Date	Status
A. Project Management and Implementation Support (PMIS) Consultancy				
1	Submission of contract variation request to MEF and PMU for further discussion	PMIS	September 24, 2018	First draft of VO3 has been submitted
2	Submission of contract variation request to ADB	PMU	October 5, 2018	Not yet due
B. Construction of Kampong Chhnang Embankment (CW04)				
1	Proposal on way forward for embankment	PMU	November 30, 2018	Not yet due
C. Construction of Pursat and Kampong Chhnang Landfills (CW06)				
1	Submission of updated procurement plan (to combine landfills into one package under CW06)	PMU	September 14, 2018	Has been submitted
2	Issuance of bidding documents by EA	PMU	September 17, 2018	Have been issued
3	Updated EMP submitted to ADB	PMU	October 8, 2018	Ready for submission to ADB for comments
4	Submission of bid evaluation report to ADB	PMU	November 23, 2018	On target
5	Submission of DDR to GDR	PMU	November 23, 2018	PMIS can only support the preparation of the DDRs after GDR has completed the DMS/SES and provided the data to the PMIS.
6	Updated DDR and third-party report on negotiated settlements submitted to ADB	GDR	November 30, 2018	See above
7	Contract award	PMU	December 21, 2018	It is expected that it will not be possible to meet this target date because of the time required by GDR for preparation of the

				DMS/SES and land acquisition for access to the Pursat landfill
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D. Construction of Pursat Drainage System and Treatment Plant (CW05)				
1	Submission of draft bidding documents to ADB	PMU	October 1, 2018	Expected to be delayed because of design complications
2	Issuance of bidding documents (including updated EMP) by EA	PMU	October 26, 2018	See above
3	Submission of DDR to GDR	PMU	November 30, 2018	Preparation of a DDR is complex as series of consultations with affected people will be needed, submission of the DDR is not expected before the end of January 2019
4	Submission of updated DDR to ADB	GDR	December 7, 2018	See above
5	Submission of bid evaluation report to ADB	PMU	February 3, 2019	Expected to be delayed
6	Contract award	PMU	March 20, 2019	Expected to be delayed

E. Community Driven Environmental Improvements (CW09)				
1	Clarification on procurement and financial management arrangements (PMU, MEF, ADB)	ADB	September 25, 2018	No data
2	First set of contract awards	PMU	December 21, 2018	Not yet due

FINANCING AND FUND UTILIZATION

2.5 Financing

The project was approved on 10 November 2015 and declared effective on 2 March 2016. Financing for the \$52.6 million project includes a SDR 26,4M (USD 37M equivalent) loan from ADB (Asian Development Fund) and \$10 million (\$5 million loan and \$5 million grant) from the Strategic Climate Fund

The following table 2-1 summarizes project financing by financier

Table 2-3: Financing by financier

Financing	
Modality and Sources	Amount (\$ million)
ADB	37
Sovereign Project loan: Asian Development Fund	37
Cofinancing	10
Strategic Climate Fund - PPCR	5
Strategic Climate Fund	5
Counterpart	5.6
Government	5.4
Others	0.2
Total	52.6

Table 2-2 presents the project investment plan for the 4 components of the project as agreed in the PAM. Changes will be required as the cost of the Pursat drainage system and WWTP is expected to amount to USD 14M, and the cost for the Kampong Chhnang embankment will depend on the agreement between the Government and ADB on the way forward for the implementation of the embankment

Table 2-4 : Project Investment Plan (\$ million)

Item	Amount
A. Base Cost a	
1.Output 1: Kampong Chhnang Urban Area Improvements	22.9
2.Output 2: Pursat Urban Area Improvements	11.2
3.Output 3: Community Mobilization and Environmental Improvements	4.3
4.Output 4: Strengthened Sector Coordination and Operations	0.4
5.Output 5: Strengthened Capacity for Project Implementation, O&M	5.5
Subtotal (A)	44.3
B. Contingencies	6.9
C. Financing Charges During Implementation	1.4
Total (A+B+C)	52.6

ADB = Asian Development Bank, SCF = Strategic Climate Fund

Includes taxes and duties of \$4.55 million to be financed by the government through exemptions, ADB and ADB SCF grant.

In September 2015 prices.

Physical contingencies computed at 10% for civil works, equipment and consulting services. Price contingencies computed at 1.8% to 2.2% on foreign exchange costs and 3.5% on local currency costs; includes provision for potential exchange rate fluctuations under the assumption of a purchasing power parity exchange rate.

Includes interest estimated at \$1.40 million during implementation for the ADB loan and \$0.02 million in service charge for the ADB Strategic Climate Fund loan, which will both be capitalized as part of the loans.

Source: Asian Development Bank estimates

2.6 Fund utilization

11. The following table 2.5 presents the consolidated status of loan and grant proceeds. The details of the fund utilization are presented in annex 2. The total amount of contracts awarded as a percentage of the total loan amount is 2.7%. The total disbursement as percentage of the total amount of contracts awarded is 26.5%.

Table : Consolidated Status of Loan and Grant Proceeds

As of 30 Sep 2018

Loan/Grant No.	US Dollars					
	Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
	A	B	C = A - B	D	E = A - D	F = B - D
Loan 3311	36,785,952	4,593,235	32,192,717	1,800,655	34,985,297	2,792,580
Loan 8295	5,000,000	-	5,000,000	-	5,000,000	-
Grant 0454	5,000,000	1,205,674	3,794,326	469,507	4,530,493	736,166
Total	46,785,952	5,798,909	40,987,043	2,270,162	44,515,790	3,528,747

The overall status of physical and financial progress of the project can be summarized as follows

Elapsed Time	36.02%
Physical Progress	16.69%
CA - Lag	22.57%
Disb. - Lag	30.76%
Project - Lag	19.33%

Details of fund utilization and the Contract Award and Disbursement Projections are presented in Annex 3 and 4.

Table 2-5: Consolidated Loan Utilization

		As of 30 Sep 2018					
Cat. Ref.	Category Name	US Dollars					
		Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
		A	B	C = A - B	D	E = A - D	F = B - D
01A	CW - KC Flood Protection	19,061,233	-	19,061,233	-	19,061,233	-
01B	CW - KC Solid Waste Mgt.	429,900	-	429,900	-	429,900	-
01C	CW - PS Drainage	598,790	-	598,790	-	598,790	-
01D	CW - PS Flood Protection	4,850,336	-	4,850,336	-	4,850,336	-
01E	CW - PS Solid Waste Mgt.	1,018,919	-	1,018,919	-	1,018,919	-
01F	CW - KC Small-scale Inf. Dev.	732,785	-	732,785	-	732,785	-
01G	CW - PS Small-scale Inf. Dev.	732,785	-	732,785	-	732,785	-
01A	CW - PS Drainage	2,460,000	-	2,460,000	-	2,460,000	-
01B	CW - KC Sanitation Improvement	510,000	-	510,000	-	510,000	-
01C	CW - PS Sanitation Improvement	510,000	-	510,000	-	510,000	-
02A	GD - KC Solid Waste Mgt.	729,993	-	729,993	-	729,993	-
02B	GD - PS Solid Waste Mgt	813,740	-	813,740	-	813,740	-
02C	GD - KC Embank. Manual Equipment	36,290	-	36,290	-	36,290	-
02D	GD - PS Flood Manual Equipment	36,290	-	36,290	-	36,290	-
02E	GD - PS Drainage Manual Equipment	36,290	-	36,290	-	36,290	-
03A	WS - Project Mgt & Implement Supp.	575,861	534,000	41,861	82,035	493,826	451,965
03B	WS - SSCD	9,770	-	9,770	-	9,770	-
02A	WS - NGO SCEI	200,000	-	200,000	-	200,000	-
02B	WS - CCAUD	10,000	10,000	-	-	10,000	10,000
04A	CS - PMIS	3,382,798	3,597,913	(215,115)	921,501	2,461,298	2,676,412
04B	CS - SSCD	96,309	-	96,309	-	96,309	-
04C	Survey and Investigation	62,233	135,000	(72,767)	115,350	(53,116)	19,650
03A	CS - CCAUD	200,000	200,000	-	117,898	82,102	82,102
03B	CS - NGO SCEI	810,000	829,878	(19,878)	157,609	652,391	672,269
03C	CS - Survey and Investigation	100,000	165,796	(65,796)	-	100,000	165,796
05A	IA - Office and Travel Expense	395,494	140,369	255,124	55,780	339,714	84,590
05B	IA - Vehicles	145,189	134,500	10,689	134,500	10,689	-
05C	IA - Equipment	13,660	51,453	(37,793)	41,018	(27,358)	10,435
	Interest During Implementation	1,389,048	-	1,389,048	14,472	1,374,576	(14,472)
	Service During Implementation	18,000	-	18,000	-	18,000	-
	Unallocatd	6,821,580	-	6,821,580	-	6,821,580	-
99	Imprest Account	(1,341)	-	(1,341)	630,000	(631,341)	(630,000)
				-		-	-
	Total	46,785,952	5,798,909	40,987,043	2,270,162	44,515,790	3,528,747
		36,785,952	4,593,235	32,192,717	1,800,655	34,985,297	2,792,580

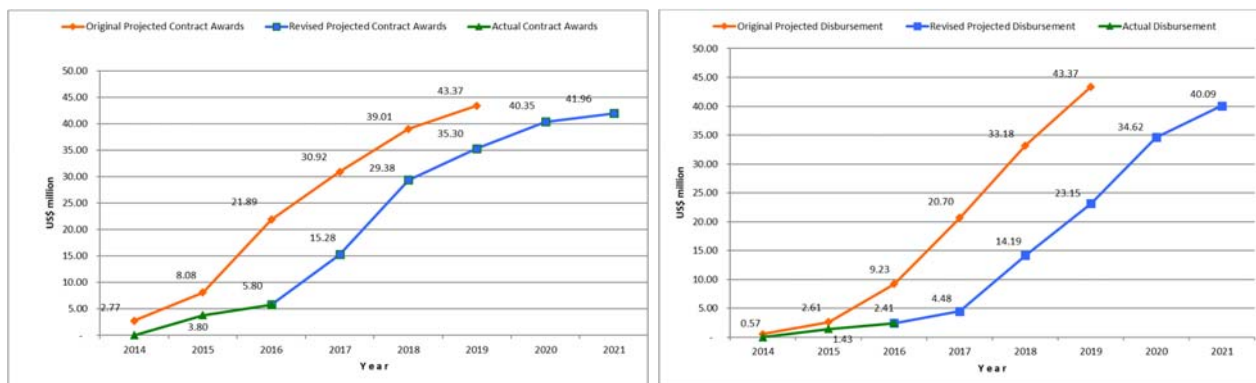
Table 2-6: Grant Utilization

Cat. Ref.	Category Name	US Dollars					
		Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
		A	B	C = A - B	D	E = A - D	F = B - D
01A	CW - PS Drainage	2,460,000	-	2,460,000	-	2,460,000	-
01B	CW - KC Sanitation Improvement	510,000	-	510,000	-	510,000	-
01C	CW - PS Sanitation Improvement	510,000	-	510,000	-	510,000	-
02A	WS - NGO SCEI	200,000	-	200,000	-	200,000	-
02B	WS - CCAUD	10,000	10,000	10,000	-	10,000	10,000
03A	CS - CCAUD	200,000	200,000	200,000	117,898	82,102	82,102
03B	CS - NGO SCEI	810,000	829,878	810,000	157,609	652,391	672,269
03C	CS - Survey and Investigation	100,000	165,796	100,000	-	100,000	165,796
04	Unallocated	200,000	-	200,000	-	200,000	-
	Advance Account	-	-	-	194,000	(194,000)	(194,000)
	Total	5,000,000	1,205,674	5,000,000	469,507	4,530,493	736,166

2.7 S curves for contract awards and disbursements

Based on the revised contract awards and disbursement schedule based on the updated work plan, the resulting s curves are presented in the following figures

Figure 2-1: L3311/L8295/G0454-CAM: Project to Date (PTD) Contract Award and (PTD) Disbursement based on revised contract award and disbursement plans



2.8 Procurement Plan

12. The following table presents the procurement plan as updated 30 September 2018. The table reflects the planning as presented in the revised implementation schedule presented in chapter 4 and Annex 1. The figures in red colour represent historic data of completed procurement

Table 2-7: Procurement Plan

#	Contract Packages	Proc. Method	Advert. Date	Award Date*
Civil Works				
G07	Supply of KC and Pursat Solid Waste Management Equipment batch 1	NCB	Q4 2019	Q1 2020
G08	Supply of Pursat Solid Waste Management Equipment Batch 2	NCB	Q3 2021	Q4 2021
CW04	Construction of KC Embankment	Will depend on the agreed way forward for the embankment		
CW05	Construction of Pursat Drainage and WWTP	ICB	Q4 2018	Q1 2019
CW06	Construction of Kampong Chhnang and Pursat Landfills	NCB	Q4 2017	Q2 2018
CW07	Construction of Pursat River Embankment Protection	Cancelled		
CW08	Construction of KC Landfill Site	Merged with CW06		
CW09	KC and Pursat Community-driven Env. Improvements	NCB		
Consulting Services				
CS01	Project Management and Implementation Support	QCBS	Q4 2015	Q4 2016
CS02	Climate Change Adaptation in Urban Development	CQS		Q3 2017
CS03	Strengthening Sector Development	Will be merged with PMIS under VO3		
CS04	NGO Support for Output 3 (CMEI)	QBS	Q3 2017	Q1 2018
Goods and Works Under \$100K				
G01	Supply of 5 units 4WD double cabin pick-up trucks	NCB	Q1 2017	Q2 2017
G02	Supply of 8 motorcycles	Shopping		Q2 2017
G03	Office furniture for PMU and PIUs (KC and Pursat)	Shopping		Q3 2017
G04	Office equipment for PMU and PIUs (KC and Pursat)	Shopping		Q3 2017
G05	Equipment for Pursat Drainage and Flood Protection	Shopping		Q1 2019
G06	Manual Equipment for KC Embankment	Will depend on the agreed way forward for the embankment		
CW01	Office Repairs (PMU)	Shopping		Q2 2017
CW02	Office Repairs (PIU KC)	Shopping		Q2 2017
CW03	Office Repairs (PIU Pursat)	Shopping		Q2 2017

3 IMPLEMENTATION PROGRESS

3.1 Status of Project Implementation and Revised Project Implementation Schedule

13. The overall progress of project implementation is estimated to be 16.7 % against and elapsed time from the date of project effectiveness of 36 %. As per the revised implementation schedule (see annex 1) the actual progress is now about 7 weeks behind the planned progress at the end of this reporting period (30-09-2018).

The summary of the revised implementation schedule is given in figure 4.1 and the detailed implementation schedule is presented in Annex 1.

Figure 3-1: Revised Implementation Schedule

PROJECT IMPLEMENTATION PROGRESS -- Loan and/or Grant Number(s): L3311 / L8295 / G0454 - CAM														Prog (%)	Wt	Total (%)											
No.	Activities	2017				2018				2019							2020				2021				2022		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
1	Project Readiness/Preparation																								2.5	2.5	
	- Loan Effectiveness																								100	1.0	1.0
	- Recruitment of PMIS Consultants																								100	0.5	0.5
	- Recruitment of PMU Staff																								100	0.5	0.5
	- Recruitment of PIU Staff																								100	0.5	0.5
2	Output 1: Kampong Chhnang Urban Environmental Improvements																								26.7	2.2	
	a. Flood Protection Embankment																								20.0	1.9	
	- Preparation/Approval Design, EMP, IEIA, RP																								90	1.5	1.4
	- Bidding Process/Contract Award																								50	1.0	0.5
	- Construction Embankment/Ancillary Works																								-	16.5	-
	- Liability Period																								-	0.5	-
	- O&M support																								-	0.5	-
	b. Improved Solid Waste Management																								6.7	0.4	
	b1. Construction Sanitary Landfill																								3.2	0.4	
	- Preparation/Approval Design, EMP, IEIA, RP																								95	0.1	0.1
	- Bidding Process/Contract Award																								90	0.3	0.3
	- Construction Landfill & Ancillary Works																								-	2.6	-
	- Liability period																								-	0.1	-
	- O&M support for SWM																								-	0.1	-
	b2. Remediation/Closure existing dump sites																								-	0.2	-
	b3. SWM Equipment Procurement																								3.3	-	
	- Procurement 1st Batch Equipment																								-	1.7	-
	- Procurement 2nd Batch Equipment																								-	1.6	-
3	Output 2: Pursat Urban Environmental Improvements																								35.1	3.0	
	a. Improvement Solid Waste Management																								9.1	0.7	
	a1. Construction Sanitary Landfill facility																								5.4	0.7	
	- Preparation/Approval Design, EMP, IEIA, RP																								95	0.5	0.5
	- Bidding Process/Contract Award																								90	0.3	0.3
	- Construction Landfill/Ancillary Works																								-	3.6	-
	- Liability Period																								-	0.5	-
	a2. Remediation/Closure existing dump sites (Cancelled)																								-	-	-
	- O&M support for SWM																								-	0.5	-
	a3. SWM Equipment Procurement																								3.7	-	
	- Procurement 1st Batch Equipment																								-	2.0	-
	- Procurement 2nd Batch Equipment																								-	1.7	-
	b. Improvement Drainage in Pursat Town and Waste Water Treatment																								26.0	2.3	
	- Preparation/Approval Design, EMP, IEIA, RP																								90	2.0	1.8
	- Bidding Process/Contract Award																								30	1.5	0.5
	- Construction Drainage & Ancillary Works																								-	21.5	-
	- Liability Period																								-	0.5	-
	-O&M Support																								-	0.5	-
4	Output 3: Community Mobilization and Environmental Improvements (CMEI)																								11.2	0.7	
	- Recruit International NGO																								100	0.4	0.4
	- Train village development committee units for project briefing and output training																								30	0.4	0.1
	- Community awareness programs																								40	0.4	0.2
	- Needs assessments for small-scale infrastructure works on CCA, sanitation																								10	0.4	0.0
	- Planning, implementing, and supervising community improvements																								-	9.4	-
	- Prepare report on community environmental improvements and lessons																								-	0.1	-
	- Internal and external monitoring of safeguard documents																								10	0.1	0.0
5	Output 4: Strengthened sector coordination and operations																								3.4	1.8	
	- Recruit and mobilize climate change resilience consultants																								100	0.5	0.5
	- Prepare, approve, establish, and strengthen USU institutions																								10	1.5	0.2
	- Review climate change and urban development documents, and sanitation standards in building codes																								90	0.8	0.7
	- Implement TSUADF, revising building codes, developing the plan for CCA																								80	0.5	0.4
	- Plan for climate change adaptation in urban areas is endorsed																								-	0.1	-
6	Output 5: Strengthened Capacity for Project Implementation, and Operations and Maintenance																								21.1	6.5	
	- Overall project management and implementation support																								26	16.0	4.2
	- NGO Support																								30	2.9	0.9
	- Procurement transportation, equipment, Office Repairs PMU & PIUs																								100	1.4	1.4
	- Recruit external resettlement monitor																								-	0.3	-
	- Develop PPMS and capacity development plan																								10	0.5	0.1
	Total																								100.0	16.7	

3.2 Kampong Chhnang Urban Environmental Improvements

3.2.1 Flood Protection Embankment

Preparation of Detailed Design, BOQ and Cost Estimate (DED)

The detailed engineering design for the Kampong Chhnang embankment has been completed and a full set of bidding documents prepared. However results/analysis of the geotechnical investigations showed that between chainage 8+000 and 9+250 the embankment is underlain with a thick layer

of soft clay which will be susceptible to consolidation settlement. Therefore, the embankment design for this section will have to be modified to improve soil stability in this part of the alignment, including the redesign of the toe section of the embankment.

The embankment can be divided into three sections; the northern section (about 1.8 km), central section (about 1.6 km) and southern section (about 5.6 km). For the northern section, where 93 households have reportedly been relocated under a provincial government initiative, GDR has informed that there continue to be challenges in the identification and compensation of all households that have already relocated. It is largely due to this reported relocation of AH in this section that the project is currently not in compliance with Schedule 5, Paragraph 10 (Land Acquisition and Involuntary Resettlement) and Schedule 5, Paragraph 15 (Safeguards Monitoring and Reporting) of the loan agreement. GDR's assessment is that it will be difficult to bring the project back into compliance. For the central section, geotechnical surveys have confirmed the presence of soft soils along the alignment of the proposed embankment, which means that the existing embankment in this section can only be strengthened by backfilling the area in front of this embankment. There would be significant challenges associated with backfilling of this area as it is presently used for dry season agriculture and backfilling operations may affect stability of about 124 stilted houses along the old embankment. Public consultations with the affected households have not commenced as of yet, and the detailed measurement surveys for these houses cannot commence until early 2019, as these areas are currently flooded. The works for southern section consists of the reconstruction of 2. km of the existing embankment, and strengthening 3.1 km of existing road embankment with limited land acquisition and a more limited number of affected households. The government will propose a way forward to the ADB by November 12, 2018. All works of PMIS on the Kampong Chhnang flood embankment should be suspended until the decision has been made by the government and ADB on the way forward with the implementation of the embankment.

Preparation of IEE & EMP	Updating of IEE and EMP has been suspended based on the decision outlined above.
Preparation of Domestic IEIA by a local consulting firm accredited with the MoE	The preparation of the domestic IEIA will for the time being not be included in the scope of services of the local consulting firm
Preparation and Implementation of a Resettlement Plan	GDR has provided DMS survey data of 47 self-relocated AHs, 46 AH that have reportedly been relocated to the resettlement area, 143 AH that have to be relocated from the embankment alignment along the Tonle Sap and 51 shop that have to be relocated from the tourist port access road. All further field survey work has been suspended pending the decision on the way forward for the embankment
Bidding Process and Contract Award	Was started with the submission of the draft bidding documents to ADB, but is now put on hold.
Construction Embankment & Ancillary Works	To be started
Liability Period	Not yet due
O&M support	

3.2.2 Improved Solid Waste management

Construction Sanitary Landfill

Preparation/Approval Design, EMP, IEIA, RP	Detailed designs, BOQ, cost estimate and technical specifications have been completed
Bidding Process/Contract Award	The bidding documents and invitation for bids for the two landfills (in Kampong Chhnang and Pursat) were approved by ADB on 7 September 2018.

Construction Landfill & Ancillary Works	To be started
Liability period	Not yet due
O&M support for SWM	
Remediation and Closure of existing dump sites	Existing dumpsites are located on private land and are the responsibility of the SWM contractors. There are legal obstacles to use public funds for improvements on private properties. Suitable closure of private dumpsites should have been a contractual responsibility of the SWM contractors.

Procurement of Equipment for SWM (collection and operation of the landfill)

Procurement 1st Batch Equipment	Delivery of the 1 st batch of SWM equipment is scheduled to coincide with the completion of construction of the controlled landfill. Discussions are ongoing with the local authorities on type and number of equipment
Procurement 2nd Batch Equipment	Procurement of the 2 nd batch of equipment is scheduled 1 year after commissioning of the landfill facility and composition of the 2 nd batch of equipment will depend on experiences obtained from the use of the 1 st batch

3.3 Pursat Urban Environmental Improvements

3.3.1 Improvement Drainage in Pursat Town and Waste Water Treatment

Preparation of Detailed Design, BOQ and Cost Estimate (DED) for improvement of the combined storm water drainage and sewerage system	The detailed design for the improvement and expansion of the combined storm water drainage and sewerage pipe network, including the incorporation of the existing pipelines has been completed. However some modifications in the alignment of the pipelines are required to avoid resettlement issues especially in the pipeline that runs along the old irrigation canal. For this purpose it will also be necessary to obtain the respective cadastral map to confirm that all pipelines are located on public land.
Preparation of Detailed Design, BOQ and Cost Estimate (DED) for the Waste Water Treatment Plant	The detailed design for the WWTP will be finalized during the next quarter. The main issue to be resolved is the levels of the different components of the treatment plant to allow the plant to operate with only one stage pumping. To ensure a safe discharge of storm water overflow, the irrigation canal will have to be reshaped up to the drainage stream crossing at a distance of about 2 km. Since the canal is under the responsibility of the Ministry of Water Resources, and agreement between the respective ministries or their provincial departments will be required for the reshaping of this section of the canal.
Preparation of IEE & EMP	Is ongoing, will be completed during the next quarter.
Preparation of Domestic IEIA by a local consulting firm accredited with the MoE	Preparation of the domestic IEIA has been started.
Preparation and Implementation of a Resettlement Plan	During the next quarter GDR will undertake a screening of the subproject to assess if a DDR or full RP is required. This mainly concerns the alignment of the pipeline along the irrigation canal and the ownership of this land (see above). It is expected that a DDR or RP can be finalized at the end of January 2019
Bidding Process and Contract Award	The detailed design, BOQ, technical specifications and bidding documents will be completed by December 2018
Liability Period	Not yet due
O&M support	It is proposed to procure jetvac equipment for the future maintenance of the drainage network. It is proposed to include this equipment could be included

in the contract package for the procurement of the 1st batch of SWM equipment

3.3.2 Improved Solid Waste management

Construction Sanitary Landfill

Preparation/Approval Design, EMP, IEIA, RP	Detailed designs, BOQ, cost estimate and technical specifications have been completed
Bidding Process/Contract Award	The bidding documents and invitation for bids for the two landfills (in Kampong Chhnang and Pursat) were approved by ADB on 7 September 2018.
Construction Landfill & Ancillary Works	To be started
Liability period	Not yet due
O&M support for SWM	
Remediation and Closure of existing dump sites	Existing dumpsites are located on private land and are the responsibility of the SWM contractors. There are legal obstacles to use public funds for improvements on private properties. Suitable closure of private dumpsites should have been a contractual responsibility of the SWM contractors.

Procurement of Equipment for SWM (collection and operation of the landfill)

Procurement 1st Batch Equipment	Delivery of the 1 st batch of SWM equipment is scheduled to coincide with the completion of construction of the controlled landfill. Discussions are ongoing with the local authorities on type and number of equipment
Procurement 2nd Batch Equipment	Procurement of the 2 nd batch of equipment is scheduled 1 year after commissioning of the landfill facility and composition of the 2 nd batch of equipment will depend on experiences obtained from the use of the 1 st batch

3.3.3 River Bank Protection for the Pursat River

41. Local authorities have informed that the proposed improvement of the Pursat river bank will now be undertaken with funding from the European Commission.

3.4 Institutional Development

Review and determine human resource requirements and training needs.	A training needs assessment has been completed
Preparation of a detailed capacity development plan for the project, catering to the needs of the PMU, PIUs, and future USUs	An initial capacity development plan has been prepared. The plan was presented. The training needs assessment and the initial capacity development plan were presented to PMU and PIU representatives in a workshop held on 29 May 2018.
Implementation of the capacity development plan	To be started after receiving feedback and comments on the initial capacity development plan.
Preparation of a road map for the establishment of USUs	An initial note on the preparation of a road map for the establishment of the USUs has been prepared. Further support on the establishment of the USUs by the PMIS can only be provided after the approval of a contract variation which will allow for the transfer of resources included in the Package 3 contract for Institutional Development to the contract for the PMIS consultant services
Preparation of a 3-year rolling corporate plan for the USUs	To be started

Support the establishment of USUs and the implementation of the corporate plan To be started

3.5 Tariff Structure Tariff Setting and Subsidy Methodology

Review of current institutional arrangements for the provision of solid waste management, flood protection, drainage and sanitation services and review contracts currently ongoing for the different operating entities in operation of urban services

An examination has been made of the Solid Waste Collection and Transportation Contracts for Kampong Chhnang and Pursat

Kampong Chhnang

The DOE has recently issued Sub-Decree No. 113 authorizing the Municipality to enter into a contract for the provision of future solid waste collection services. Contractual negotiations for 2018 are proceeding at present. Details of the Licence Agreement for 2017 and proposed new agreement for 2018 is to be provided by the Municipality.

Pursat.

On 1 January 2008 the Sampeou Meas District, Pursat Province, signed a Contract with a Solid Waste Contractor to operate the service from 1 January 2008 until 31 December 2022. However, the second Contractor has gone bankrupt and the existing service is now being carried out informally on a week to week basis by the Contractor who has an existing agreement to collect waste from the market.

Review of the financial performance of service delivery and capacity of implementing agencies regarding cost recovery, borrowing capacity, collection of fees and taxes, accounts receivable, and subsidies.

Collection of information of the budgeting processes and financial performance has been started

Development of a tariff structure, tariff setting and subsidy methodology designed to achieve financial sustainability of the related urban services.

Solid Waste Tariff Models are continuing to be developed for Pursat and Kampong Chhnang as statistical and financial information becomes available and the operational structure is developed. The projections in the Models cover the period 2019-2030 and provides for the following:

- Expenditure costings and income projections in Riel and US Dollar;
- Construction, operation and management of Landfills;
- Purchase of plant and equipment for landfill operation and solid waste collection services;
- Projected population increases and household numbers;
- Customer numbers in various categories (information still being provided)
- Staffing requirements - operational and management;
- Street sweeping expenses;
- Revenue collection efficiency;
- Waste collection efficiency
- Depreciation of assets
- Projected solid waste tariffs for the various categories (to be calculated when categories numbers are finalized);
- Estimated Profit and Loss Account.

Undertake a willingness to pay survey for solid waste collection and management and drainage services component of the targeted population.

To be started

Development of a set of performance indicators and a monitoring mechanism To be started

3.6 Public Private Partnership Development

review the existing private sector contracts in solid waste management, Detailed review of the existing contracts for SWM in Pursat and Kampong Chhnang have been reviewed and results have been presented in QPR 5.

Development of a strategy for including existing private sector into SWM Review of the available documentation was continued and several organizations were met, including the MOE, CSARO, GAEA Companies. During to Pursat and Kampong Chhnang in May 2018 discussions with PIUs, municipal governments, DOE, solid waste collectors were held. In addition, connections were established with project implementation consultants for GMS CDTP-1 and PPTA teams for GMS CDTP-4 and GMS Capacity Development for Boarder Economic Zones in Boarder Areas (TA-8989-REG), in an attempt to get to a more coordinated and uniform approach for SWM in ADB funded urban development projects.

Advise the PIUs/USUs and provincial authorities on the most viable modalities for SWM. Various modalities for PPP in SWM are being analyzed based on the discussions with the local authorities. Local authorities seem to favor the continuation of the present arrangements for SWM, under which a concession for SWM is granted to a private sector contractor on a no cost basis. The contractor is responsible for waste collection, disposal and for this service the contractor collects fees directly from the customers.

Assist the revenant authorities with the implementation of the selected modality for SWM including providing advice on procurement and O&M of SWM equipment. To be started after agreement on the preferred modality for SWM

Identification of Performance Milestones to be implemented. To be started

Table 3-1: Status of planned activities with milestones as presented in the PAM

As Planned in the PBME	Present status
1. Kampong Chhnang urban area environmental improvements	
a) Conduct topographical and soil surveys (Q1, 2017)	Topographical surveys and geotechnical investigations completed for the new landfill site. The topographical survey work for the flood embankment has been completed
b) Update feasibility study and appraisal report for ADB and government approval (Q1–Q3, 2017).	The detailed engineering design for the Kampong Chhnang embankment has been completed and a full set of bidding documents prepared. However, works have been suspended until the Government and ADB agree on a way forward for the embankment
c) Issue bids, evaluate bids, and submit to ADB for no objection (Q4, 2017–Q3, 2018).	The bidding documents and invitation for bids for the two landfills (in Kampong Chhnang and Pursat) were approved by ADB on 7 September 2018.
d) Transfer O&M and tariff collection for SWM to USU (Q4, 2017–Q2, 2018)	Delayed, PMIS will provide support for the establishment of the USUs after approval of VO3
e)	
f) Award landfill civil works contract, procure landfill equipment and construct landfill (Q2, 2018–Q3, 2019)	Contract award expected by Q1 2019 as the preparation of DDRs/RPs for the landfills is delayed. It is proposed to procure the equipment in two batches,

As Planned in the PBME	Present status
<p>g) Transfer O&M responsibilities for drainage and flood control systems to USU (Q3, 2018)</p> <p>h) Remediate old open dumpsites and construct controlled landfill (Q4, 2018–Q2, 2019)</p> <p>i) Award civil works contract and construct embankment (Q2, 2018–Q4, 2019)</p> <p>j) Dry season 1, Construct embankment segments A to C (Q1–Q3, 2019)</p> <p>k) Procure solid waste collection equipment (Q4, 2019)</p> <p>l) Hand over works of landfill site and defects liability period (Q4, 2019–Q4, 2020)</p> <p>m) Dry season 2, Construct embankment segments D to I (Q1–Q3, 2019 and Q1–Q3, 2020)</p> <p>n) Construct embankment segments I to M during higher lake levels (Q1, 2019–Q4, 2020)</p> <p>o) Road surfacing and supervision intermittent (Q1–Q2, 2020 and Q1–Q2, 2021)</p> <p>p) Handover embankment works and defects liability period (Q3,2021–Q3, 2022)</p> <p>q) Internal and external monitoring of safeguard documents (2017–2022, quarterly)</p>	<p>1st batch before completion of the landfill site and 2nd batch after one year of operation. Type and number of equipment will depend on operation modalities (force account of contract) USUs to be established, it looks like the PA will remain responsible for SWM for the time being</p> <p>No likely because of legal obstacles</p> <p>Will depend on agreement on the way forward with the embankment between the Government and ADB</p> <p>See above.</p> <p>Procurement of the first batch of SWM equipment will be scheduled to have delivery of equipment coincide with the commissioning of the landfill construction works</p> <p>On track</p> <p>Will depend on agreement on the way forward with the embankment between the Government and ADB See above</p> <p>See Above.</p> <p>See Above</p> <p>Monitoring results will be presented in the QPRs.</p>
2. Pursat urban area environmental improvements	
<p>a) Conduct topographical and soil surveys (Q1, 2017)</p> <p>b) Update feasibility study and appraisal report for ADB and government approval (Q1–Q3, 2017)</p> <p>c) Transfer O&M and tariff collection for SWM to USU (Q4, 2017–Q2, 2018)</p> <p>d) Issue bids, evaluate bids, and submit to ADB for no objection (Q4, 2017–Q2, 2018)</p> <p>e) Award contract for drainage and embankment works (Q3, 2018)</p> <p>f)</p> <p>g) Procure landfill equipment (Q2–Q3, 2018)</p> <p>h) Award contract for landfill construction (Q4, 2018)</p> <p>i) Remediate old open dumpsites and construct controlled landfill (Q4, 2018–Q3, 2019)</p>	<p>Topographical Surveys and geotechnical investigations have been completed</p> <p>Detailed designs will be completed during the next quarter. Designs have to be checked and modified to avoid resettlement issues</p> <p>PMIS will support the establishment of USUs after the approval of VO3 Contract award expected in Q4 2018</p> <p>The bidding documents and invitation for bids for the two landfills (in Kampong Chhnang and Pursat) were approved by ADB on 7 September 2018.</p> <p>Expected in Q2 2019</p> <p>It is proposed to procure the equipment in two batches, 1st batch before completion of the landfill site and 2nd batch after one year of operation. Type and number of equipment will depend on operation modalities (force account of contract)</p> <p>Expected by Q1 2019 because of delays in the preparation of DDRs/RPs for the landfills</p>

As Planned in the PBME	Present status
<ul style="list-style-type: none"> j) Construction of riverbank protection (Q3, 2018–Q2, 2019) k) Transfer O&M responsibilities for drainage and flood control systems to USU (Q3, 2018) l) Procure solid waste collection equipment (Q4, 2019) m) Hand over works for landfill and defects liability period (Q4, 2019–Q4, 2020) n) Construct drainage system starting at foot of system, construct pumping stations and WWTP with road rehabilitation as required (Q4, 2018–Q2, 2020) Update feasibility study b and appraisal report for ADB and government approval (Q1–Q3, 2017) o) Supervise start-up and commissioning of WWTP (Q3–Q4, 2020) p) Handover of drainage and embankment works and defects liability period (Q3, 2019–Q1, 2022) q) Internal and external monitoring of safeguard documents (2017–2022, quarterly) r) Internal and external monitoring of safeguard documents (2017–2022, quarterly) 	<p>Closure of existing landfill sites can only be done if ownership of these sites is transferred to the government</p> <p>Cancelled, as this will be done under EU financing</p> <p>Slippage likely as USUs have not yet be established</p> <p>See above at landfill equipment</p> <p>Target still likely to be met</p> <p>Construction will start in Q2 2019</p> <p>On track</p> <p>Improvement river embankment has been cancelled</p> <p>On track</p>
o3. Community mobilization and environmental improvements	
<ul style="list-style-type: none"> a) Recruit International NGO (Q2–Q4, 2016) b) Train village development committee units for project briefing and output training (Q2–Q3, 2017) c) Climate change adaptation and sanitation needs assessments (Q1–Q2, 2017) d) Undertake community awareness programs (Q3, 2017–Q3, 2018 and intermittent) e) Needs assessments for small-scale infrastructure works on climate change adaptation and sanitation (Q1–Q3, 2017) f) Assist in planning, implementing, and supervising community environmental improvements (Q3, 2017–Q4, 2021) g) Prepare report on community environmental improvements and lessons (Q4, 2021) h) Internal and external monitoring of safeguard documents (2017–2022, quarterly) 	<p>NGO has mobilized, Inception report will be presented during the next quarter</p> <p>NGO has carried out a detailed survey of sanitation needs for IDPoor 1 and IDPoor 2 households. The IDPoor classification does not seem to take into account if the households have a title of the plot they occupy. Improvement of household sanitation can only be provided to HH that have a title of their residential plot.</p> <p>Ongoing as part of the surveys and sanitation needs assessment.</p> <p>Needs assessment and small scale infrastructure will focus on improvement of sanitation at HH level.</p> <p>See above</p> <p>Not yet due</p> <p>NGO will contribute to the safeguard monitoring, coordination between the NGO and the PIMS for safeguard monitoring will have to be developed.</p>
4. Strengthened sector coordination and operations	
<ul style="list-style-type: none"> a) Recruit and mobilize climate change resilience consultants (Q3–Q4, 2016) b) Recruit and mobilize institutional development consultants (Q1–Q2, 2016) c) Prepare, approve, establish, and strengthen USU institutions (Q2, 2016–Q3, 2022) d) Review climate change and urban development documents, and sanitation standards in building codes (Q1, 2017) 	<p>Final report on climate resilience has been submitted</p> <p>Tasks and resources under this contract will be transferred to the PMIS under VO3</p> <p>Initial note on road map for establishment of USUs prepared by the PIMS, comments from ADB have been received. Further support by PMIS can only be provided after approval of VO3</p> <p>Final report submitted</p>

As Planned in the PBME	Present status
e) Implement TSUADF, including revising building codes and developing the plan for climate change adaptation in urban areas (Q2, 2017–Q1, 2019)	No information
f) Plan for climate change adaptation in urban areas is endorsed, including revised building codes in Tonle Sap provinces (Q4, 2018–Q1, 2019)	No information
g) National task force for urban development meetings (Q1, 2017–Q1, 2022)	No information
5. Strengthened capacity for project implementation, and O&M	
a) Appoint and update PMU and PIU members, including grievance focal points (Q1, 2016 and Q4, 2016)	Ongoing
b) Recruit and mobilize project management and implementation support consultants (Q4, 2015–Q4, 2016)	Completed
c) Recruit external resettlement monitor (Q3–Q4, 2016)	Not done
d) Develop project performance management system and capacity development plan (sex-disaggregated) (Q2, 2017)	Initial capacity building plan has been prepared and presented to the PMU and PIUs. Performance management system to be prepared
e) Undertake training programs in project and financial management, procurement, safeguards, gender mainstreaming, and others (Q1, 2017–Q1, 2022)	To be initiated
f) Submit quarterly project progress reports (1 month after each quarter, starting in Q1, 2017)	Ongoing
g) Prepare annual PPME reports (31 January, 1 month after close of calendar year)	Included in this quarterly report as only preparatory activities are ongoing, has been agreed to merge PPR and DFM data sheets for the PPME
h) Submit Government completion and post-evaluation reports on resettlement activities (Q2, 2019 and Q1, 2020)	No yet Due
i) Submit government project completion report and resettlement report (Q3, 2022)	Not yet due

4 PROJECT MANAGEMENT ARRANGEMENTS

14. MPWT is the executing agency (EA). The implementing agencies (IAs) are the Provincial Department of Public Works and Transport (PDPWT) and Municipal Governments in Kampong Chhnang and Pursat. A Project Steering Committee (PSC) has been established by MPWT although there is no report available on any meeting of the PSC. The PSC is responsible for: (i) overseeing implementation in conformity with the Project's development objectives and scope; (ii) assisting in coordination among government agencies involved in Project implementation and policy reforms (in consultation with the PCU in Phnom Penh); (iii) ensuring coordinated and efficient implementation of Project activities; (iv) monitoring the progress of achieving all outputs, in particular, measuring the development impact and outcome envisaged under the Project; and (v) provide guidance and direction towards the accomplishment of the Project's impact and outputs. The PSC is chaired by MPWT and members include representatives from Ministry of Economy and Finance (MEF), Tonle Sap Authority (TSA), MPWT, and Ministry of Land Management Urban Planning and Construction (MLMUPC).

15. A Provincial Coordinating Committee (PCC) has been established in each town to oversee the work of the PIUs. The PCC includes Provincial Governor (chair), deputy governors or municipality governors (deputy chair), select members of the provincial technical coordinating committee, and PMU project director (members), PIU manager (secretariat). There is one woman in each committee. The PCC has met in several opportunities

16. A project management unit (PMU) has been established with full time staff from MPWT. The PMU includes a Project Director, Project Manager, two Supervisory Engineers, Social and Resettlement Officer, Environment Officer, Office Manager, Procurement Officer, Accounting Officer, Assistant Accountant and Secretary/Office Assistant. It is aimed that at least 30% of the PMU staff are women. This target has not yet been achieved.

17. The project management and implementation support (PMIS) consultants is based in Phnom Penh and works directly with the PMU. The consultant team leader and PMU Procurement Officer are verifying all procurement and consulting service documents.

18. The PMU is responsible for coordinating detailed preparation and implementation of project activities. More specifically it is (i) promoting the Project to the targeted beneficiaries; (ii) assisting in subproject development and implementation; (iii) evaluating the technical, financial and economic, social, and environmental viability of proposed subprojects; (iv) undertaking Project supervision and monitoring; (v) establishing and implementing the Project Performance Management System (PPMS); (vi) preparing community action plans, bidding arrangements, and bid documents; (vii) evaluating bids; (viii) awarding and supervising construction contracts; (ix) exercising quality control; and (xi) recruiting, managing and supervising project consultants. The PMU reports directly to the General Department of Public Works (GDPW) regarding project-related matters.

19. Mr. Ya Samol, Project Engineer, was hired on April 25, 2018 for 22 person months to oversee all implementation activities under the Project Director. Mr. Samol's TOR includes close coordination on activities relating to financial management, procurement, engineering and administration with the executing and implementing agencies

20. Project Implementation Units (PIUs) are set up in Kampong Chhnang and Pursat and are operational. The PIU's are staffed jointly by the Provincial Department of Public Works and Transport and the Municipal government.

4.1 Project Implementation and Management Support (PMIS) Consultant

21. The contract with the PMIS consultants, Korea Engineering Consultants Corp. (KECC) in joint venture with NIRAS A/S and in association with Key Consultants (Cambodia) Ltd., was signed on 20 October 2016 and the consultant services were started on 17 November 2017

4.1.1 Utilization Consultants' Inputs

22. Up to the end of this reporting period, the total person-months used can be summarized as follows.

Table 4-1: Consultant's Staff Inputs

Specialists	Total p/m	p/m used	Balance	Percentage p/m used
International	78.0	36.5	47.6	39%
National	428.0	99.6	128.4	23%
Total	506.0	130.0	376.0	26%

5 SAFEGUARDS

5.1 Environmental Safeguard Monitoring

Subproject	Status/activities	Comments
Kampong Chhnang Flood Protection Embankment Construction	Preparation of EMP has been started.	All works for the embankment have been suspended until the Government and ADB agree on a way forward for the embankment implementation.
Kampong Chhnang Landfill Construction and Operation	Draft EMP has been submitted for comments	
Pursat Improvement of the Combined Storm Water and Sewerage System and Construction of the Waste Water Treatment Plant	Preparation of EMP to be started after completion of the detailed designs	Detailed design is delayed because of complications in the existing drainage network, difficulties to integrate this network in an improved system at an acceptable cost and the need to avoid resettlement issues in the design of system improvements.
Pursat Landfill Construction and Operation	Draft EMP has been submitted for comments	

5.2 Monitoring of the implementation of the Resettlement and Compensation Plans

Subproject	Status/activities	Comments
Kampong Chhnang Flood Protection Embankment Construction	DMS/SES has reportedly been completed for 51 AH in the village of Phsar Chhnang and in the Chong Koh Village of for 47 self-relocated AH, 46 AH relocated to the resettlement area and 143 AH to be relocated.	All works for the embankment have been suspended until the Government and ADB agree on a way forward for the embankment implementation
Kampong Chhnang Landfill Construction and Operation	Seems on DDR is required. Subproject screening to be done by GDR during next quarter	Detailed design is completed. Location of all AH identified. DMS/SES of AH and waste pickers to be done. GDR confirmed that no waste pickers will be allowed on the new landfill sites and that therefore alternative compensation measures will have to be identified
Pursat Improvement of the Combined Storm Water and Sewerage System and Construction of the Waste Water Treatment Plant	Seems only DDR is required. Subproject screening to be done by GDR during next quarter	Detailed layout of the drainage system has been completed and screening of the subproject will be done by GDR during the next quarter
Pursat Landfill Construction and Operation	Because of land acquisition and compensation for productive losses in the right of way of the access road a full RP will be required	Detailed design is completed Location of all AH identified, including required land acquisition DMS/SES of AH and waste pickers to be done. GDR confirmed that no waste pickers will be allowed on the new landfill sites and that therefore alternative compensation measures will have to be identified

5.3 Social Safeguards

5.3.1 The indigenous peoples

23. The indigenous peoples safeguard category for the project has been set as C. Kampong Chhnang flood embankment has direct impact on ethnic Cham. However, monitoring of the indigenous peoples safeguards in the Kampong Chhnang Flood Protection Embankment subproject has been suspended as a decision on the way forward for the implementation of the embankment is pending

5.3.2 Grievance Redress Mechanism (GRM).

24. Ministry of Economy and Finance (MEF) General Department of Resettlement (RD-MEF) have set up Provincial Resettlement Sub-Committees Working Groups (PRSC-WG) in October 2017 for Kampong Chhnang and prepared the set up for Pursat, awaiting approval of the Provincial Governor. RD-MEF has also provided guidance to the Provincial Resettlement Sub-Committees (PRSC) to operationalize Grievance Redress Mechanism (GRM) for the project in mid-October 2017.

5.3.3 Gender Action Plan

25. The Project is classified as 'Effective Gender Mainstreaming' (EGM) under the Asian Development Bank's (ADB) guidelines (March 2010). The Project impact is increased economic activities and environmental protection in towns in the Tonle Sap Basin and the outcome of the project will be improved urban services and enhanced climate change resilience in Kampong Chhnang and Pursat municipalities. A Gender Action Plan (GAP) has been prepared in accordance with ADB's Policy on Gender and Development (1998), ADB Operations Manual Section C2/BP (2010) Gender and Development in ADB Operations, and the Government's goal to strengthen the role and social status of women through capacity building for women in all sectors, changing discriminatory social attitudes, and safeguarding women's rights to actively and equally participate in nation building.

26. The Gender Action Plan includes specific gender actions to help ensure men and women actively participate in project activities, receive project information, and have access to opportunities during project implementation. There are no changes in the status of the GAP since the previous quarterly report. The GAP monitoring table is presented in annex 5.

6 PROJECT PERFORMANCE

27. The following provides a summary assessment of the likelihood of reaching the targets set out in the DMF, and areas where the DMF needs to be changed.

Design Summary	Performance Targets and Indicators with Baselines	Assessment of the Project Implementation
<p>Outcome Improved urban services and enhanced climate change resilience in Kampong Chhnang and Pursat municipalities.</p>	<p>By 2023: a. At least 100,000 residents benefit from the project in Kampong Chhnang and Pursat municipalities (2013: 42,500 residents in Kampong Chhnang and 51,400 residents in Pursat). b. Households affected by floods in Kampong Chhnang reduced by 80% (2013: 5,400 households).</p>	<p>Too early to assess</p>
<p>Outputs Outputs 1 Kampong Chhnang urban area environmental improvements</p>	<p>By 2022: (Baseline: not applicable, if not otherwise stated) 1a. At least 15.1 km of embankment and road improved and constructed to a once in 50 years frequency flood level or 1:50 year flood levels (2013: range 1:1–1:20) 1b. 365 ha of urban land in 14 villages, and 950 ha of agricultural land in 14 villages are free from flooding from Tonle Sap. 1c. About 10 ha is converted into a controlled landfill. 1d. Two open dumpsites are closed and capped. 1e. Household collection increases to at least 60% in the municipality of Kampong Chhnang (2013: 4% or 400 households)</p>	<p>Achievement of this output depends on the decision on the ways forward with the implementation of the embankment.</p> <p>Cumulative waste collection after 10 years is estimated to be between 60.000 to 80.000 tonnes, which can be accommodated in one or two landfill cells with a total area of 1 ha. The open dumpsites are located on private land. The legal implications for closing these dumpsites which would require public investment on private property, will have to be assessed</p> <p>SWM operation modalities would focus on achieving this target</p>
<p>Output 2 Pursat urban area environmental improvements</p>	<p>By 2022: (Baseline: not applicable, if not otherwise stated) 2a. At least 9.89 km of drains are improved and extended (2013: 5.64 km of drains) controlled landfill.</p>	<p>During the validation of the PPTA it was found that there are 22 km of existing drains. Inconsistent levels of the existing drains combined with deferred maintenance has resulted a partial blockage of pipes and outfalls. The detailed design focused on the improvement of the existing</p>

Design Summary	Performance Targets and Indicators with Baselines	Assessment of the Project Implementation
	<p>2f. Two open dumpsites are closed and capped (2013: 1 of 2 landfill sites is closed)</p> <p>2g. Household collection increases to at least 60% in Pursat municipality (2013: 11%)</p>	<p>pipelines but because of the inconsistent pipe levels and limited accessibility to the existing pipelines it will be necessary to install 19 km new pipelines to overcome to level problems in the existing pipelines</p> <p>The open dumpsites are located on private land. The legal implications for closing these dumpsites which would require public investment on private property, will have to be assessed</p> <p>SWM operation modalities would focus on achieving this target</p>
<p>Output 3</p> <p>Community mobilization and environmental improvements</p>	<p>By 2022: (Baseline: 0)</p> <p>3a. At least 40% of participants in output activities and training are women.</p>	<p>NGO has started community mobilization, for details refer to reporting by the NGO</p>
<p>Output 4</p> <p>Strengthened sector coordination and operations</p>	<p>By 2022: (Baseline: not applicable)</p> <p>4a. A plan for climate change adaptation in urban areas around the Tonle Sap is adopted by Tonle Sap provinces</p> <p>4b. Building codes with refined latrine standards are adopted by Tonle Sap provinces.</p> <p>4c. MPWT chairs at least two coordination meetings per year</p> <p>4d. Semi-autonomous USUs in Kampong Chhnang and Pursat municipalities are established and become operational (20% of staff are women).</p>	<p>Ongoing, no progress data available</p> <p>Ongoing, no progress data available</p> <p>Ongoing, no progress data available</p> <p>Delayed, PMIS will assume the responsibility for establishment of the USUs after approval of VO3</p>
<p>Output 4</p> <p>5. Strengthened capacity for project implementation, and operations and maintenance</p>	<p>By 2022:</p> <p>5a. At least 20% of training participants are qualified women (2013: 5%-10%)</p> <p>5b. A capacity development program is adopted by each municipality (baseline: not applicable).</p>	<p>A training needs assessment was completed and based on this assessment a capacity development plan was prepared and present during a workshop in May. No feedback on the proposals have been received so far</p>

7 LOAN COVENANTS

28. Mainly because of the 93 households that have been reportedly relocated from the kampong Chhnang flood protection embankment section along the Tonle Sap river, under a provincial government initiative, before the approval of a resettlement and compensation plan by ADB, the project remains out of compliance with Schedule 5, Paragraph 10 (Land Acquisition and Involuntary Resettlement) and Schedule 5, Paragraph 14 (Safeguards Monitoring and Reporting) of the loan agreement. GDR has reported that they have been unable to identify and arrange compensation for those households that have already relocated

29. The review of existing solid waste collection fees and the feasibility study on future waste collection fees to ensure cost recovery is ongoing (as per Schedule 5, Para 4). Apart from fees for waste collection that are directly charged to the customers by the private operators there are no other environmental fees charged in the two municipalities. The cost for drainage is funded by the PDPWT from the budget for road maintenance

30. The project performance monitoring and evaluation system is being put in place, with regular updates of the Project Performance Review and contracts tracker spreadsheets, as well as quarterly reports, being submitted to ADB (as per Schedule 5, Para 5). A summary of the covenants is presented in annex 6.

8 ASSESSMENT OF VALIDITY OF KEY ASSUMPTIONS AND RISKS

31. In the Project Design and Monitoring Framework the following risks that could adversely affect effective implementation and sustainable benefits had been identified. The present validity of those risks can be summarized as follows:

Assumptions and Risks	Validity
Outcome Improved urban services and enhanced climate change resilience in Kampong Chhnang and Pursat municipalities.	
Economic activities are adversely affected by natural disasters and lack of climate change impact mitigation. Municipalities are not prepared to collect revenues for O&M of urban infrastructure.	Detailed flood hazard modelling by MRC has shown that a 12 m level for the Kampong Chhnang flood protection embankment provides security for 50 years return period floods. The capacity for resource mobilization by Municipalities will have to be studied in more detail. Detailed designs will take into account the initial investment cost versus O&M cost of the infrastructures.
Output 1. Kampong Chhnang urban area environmental improvements	
Project start-up delays increase the number of affected people along the embankment alignment CSOs and/or NGOs raise concerns during project implementation.	GDR has informed that there continue to be challenges in the identification and compensation of all 93 households that have already relocated. It is largely due to the resettlement in this section that the project is currently not in compliance with Schedule 5, Paragraph 10 (Land Acquisition and Involuntary Resettlement) and Schedule 5, Paragraph 15 (Safeguards Monitoring and Reporting) of the loan agreement. GDR's assessment is that it will be difficult to bring the project back into compliance.
Output 2. Pursat urban area environmental improvements	
NGOs raise concerns during project implementation	The INGO under package 4 will close cooperate with local NGOs and timely address the concerns of affected people. Beneficiary population and the general population. The implementation of the stakeholder communication plan should timely address and mitigate these concerns.
Output 3. Community mobilization and environmental improvements	
CSOs and/or NGOs raise concerns during project implementation.	See above
Output 4. Strengthened sector coordination and operations	
A plan for climate change adaption will be difficult to formulate as short and midterm environmental impacts will mainly result from the flow alterations in the Mekong River, due to development activities in the upstream countries. These will cause negative effects for ecosystem productivity, and thus also for livelihoods of the inhabitants of Tonle Sap floodplain, who directly depend on the lake's natural resources. The projected changes in the dry-season water levels, estimated to increase the water level in Tonle Sap Lake by 0.15– 0.60 m, would, in particular, be harmful to the present ecosystem of the lake.	The Mekong River Commission has commissioned a study on Modelling of Future Land-Use, Infrastructure & Flood Behaviour across the Cambodian Floodplain, Tonle Sap and The Mekong Delta of Cambodia under different land use, development and climate change scenarios. A report with the results of the study is available
Output 5. Strengthened capacity for project implementation, and operations and maintenance	
Participants might not be fully receptive to the training and capacity building	A detailed training needs assessment has been initiated, with detailed consultations with all the potential recipients of training activities
Financial Management Arrangements	
Municipalities are not prepared to collect revenues for O&M of urban infrastructure.	Problems in revenue collection is being identified by the municipal financing specialists It is proposed to establish a special municipal office for collection of user fees from private and institutional users. The municipal financing

	specialists will support these units to introduce business plans to recover O&M costs for the services provided.
The project implementation units (PIUs) in Kampong Chhnang and Pursat are new entities and may have difficulty in managing project sub-accounts and adhering to accounting policies and procedures.	The PIUs will draw management staff from PDPWTs and municipalities. A PMU in the MPWT will support the PIUs in project implementation. The PMU will use a project financial management system developed under previous ADB projects, and will be responsible for all procurement. It will support the PIUs, with assistance from the PMIS consultants. A provincial coordination committee will guide the project in each town. Each PIU sub-account will have a ceiling of \$5,000. To ensure strict financial controls, each PIU will be required to liquidate every month. A late submission of liquidation (more than 10 days from the end of the month) will be grounds for suspension of the sub-account—
Fund mismanagement	The implementation arrangements are outlined in the project administration manual. All procurement will be done from within the PMU; a representative from each PIU will be invited to participate on the procurement committee. An imprest account will be established in the PMU. A sub-account will be established in each PIU, with a ceiling of \$5,000 and requirement for monthly liquidations. The proposed fund allocation also helps minimize fund mismanagement—reducing the risk to low.
Inadequate internal audit	Each government ministry has a Department of Inspectorate, whose role is to carry out the functions of an internal auditor within the ministry, and ensure that government rules and regulations are observed at all times. The MPWT has extensive experience in undertaking audits for externally financed projects. The Standard Operating Procedures for all Externally Financed Projects/Programs in Cambodia (May 2012) outline the requirements for internal audit
Inadequate external audit	The MEF will recruit an independent auditor to carry out external audits of all externally financed projects, including ADB-supported projects. The Standard Operating Procedures for all Externally Financed Projects/Programs in Cambodia (May 2012) outline the requirements for external audit

9 TARGETS FOR THE NEXT QUARTER

32. The targets for the next quarter can be summarized as follows:

Targets this quarter	Compliance	Targets next quarter
Kampong Chhnang Flood Protection Embankment Based on the decision by the Government and the ADB, finalize the detailed design, BOQ cost estimates, Technical Specifications and Bidding documents and submit these for approval to the ADB	Detailed Engineering Designs, BOQ and Technical Specifications were completed for the full embankment and draft Bidding Documents submitted to ADB for approval. However, since GDR confirmed that it is unlikely that a corrective action plan for AH already moved from the embankment alignment could be resolved to bring the project back into compliance.	The government will discuss the way forward for the Kampong Chhnang embankment and advise ADB. Meanwhile all works on the flood protection embankment have been suspended.
Pursat Drainage system. Undertake additional measurements of inverted pipe levels in the existing system and finalize the detailed design for the improvement works based on the presently working drainage simulation model. Finalize the detailed design of the proposed anaerobic WWTP with a reed bed filter.	Of the 797 manholes it was only possible to open 105 manholes/junction boxes to get information on inverted pipe levels, pipe diameter, and accumulation of sediment and waste in the pipes. The collected data shows that the problem of inaccurate levels is far more severe than originally estimated and that the accumulation of sediment and waste in the pipe system is very critical. Because of this absence of sufficient data on the existing drainage network it was difficult to finalize a design that would make optimum use of the existing network to convey drainage/ sewage water by gravity flow to the proposed WWTP.	Finalize the detailed design, BOQ, Cost Estimates, Technical Specification and Bidding Documents. It is expected that the cost for the Pursat Drainage system will exceed the budgeted amount.
Finalize the preparation of a contract variation that includes a provision for the preparation of the drainage master plans	A draft contract variation was prepared. The variation includes a provision for the preparation of urban services masterplans for Kampong Chhnang and Pursat. The total cost of the consultant's services contract will remain unchanged	Approval of the contract variation and initiate preparatory works for the preparation of the urban services masterplans
Finalize the preparation of EMPs for the Kampong Chhnang and Pursat landfills and start the preparation of the EMP for the Kampong Chhnang flood protection embankment	The detailed designs for the Landfills were on completed towards the end of the reporting period. Draft EMPs have been prepared and submitted for comments to ADB	Finalize the EMPs for the landfill subprojects and start the preparation of the EMP for the Pursat Drainage Subproject
It is expected that GDR will restart the survey work for DMS preparation for the flood embankment and landfill sites	GDR did not conduct any field level survey works during the reporting period	It is expected that GDR will complete the DMS for the landfill subprojects and the Pursat Drainage subproject. PMIS will assist with the preparation of the DRRs or RPs as required
Based on feedback from PMU and PUIs on the training needs assessment and Initial Capacity Building Plan the plan will be revised and further discussion on the implementation of the plan will	No feedback was received on the draft Capacity Building Plan Work on tariff setting and operational modalities for SWM, has continued	Finalize the review of current institutional arrangements for the provision of solid waste management, flood protection, drainage and sanitation services, contracts currently ongoing for the different

<p>with the local authorities will be scheduled</p>		<p>operating entities in operation of urban services with duration, incentives, due dates and termination conditions, the financial performance of service delivery and capacity of implementing agencies regarding cost recovery, borrowing capacity, collection of fees and taxes, accounts receivable, and subsidies, as appropriate and private sector opportunities and review the existing private sector contracts in solid waste management, including collection in both Pursat and Kampong Chhnang municipalities</p>
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Annexes

Annex 1 : Revised Implementation Schedule

ID	Task Name	Duration	Start	Finish	Prede	2016 2017 2018 2019 2020 2021 2022 2023																
						Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
34	Implementation Resettlement Plan	100 days	Thu 8/23/18	Wed 1/9/19	36SF																	
35	Tender Process (IFB, TBER, FBER with ADB Approval) Contract Award	159 days	Fri 6/1/18	Wed 1/9/19	27,3																	
36	Contractor Mobilization and Construction	645 days	Thu 1/10/19	Wed 6/30/23	35																	
37	Provisional Acceptance of Works	20 days	Thu 7/1/21	Wed 7/28/23	36																	
38	Support for O&M	282 days	Thu 7/1/21	Fri 7/29/22	36																	
39	Defects Liability Period and Final Acceptance of Works	240 days	Thu 7/29/21	Wed 6/29/23	37																	
40	Pursat Urban Area Environmental Improvements	1310 days	Mon 7/24/17	Fri 7/29/22																		
41	Improved Town Centre Drainage and Waste Water Treatment	1310 days	Mon 7/24/17	Fri 7/29/22																		
42	Improved Town Centre Drainage	1094 days	Mon 7/24/17	Thu 9/30/21																		
43	Drone mapping topographical survey works and Geotechnical Investigation	35 days	Mon 7/24/17	Fri 9/8/17																		
44	Preparation of Drainage Simulation Model	30 days	Mon 11/20/17	Fri 12/29/17																		
45	Detailed Design, BOQ, Cost Estimates and Technical Specifications	60 days	Mon 1/1/18	Fri 3/23/18	44																	
46	Resettlement Due Diligence	60 days	Mon 1/1/18	Fri 3/23/18	45SS																	
47	Preparation IEIA by a registered Cambodian firm & Approval MoE	30 days	Mon 3/26/18	Fri 5/4/18	45																	
48	Preparation of EMP	15 days	Mon 3/26/18	Fri 4/13/18	45																	
49	Preparation Bidding Documents	15 days	Mon 3/5/18	Fri 3/23/18	45FF																	
50	Tender Process (IFB, TBER, FBER with ADB Approval) Contract Award	115 days	Mon 3/26/18	Fri 8/31/18	49																	
51	Contractor Mobilization and Construction	237 days	Mon 9/3/18	Tue 7/30/19	50																	
52	Provisional Acceptance of Works	15 days	Wed 7/31/19	Tue 8/20/19	51																	
53	Support for O&M	567 days	Wed 7/31/19	Thu 9/30/21	51																	
54	Defects Liability Period and Final Acceptance of Works	263 days	Wed 8/21/19	Fri 8/21/20	52																	
55	Waste Water Treatment & Effluent/Storm Water Disposal	1218 days	Wed 11/29/17	Fri 7/29/22																		
56	Detailed Design, BOQ, Cost Estimates and Technical Specifications	88 days	Wed 11/29/17	Fri 3/30/18																		
57	Preparation of EMP	15 days	Mon 3/12/18	Fri 3/30/18	56FF																	
58	Preparation IEIA by a registered Cambodian firm & Approval MoE	90 days	Wed 11/29/17	Tue 4/3/18	56SS																	
59	Preparation/Approval Bidding Documents	15 days	Mon 4/2/18	Fri 4/20/18	56																	
60	Tender Process (IFB, TBER, FBER with ADB Approval) Contract Award	100 days	Mon 4/2/18	Fri 8/17/18	56																	
61	Contractor Mobilization and Construction	682 days	Mon 8/20/18	Tue 3/30/21	60																	
62	Provisional Acceptance of Works	15 days	Wed 3/31/21	Tue 4/20/21	61																	
63	Support for O&M	348 days	Wed 3/31/21	Fri 7/29/22	61																	
64	Defects Liability Period and Final Acceptance of Works	290 days	Wed 4/21/21	Tue 5/31/22	62																	
65	Improved Solid Waste management	1281 days	Tue 7/25/17	Tue 6/21/22																		
66	Design and Construction of New Sanitary Landfill	1281 days	Tue 7/25/17	Tue 6/21/22																		
67	Drone mapping and topographical survey works Geotechnical Investigation	44 days	Tue 7/25/17	Fri 9/22/17																		

Project: Implementation schedule Date: Tue 12/11/18	Task		Project Summary		Manual Task		Start-only		Deadline	
	Split		Inactive Task		Duration-only		Finish-only		Progress	
	Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
	Summary		Inactive Summary		Manual Summary		External Milestone			




ID	Task Name	Duration	Start	Finish	Prede	Timeline (2016-2023)											
68	Detailed Design, BOQ, Cost Estimates and Technical Specifications	105 days	Mon 9/25/17	Fri 2/16/18	67	[Gantt bar: Mon 9/25/17 to Fri 2/16/18]											
69	Preparation EIA by a registered Cambodian firm & Approval MoE	60 days	Mon 2/19/18	Fri 5/11/18	68	[Gantt bar: Mon 2/19/18 to Fri 5/11/18]											
70	Preparation of EMP	15 days	Mon 1/29/18	Fri 2/16/18	68FF	[Gantt bar: Mon 1/29/18 to Fri 2/16/18]											
71	Preparation of Bidding Documents with ADB Review	15 days	Mon 2/19/18	Fri 3/9/18	68	[Gantt bar: Mon 2/19/18 to Fri 3/9/18]											
72	Tender Process (IFB, TBER, FBER with ADB Approval) Contract Award	115 days	Mon 3/12/18	Fri 8/17/18	71	[Gantt bar: Mon 3/12/18 to Fri 8/17/18]											
73	Contractor Mobilization and Construction	500 days	Mon 8/20/18	Fri 7/17/20	72	[Gantt bar: Mon 8/20/18 to Fri 7/17/20]											
74	Provisional Acceptance of Works and Liability Period	307 days	Mon 7/20/20	Tue 9/21/21	73	[Gantt bar: Mon 7/20/20 to Tue 9/21/21]											
75	Support for Landfill Operation	502 days	Mon 7/20/20	Tue 6/21/22	73	[Gantt bar: Mon 7/20/20 to Tue 6/21/22]											
76	Final Acceptance of Works	5 days	Wed 9/22/21	Tue 9/28/21	74	[Gantt bar: Wed 9/22/21 to Tue 9/28/21]											
77	Remediation/Closure existing Dumpsites (if legally viable)	120 days	Mon 7/20/20	Fri 1/1/21	73	[Gantt bar: Mon 7/20/20 to Fri 1/1/21]											
78	Procurement Solid Waste management Equipment	850 days	Mon 9/10/18	Fri 12/10/21		[Gantt bar: Mon 9/10/18 to Fri 12/10/21]											
79	Analysis of PPP Arrangements for SWM	36 days	Mon 9/10/18	Fri 11/30/18		[Gantt bar: Mon 9/10/18 to Fri 11/30/18]											
80	Procurement first batch equipment	283 days	Wed 5/1/19	Fri 5/29/20	79	[Gantt bar: Wed 5/1/19 to Fri 5/29/20]											
81	Finalizing Type/Nos Equipment and Technical Specifications (1st Batch)	88 days	Mon 7/1/19	Wed 10/30/19		[Gantt bar: Mon 7/1/19 to Wed 10/30/19]											
82	Tender process and Contract Award	115 days	Fri 11/1/19	Thu 4/9/20	81	[Gantt bar: Fri 11/1/19 to Thu 4/9/20]											
83	Equipment Delivery	50 days	Mon 4/20/20	Fri 6/26/20	82,7	[Gantt bar: Mon 4/20/20 to Fri 6/26/20]											
84	Procurement second batch equipment	230 days	Mon 1/25/21	Fri 12/10/21		[Gantt bar: Mon 1/25/21 to Fri 12/10/21]											
85	Finalizing Type/Nos Equipment and Technical Specifications (2nd Batch)	65 days	Wed 12/23/20	Tue 3/23/21	86SF	[Gantt bar: Wed 12/23/20 to Tue 3/23/21]											
86	Tender process and Contract Award	115 days	Wed 4/14/21	Tue 9/21/21	74FF	[Gantt bar: Wed 4/14/21 to Tue 9/21/21]											
87	Equipment Delivery	50 days	Wed 9/22/21	Tue 11/30/21	86	[Gantt bar: Wed 9/22/21 to Tue 11/30/21]											
88	Riverbank Erosion Control (Cancelled, proposed flood embankment to be financed by the EU)	1 day	Fri 8/18/17	Fri 8/18/17		[Gantt bar: Fri 8/18/17 to Fri 8/18/17]											
89	Community Mobilization & Environmental Improvements	1008 days	Mon 10/2/17	Wed 8/11/22		[Gantt bar: Mon 10/2/17 to Wed 8/11/22]											
90	Recruit International NGO	67 days	Mon 10/2/17	Tue 1/2/18		[Gantt bar: Mon 10/2/17 to Tue 1/2/18]											
91	Train village development committee units for project briefing and output training	50 days	Wed 1/3/18	Tue 3/13/18	90	[Gantt bar: Wed 1/3/18 to Tue 3/13/18]											
92	Community awareness programs	50 days	Tue 2/6/18	Mon 4/16/18		[Gantt bar: Tue 2/6/18 to Mon 4/16/18]											
93	Needs assessments for small-scale infrastructure works on climate change adaptation and sanitation	76 days	Tue 2/6/18	Tue 5/22/18	92SS	[Gantt bar: Tue 2/6/18 to Tue 5/22/18]											
94	Planning, implementing, and supervising community environmental improvements	811 days	Wed 5/23/18	Wed 6/30/22	93	[Gantt bar: Wed 5/23/18 to Wed 6/30/22]											
95	Prepare report on community environmental improvements and lessons learned	30 days	Thu 7/1/21	Wed 8/11/21	94	[Gantt bar: Thu 7/1/21 to Wed 8/11/21]											
96	Internal and external safeguard monitoring	811 days	Wed 5/23/18	Wed 6/30/22	93	[Gantt bar: Wed 5/23/18 to Wed 6/30/22]											
97	Strengthening Sector Coordination and Operations	1833 days	Mon 4/4/16	Wed 4/12/22		[Gantt bar: Mon 4/4/16 to Wed 4/12/22]											
98	Climate change adaptation	1300 days	Mon 5/8/17	Fri 4/29/22		[Gantt bar: Mon 5/8/17 to Fri 4/29/22]											
99	Recruit and mobilize climate change resilience consultant	61 days	Mon 5/8/17	Mon 7/31/17		[Gantt bar: Mon 5/8/17 to Mon 7/31/17]											

Project: Implementation schedule Date: Tue 12/11/18	Task		Project Summary		Manual Task		Start-only		Deadline	
	Split		Inactive Task		Duration-only		Finish-only		Progress	
	Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
	Summary		Inactive Summary		Manual Summary		External Milestone			

Annex 2 : Revised Personnel Schedule

Annex F: Revised Personnel Schedule

NAME	POSITION		Time Input in Person/Month	Schedule																																				Revised Time Input in Person/Month	Difference (+/-)																																												
				2017												2018												2019														2020												2021												2022																			
				N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O			N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
KEY EXPERT (International)																																																																																					
Louis Rijk	Team Leader & Municipal Engineer	Field Home Office	35.00	[Schedule bars for Louis Rijk]																																				35.00	-																																												
Kim Dong Min,	Geotechnical Engineer	Field Home Office	4.00	[Schedule bars for Kim Dong Min]																																				3.50	(0.50)																																												
Herikko Kristian Torssonen,	Solid Waste Management Specialist	Field Home Office	6.00	[Schedule bars for Herikko Kristian Torssonen]																																				4.50	(1.50)																																												
Prashant Malla,	River Engineering Specialist	Field Home Office	8.00	[Schedule bars for Prashant Malla]																																				5.00	(3.00)																																												
Rachel Wildblood	Environment Specialist	Field Home Office	4.00	[Schedule bars for Rachel Wildblood]																																				2.50	(1.50)																																												
Teemu Jantunen	Social Development & Resettlement Specialist	Field Home Office	6.00	[Schedule bars for Teemu Jantunen]																																				5.50	(0.50)																																												
Kerry Maxwell Blanch,	Municipal Finance Specialist/Economist	Field Home Office	6.00	[Schedule bars for Kerry Maxwell Blanch]																																				5.50	(0.50)																																												
Eric Baye,	Private Sector Specialist	Field Home Office	3.00	[Schedule bars for Eric Baye]																																				3.00	-																																												
Clifford Claes,	Institutional Specialist	Field Home Office	6.00	[Schedule bars for Clifford Claes]																																				6.50	0.50																																												
Total (KEY EXPERT (International))				78.00																																					81.00	3.00																																											
KEY EXPERTS (National)																																																																																					
Position merged with DTL/Civil Engineer 2				33.00	[Schedule bars]																																				2.00	(31.00)																																											
Srey Socheat,	DTL/Civil Engineer-2		33.00	[Schedule bars for Srey Socheat]																																				64.00	31.00																																												
Chea Ketia	Geotechnical Engineer		12.00	[Schedule bars for Chea Ketia]																																				12.00	-																																												
Position merged with Senior Civil Engineer 2				12.00																																					0.00	(12.00)																																											
Sim Sen,	Senior Civil Engineer-2		12.00	[Schedule bars for Sim Sen]																																				24.00	12.00																																												
Mam Sanoun	Civil Engineer -River Hydrology		12.00	[Schedule bars for Mam Sanoun]																																				12.00	-																																												
Yim Mong Toeun,	Civil Engineer - Solid Waste Management		10.00	[Schedule bars for Yim Mong Toeun]																																				10.00	-																																												
Chhoun Ravann,	Resident Engineer-1		12.00	[Schedule bars for Chhoun Ravann]																																				34.00	22.00																																												
Position Merged with Resident Engineer - 1				12.00																																					0.00	(12.00)																																											
Chhor Ratha,	Site Engineer-1		20.00	[Schedule bars for Chhor Ratha]																																				34.00	14.00																																												
Position Merged with Site Engineer - 1				20.00																																					0.00	(20.00)																																											
Pong Veasna,	Site Engineer-3		20.00	[Schedule bars for Pong Veasna]																																				34.00	14.00																																												
Position Merged with Site Engineer - 3				20.00																																					0.00	(20.00)																																											
Hep Sreyleak,	Gender & Development Specialist		6.00	[Schedule bars for Hep Sreyleak]																																				6.00	-																																												
Chap Samoeun,	Resettlement Specialist-1		8.00	[Schedule bars for Chap Samoeun]																																				15.00	7.00																																												
Position Merged with Resettlement Specialist - 1				16.00																																					0.00	(16.00)																																											
Task Transferred to PMU	Financial Management/Accounting Specialist		60.00																																					0.00	(60.00)																																												
Task Transferred to PMU	Procurement Specialist		24.00																																					0.00	(24.00)																																												
Chea Mong,	Environmental Specialist		12.00	[Schedule bars for Chea Mong]																																				12.00	-																																												
Chan Vannak,	Municipal Finance /Tariff/Economic Specialist		24.00	[Schedule bars for Chan Vannak]																																				24.00	-																																												
Houth Ratanak,	Human Resource /Training Coordinator		24.00	[Schedule bars for Houth Ratanak]																																				24.00	-																																												
TBN	Legal Specialist		-	[Schedule bars for TBN]																																				2.00	2.00																																												
TBN	Translator/Interpreter/Editor		-	[Schedule bars for TBN]																																				12.00	12.00																																												
Total (KEY EXPERTS (National))				402.00																																					321.00	(81)																																											
Reserved Person Month (National)																																																																																					
Grand Total (KEY EXPERTS (National))				402.00																																					321.00	81																																											
NON-KEY EXPERTS (National)																																																																																					
Pen Titdara	AutoCAD Operator 1		10.00	[Schedule bars for Pen Titdara]																																				20.00	(10.00)																																												
Chhay Theara	AutoCAD Operator 2		8.00	[Schedule bars for Chhay Theara]																																				18.00	(10.00)																																												
Merged with AutoCAD Operator 1 and 2				8.00																																					0.00	8.00																																											
Total (NON-KEY EXPERTS (National))				26.00																																					38.00	(12.00)																																											
UNALLOCATED																																																																																					
TBN			-																																					10.00	(10.00)																																												
Total (UNALLOCATED (National))				-																																					10	(10.00)																																											
Total (International & National)				428.00																																					369.00	59.00																																											

Continuous Field Input 
 Intermittent Home Office Input 
 Short term intermittent input (to be scheduled according to need) 

Annex 3 : Fund Utilization

Status of Loan Utilization (Loan 3311)

As of 30 Sep 2018

Cat. Ref.	Category Name	US Dollars					
		Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
		A	B	C = A - B	D	E = A - D	F = B - D
01A	CW - KC Flood Protection	14,079,233	-	14,079,233	-	14,079,233	-
01B	CW - KC Solid Waste Mgt.	429,900	-	429,900	-	429,900	-
01C	CW - Pursat Flood Protection	598,790	-	598,790	-	598,790	-
01D	CW - Pursat Drainage	4,850,336	-	4,850,336	-	4,850,336	-
01E	CW - PS Solid Waste Mgt	1,018,919	-	1,018,919	-	1,018,919	-
01F	CW - KC Small-scale Inf. Dev.	732,785	-	732,785	-	732,785	-
01G	CW - PS Small-scale Inf. Dev.	732,785	-	732,785	-	732,785	-
02A	GD - KC Solid Waste Mgt.	729,993	-	729,993	-	729,993	-
02B	GD - PS Solid Waste Mgt	813,740	-	813,740	-	813,740	-
02C	GD - KC Embank. Manual Equipment	36,290	-	36,290	-	36,290	-
02D	GD - PS Flood Manual Equipment	36,290	-	36,290	-	36,290	-
02E	GD - PS Drainage Manual Equipment	36,290	-	36,290	-	36,290	-
03A	WS - Project Mgt & Implement Supp.	575,861	534,000	41,861	82,035	493,826	451,965
03B	WS - SSCD	9,770	-	9,770	-	9,770	-
04A	CS - PM & IS	3,382,798	3,597,913	(215,115)	921,501	2,461,298	2,676,412
04B	CS - SSCD	96,309	-	96,309	-	96,309	-
04C	CS - Survey & Investigations	62,233	135,000	(72,767)	115,350	(53,116)	19,650
05A	IA - Office and Travel Expense	395,494	140,369	255,124	55,780	339,714	84,590
05B	IA - Vehicles	145,189	134,500	10,689	134,500	10,689	-
05C	IA - Equipment	13,660	51,453	(37,793)	41,018	(27,358)	10,435
06	Interest During Implementation	1,389,048	-	1,389,048	14,472	1,374,576	(14,472)
07	Unallocatd	6,621,580	-	6,621,580	-	6,621,580	-
	Imprest Account	(1,341)	-	(1,341)	436,000	(437,341)	(436,000)
	Total	36,785,952	4,593,235	32,192,717	1,800,655	34,985,297	2,792,580

Status of Loan Utilization (Loan 8295)

As of 30 Sep 2018

Cat. Ref.	Category Name	US Dollars					
		Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
		A	B	C = A - B	D	E = A - D	F = B - D
1	CW - KC Flood Protection	4,982,000	-	4,982,000	-	4,982,000	-
2	Service During Implementaton	18,000	-	18,000	-	18,000	-
	Imprest Account			-	-	-	-
	Total	5,000,000	-	5,000,000	-	5,000,000	-

Status of Grant Utilization (Grant 0454)

As of 30 Sep 2018

Cat. Ref.	Category Name	US Dollars					
		Allocation	Contracts Awarded	Uncontracted Loan Balance	Contracts Disbursed	Undisbursed Loan Balance	Undisbursed Contract Balance
		A	B	C = A - B	D	E = A - D	F = B - D
01A	CW - PS Drainage	2,460,000	-	2,460,000	-	2,460,000	-
01B	CW - KC Sanitation Improvement	510,000	-	510,000	-	510,000	-
01C	CW - PS Sanitation Improvement	510,000	-	510,000	-	510,000	-
02A	WS - NGO SCEI	200,000	-	200,000	-	200,000	-
02B	WS - CCAUD	10,000	10,000	10,000	-	10,000	10,000
03A	CS - CCAUD	200,000	200,000	200,000	117,898	82,102	82,102
03B	CS - NGO SCEI	810,000	829,878	810,000	157,609	652,391	672,269
03C	CS - Survey and Investigation	100,000	165,796	100,000	-	100,000	165,796
04	Unallocated	200,000		200,000	-	200,000	-
	Advantage Account	-	-	-	194,000	(194,000)	(194,000)
	Total	5,000,000	1,205,674	5,000,000	469,507	4,530,493	736,166

Annex 4 : Contract Award and Disbursement Projections

Annex 5 : Gender Action Plan Monitoring Table

GENDER ACTION PLAN MONITORING TABLE

STRATEGY	ACTIVITIES AND TARGETS	TIMELINE	RESPONSIBILITY	PROGRESS	ISSUES & CHALLENGES	
Output 1: Kampong Chhnang Urban Environmental Improvements						
Economic empowerment for women	1.1 Equal employment opportunities for female and male unskilled local labor is improved through contractors following relevant clauses on core labor standards in the special conditions of contract (equal pay for equal work, equal opportunities for employment, prioritize employment of women and the poor, providing protective gears to workers, no use of child labors, etc)	During implementation of construction contracts from Q1 2019 to Q2 2021	Contractors, with oversight from PMU, and PMIS consultants	Relevant clauses on core labor standards have been included in the special conditions of contract		
	Target 100% compliance with core labour standards included in the special conditions of contract.					
Reduction in gender inequalities and social risks	1.2 Households irrespective of income, ethnicity or gender of household head receive equal compensation and payment for any land acquisition, resettlement or livelihood losses.	Before award of the respective construction contracts Q4 2018 to Q4 2019	PMU, IRC/GDR, PMIS consultants, and Contractors	Not started		
	Target 100% compliance on equal compensation for similar losses with no gender difference.					
	1.3 Women's financial security is improved by registering household main assets in both husband and wife names.	Before award of the respective construction contracts Q4 2018 to Q4 2019				
	Target In case of relocation 100% of land titles issued in both wife and husband names					
	1.4 Safe and hygienic sanitation conditions are provided for women at work sites.	During implementation of construction contracts from Q1 2019 to				Hygienic sanitation conditions have been included in the special conditions of contract
	Target 100% of contractors provide separate toilet and washing facilities for women and men with adequate privacy for women including adequate arrangements for Menstrual Hygiene Management.					
1.5 Mitigate HIV/AIDS and human trafficking risks during civil works	During implementation of construction contracts from Q1 2019 to	Not started				
Target 100% of contractors' labor force participate in HIV/AIDS training provided by PMIS. Contractors facilitate participation of labour force during working hours.						

STRATEGY	ACTIVITIES AND TARGETS	TIMELINE	RESPONSIBILITY	PROGRESS	ISSUES & CHALLENGES
Output 2: Pursat Urban Environmental Improvements					
Economic empowerment for women	1.1 Equal employment opportunities for female and male unskilled local labor is improved through contractors following relevant clauses on core labor standards in the special conditions of contract (equal pay for equal work, equal opportunities for employment, prioritize employment of women and the poor, providing protective gears to workers, no use of child labors, etc)	During implementation of construction contracts from Q1 2019 to Q2 2021	Contractors, with oversight from PMU, and PMIS consultants	Relevant clauses on core labor standards have been included in the special conditions of contract	
	Target 100% compliance with core labour standards included in the special conditions of contract.				
Reduction in gender inequalities and social risks	2.2 Households irrespective of income, ethnicity or gender of household head receive equal compensation and payment for any land acquisition, resettlement or livelihood losses.	Before award of the respective construction contracts Q4 2018 to Q4 2019	PMU, IRC/GDR, PMIS consultants, and Contractors	Not started	
	Target 100% compliance on equal compensation for similar losses with no gender difference.				
	2.3 Women's financial security is improved by registering household main assets in both husband and wife names.	Before award of the respective construction contracts Q4 2018 to Q4 2019		Not started	
	Target In case of relocation 100% of land titles issued in both wife and husband names				
	2.4 Safe and hygienic sanitation conditions are provided for women at work sites.	During mobilization of contractors		Hygienic sanitation conditions have been included in the special conditions of contract	
Target 100% of contractors provide separate toilet and washing facilities for women and men with adequate privacy for women including adequate arrangements for Menstrual Hygiene Management.					
2.5 Mitigate HIV/AIDS and human trafficking risks during civil works	At the start of				

STRATEGY	ACTIVITIES AND TARGETS	TIMELINE	RESPONSIBILITY	PROGRESS	ISSUES & CHALLENGES	
	<p>Target</p> <p>100% of contractors' labor force participate in HIV/AIDS training provided by PMIS. Contractors facilitate participation of labour force during working hours.</p>	<p>construction works and periodically during the construction activities depending on the turnover of construction labour</p>		<p>Not started</p>		
Output 3: Community Mobilization and Environmental Improvements (CMEI)						
<p>Enhance women's involvement in planning, awareness, and commune and household level conditions on hygiene</p>	<p>3.1 Improved household level sanitation for poor female-headed households which would focus on; (i) safe disposal of urine and faeces including desiccated and composted wastes; (ii) good personal hygiene practices; (iii) importance of clean toilets; food hygiene; (iv) access to clean drinking water and keeping stored water clean and hygienic; (v) safe disposal of wastewater; (vi) implications of inappropriate hygiene practices and associated diseases.</p>		<p>PMU, PIUs, NGO, PDOWA and WCCC</p>	<p>NGO has started HH surveys in villages selected during the PPTA. No survey data have been made available</p>	<p>A well structured mechanism for data sharing between the PMIS and NGO will have to be agreed upon.</p>	
	Targets					
	(i) Household sanitation grants cover 100% of IDPoor 1 and IDPoor 2 female-headed households;				No data	
	(ii) clean functional toilets available for all HH				No data	
	(iii) proper maintenance with safe disposal of urine and faeces for all toilet facilities;				No data	
	(iv) all HH have access to safe drinking water;				No data	
	(v) In all HH good hygienic practices introduced.				No data	
	3.2 Women participate in identification of commune small-scale infrastructure needs and their location					
	Targets					
	(i) 40% of participants in CMEI consultations are women.				No data	
	(ii) 100% of women groups in CMEI project localities are consulted on location and appropriateness of small-scale infrastructure.				No data	
	3.3 Hygiene training and awareness campaigns benefit women				No data	
	Targets					
(i) 40% of participants in CMEI training sessions are women.			No data			
(ii) 30% of hygiene campaigns focus on menstrual hygiene and solid waste management (SWM).			No data			

STRATEGY	ACTIVITIES AND TARGETS	TIMELINE	RESPONSIBILITY	PROGRESS	ISSUES & CHALLENGES
Output 4: Strengthened sector coordination and operations					
Improve integration women's needs in institutional structures for urban area development	4.1 Semi-autonomous urban service units (USU) have women represented.	Depends on the establishment of the USUs	PMU, PIU, PMIS consultants and PDOWA	An initial note on the establishment of USUs has been prepared emphasizing the representation of women	Support for the establishment of USUs by the PMIS will require a contract variation that will transfer the responsibilities and inputs under package 3 to the PMIS
	Target				
	At least 20% of USU staff in Kampong Chhnang and Pursat are women.			Not started	
	4.2 Consultations during Master Plan studies for improvement urban services take into account women's needs.	Q4 2018 to Q1 2019		Not started	
	Targets				
	(i) 100% of women groups are consulted.			Not started	
(ii) 40% participants in general consultations are women.	Not started				
Output 5: Strengthened Capacity for Project Implementation, and Operations and Maintenance					
	Targets				
	5.1 At least 1 member of the Project Steering Committee is a woman.	Before the first meeting of the steering committee		Steering committee has not yet met	
	5.2 At least 30% of PMU and 30% of staff in both PIUs are women, preferably in decision making and technical positions; 2017 Baseline: PMU=1 woman (administration); PIU Kapong Chhnang=1 women (administration); PIU Pursat=1 women (administration).	Q 4 2019		No change in the composition of the PIUs	The present composition of the PMU and PIUs is not in compliance with the target set in the GAP/PAM
	5.3 Project management and implementation consultants include an international social development /resettlement specialist (6 person-months) and national gender specialist (6-person months).	Q4 2016		The international social development specialist has been mobilized. The national gender specialist has not yet been mobilized	
	5.4 A resettlement/social development officer is appointed in the PMU	Q1 2017		A resettlement/social development officer has been appointed in the PMU	

STRATEGY	ACTIVITIES AND TARGETS	TIMELINE	RESPONSIBILITY	PROGRESS	ISSUES & CHALLENGES
Capacity of women strengthened for project implementation, and operations and maintenance	5.5 A government community coordinator is appointed in Pursat PIU and two government community coordinators are in Kampong Chhnang PIU.	Q1 2017	PMU, PIUs and PMIS consultant	2 community coordinators have been included in the Kampong Chhnang PIU and 1 community coordinator in the Pursat PIU	
	5.6 A representative from the PDOWA is appointed to the provincial coordination committee in Pursat and Kampong Chhnang.	Q1 2017		A representative from the PDOWA has participation in meetings with the provincial coordination committee in Pursat and Kampong Chhnang	
	5.7 The annual project performance monitoring and evaluation reports will include progress against sex-disaggregated indicators. Routine monitoring will be done, and indicators and risks added to logical framework.	Q1 2019		A performance monitoring system which will include sex-disaggregated indicators is being set up	
	5.8 Progress reports (e.g., quarterly, safeguards, annual project performance monitoring and evaluation, and PPCR reports) include information on gender activities. The GAP monitoring table is updated and attached to the project progress report (twice a year)	Q4 2018		Included in this progress report	
	5.9 GAP performance included in mid-term and final project reviews.	Dates to be confirmed		Not due	
	5.10 At least 20% of technical training participants are professional staff women of PMU, PIUs and other relevant government agencies.	Q4 2021		Not started	

Annex 6 : Compliance with Loan Covenants

Ref	COVENANT	STATUS	ACTIONS	REMARKS
Covenants in the Loan Agreement				
Sched 5, para 2	Tonle Sap Urban Areas Development Framework. Within 18 months of the Effective Date, the Borrower shall ensure the adoption of the Tonle Sap Urban Areas Development Framework, an urban planning document that guides sustainable and climate resilient infrastructure development and growth of urban areas in the Tonle Sap basin.	Due in September 2017. Under review by Under Secretary of State.	Prakas to be adopted following further review by Secretary of State, Minister MPWT.	Adoption is pending
Sched 5, para 3	Roadmap for Establishing Urban Service Units: Within 12 months of the Effective Date, the Borrower shall ensure, and cause the Project Executing Agency to ensure, that the plans for establishing semi-autonomous USUs within the municipalities of Kampong Chhnang and Pursat are in place, including relevant draft ministerial <u>prakas (or ministerial decisions) to be signed by MPWT</u> for the establishment of USUs, its board of directors (or its equivalent), staffing requirements, human resource recruitment plan, office location, reporting responsibilities, financial management and audit requirements, good governance actions, assets transfer, and <u>timeline and process of conversion from a PIU to a USU.</u>	Due by 02 March 2017. Non-compliant	Ministerial Prakas (103 PRK/SK for Pursat and 104 PRK/SK for Kampong Chhnang), issued on 29 March 2017, establishes the Ministry's commitment for formally establishing a self-financed "wastewater and solid waste management unit in each of the municipalities. An Initial Note on Urban Service Unit Road Map has been prepared by the PIMS	Ministerial Prakas for this purpose were issued on issued on 29 March 2017, confirming the Ministry's commitment for formally establishing a self-financed "wastewater and solid waste management unit in each of the municipalities, these two Prakas, issued in December 2017 for Kampong Chhnang and Pursat (see attached working paper), are provided the legal basis to establish Wastewater Treatment System and Solid Waste Units (WTSSWUs) under control of the PDPWT, not the municipalities. In this respect it is worth noting that these prakas include solid waste management, for which responsibility has been decentralized to the municipalities..

Sched 5, para 4	Environmental Sanitation Fees. Within 18 months of the Effective Date , the Borrower shall ensure, and cause the Project Executing Agency to ensure, that each USU conducts a review of existing Environmental Sanitation Fees levied in the municipalities of Kampong Chhnang and Pursat and completes a feasibility study on levying Environmental Sanitation Fees that recovers operations and maintenance costs and gradual depreciation of solid waste management, flood control and drainage, taking into account affordability for the poor.	Due in September 2017. Non-compliant	Review ongoing under PMIS. In light of the scheduling of other activities related to the construction of solid waste and waste water/drainage infrastructure the date for the establishment of an environmental sanitation fee was premature	Studies on environmental sanitation fees that would ensure O&M cost recovery and gradual depreciation cost will be completed in the 3 rd quarter of 2018. However initial assessments have revealed that self-financing of wastewater and SWM will be very difficult
Sched 5, para 5	Project Performance Monitoring and Evaluation. Within 18 months of the Effective Date, the Borrower shall ensure, and cause the Project Executing Agency to ensure, that a project performance monitoring and evaluation is established, acceptable to ADB, to monitor and evaluate the Project performance during implementation.	Due in September 2017	Project Performance Monitoring is ongoing, it has been agreed that the PPR can be expanded, incorporating a data set for the DMF, to form the PPME	Since multiple consultant teams are involved in the implementation of the project responsibilities for and coordination of data collection will need proper coordination. And possibly the development of an online data collection system
Sched 5, para 6	Environmental Decommissioning of Open Dumpsites. The Borrower shall ensure and cause the Project Executing Agency to ensure that the open dumpsites in Kampong Chhnang and Pursat relating to the Project shall be closed and properly decommissioned according to the plans set forth in the IEEs and finally in the IEEs updated during detailed design.	Not yet due	The existing open dumpsites are mainly located on private land owned or leased by the SWM contractors. The legal implications of closing these private dumpsites with public funds still have to be explored	It is proposed to add a national legal specialist to the PIMS team for assessment of legal issues with regard to closing private dumpsites
Sched 5, para 7	Plan for Climate Change Adaptation. Within 36 months of the Effective Date , the Borrower shall ensure that the Project Executing Agency has adopted the plan for climate change adaptation in urban areas around the Tonle Sap and revised building codes.	Not yet due.		
Sched 5, para 8	Counterpart Funds. The Borrower shall ensure that all counterpart funds necessary for the Project is provided on a timely basis.	Ongoing.		

<p>Sched 5, para 9</p>	<p>Environment. The Borrower shall ensure, and cause the Project Executing Agency to ensure, that the preparation, design, construction, implementation, operation and decommissioning of the Project and all Project facilities comply with (a) all applicable laws and regulations of the Borrower relating to environment, health and safety; (b) the Environmental Safeguards; and (c) all measures and requirements set forth in the EARF, IEEs, the EMPs, and any corrective or preventative actions set forth in a Safeguards Monitoring Report. The Borrower shall ensure, and cause the Project Executing Agency to ensure, that the foregoing is applied and implemented for all outputs of the Project described in Schedule 1, regardless of the financing source.</p>	<p>Ongoing.</p>	<p>Preparatory activities are ongoing for updating the subproject IEEs and the preparation of the EMPs, as well as for the preparation of the government mandates IEAEs to be prepared by an independent licensed firm.</p>	<p>Updating of IEEs and preparation of EMP can only be done after the detailed designs have been substantially completed. It is expected that the detailed designs for the sanitary landfills will be completed by May 2018</p>
<p>Sched 5, para 10</p>	<p>Land Acquisition and Involuntary Resettlement. The Borrower shall ensure, and cause the Project Executing Agency to ensure, that all land and all rights-of-way required for the Project are made available to the Works contractor in accordance with the schedule agreed under the related Works contract and all land acquisition and resettlement activities are implemented in compliance with the RPs based on (a) all applicable laws and regulations of the Borrower relating to land acquisition and involuntary resettlement; (b) the applicable principles and requirements set forth in the SPS; and (c) any necessary corrective or preventative actions as agreed by the IRC set forth in a Safeguards Monitoring Report.</p> <p>Without limiting the application of the SPS or the RPs, the Borrower shall ensure or cause the Project Executing Agency to ensure that no physical or economic displacement takes place in connection with the Project until:</p> <p>(a) prior to the award of any Works contract which involves involuntary resettlement impacts, the Borrower has (i) updated the agreed RPs following completion of detailed design; and (ii) prepared, disclosed to affected persons and submitted to ADB the final RPs based on the Project's detailed design and obtained ADB's concurrence with such RPs;</p> <p>(b) compensation and other entitlements have been provided to affected people in accordance with the RPs; and</p> <p>(c) a comprehensive income and livelihood improvement program has been put in place in accordance with the RPs.</p>	<p>Resettlement and land acquisition for the construction of the flood embankment, landfill facilities and drainage improvement is being brought in compliance with the required steps as per ADB SPS (2009) This covers all AH who were relocated to the new resettlement area or self-relocated in the first half of 2017, but it is not clear if this requirement would also apply to the HH on floating houses who were removed from mooring along</p>	<p>GDR has commenced the implementation of a corrective action plan but has also confirmed that it is unlikely that these challenges could be resolved to bring the project back into compliance. The government will discuss the way forward for the Kampong Chhnang embankment and advise ADB.</p> <p>GDR has conducted a DMS of the AHs located and already moved from the Kampong Chhnang Flood Embankment alignment. GDR has informed that it is difficult to bring the AH already moved from the embankment alignment in compliance with the ADB SPS.</p>	<p>All works for the flood protection embankment have been suspended until the Government and ADB agree on a way forward for the implementation of the embankment.</p>

		the proposed embankment between September and November 2015.		
Sched 5, para 11	Indigenous Peoples. The Project, including Output 3 described in Schedule 1 hereto, shall benefit Ethnic Minorities. The Borrower shall ensure and cause the Project Executing Agency to ensure, that it adheres to applicable laws and regulations of the Borrower relating to indigenous peoples, and the Indigenous Peoples Safeguards and any corrective or preventative actions set forth in a Safeguard Monitoring Report.	Not yet due		
Sched 5, para 12	Human and Financial Resources to Implement Safeguards Requirements. The Borrower shall ensure, and cause the Project Executing Agency to ensure, to make available the necessary budgetary and human resources to fully implement the EARF, EMPs and the RPs.	Not yet due		
Sched 5, para 13	<p>Safeguards – Related Provisions in Bidding Documents and Works Contracts. The Borrower shall ensure, and cause the Project Executing Agency to ensure, that all bidding documents and contracts for Works contain provisions that require contractors to:</p> <p>(a) comply with the measures relevant to the contractor set forth in the EARF, IEEs, the EMPs and the RPs (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set forth in a Safeguards Monitoring Report;</p> <p>(b) make available a budget for all such environmental and social measures; and</p> <p>(c) provide the Borrower with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the EARF, IEEs, the EMPs and the RPs.</p>	Not yet due		
Sched 5, para 15	Safeguards Monitoring and Reporting. The Borrower shall ensure, and cause the Project Executing Agency to do the following:	Being brought in compliance		To be recruited

	<p>(a) no later than the commencement of land acquisition and resettlement activities, engage qualified and experienced external monitoring organization(s) (EMO), under the terms of reference(s) acceptable to the Borrower and ADB to verify information produced through the Project monitoring process and facilitate the carrying out of any verification activities;</p> <p>(b) submit quarterly Safeguards Monitoring Reports relating to implementation of and compliance with the RPs and submit semi-annual Safeguards Monitoring Reports relating to the implementation of and compliance with the EARF, EMPs, and any IPP (if it becomes applicable), in each case to ADB and disclose relevant information from such reports to affected persons promptly upon submission;</p> <p>(c) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the EARF, IEEs, the EMPs and the RPs, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and</p> <p>(d) report any actual or potential breach of compliance with the measures and requirements set forth in the EARF, EMPs or the RPs promptly after becoming aware of the breach.</p>		<p>External monitoring organization to be recruited by GDR</p>	
<p>Sched 5, para 16</p>	<p>Gender and Development. The Borrower shall ensure, and cause the Project Executing Agency to ensure, that (a) the GAP is implemented in accordance with its terms; (b) the bidding documents and contracts include relevant provisions for contractors to comply with the measures set forth in the GAP; (c) adequate resources are allocated for implementation of the GAP; (d) progress on implementation of the GAP, including progress toward achieving key gender outcome and output targets, are regularly monitored and reported to ADB; and (e) key gender outcome and output targets including, but not limited to, 30% of staff in the PMU and PIUs and 20% of staff of USUs shall be composed of women.</p>	<p>Ongoing.</p>	<p>This quarterly report includes the status of compliance with the Gender Action Plan.</p>	

Sched 5, para 17	Labor. The Borrower shall ensure, and cause the Project Executing Agency to ensure (i) compliance with all applicable labor laws of the Borrower on the prohibition of child and forced labor; (ii) giving of equal pay for equal work regardless of gender, ethnicity or social group; and (iii) dissemination of information on sexually transmitted diseases (including HIV/AIDS) and human trafficking to sub-contractors/employees and local communities surrounding the Project construction sites.	Ongoing		
Sched 5, para 18	Governance and Anticorruption. The Borrower, the Project Executing Agency and the Project Implementing Agencies shall (a) comply with ADB's Anticorruption Policy (1998, as amended to date) and acknowledge that ADB reserves the right to investigate directly, or through its agents, any alleged corrupt, fraudulent, collusive or coercive practice relating to the Project; and (b) cooperate with any such investigation and extend all necessary assistance for satisfactory completion of such investigation.	Ongoing		
	The Borrower, the Project Executing Agency and the Project Implementing Agencies shall ensure that the anticorruption provisions acceptable to ADB are included in all bidding documents and contracts, including provisions specifying the right of ADB to audit and examine the records and accounts of the executing and implementing agencies and all contractors, suppliers, consultants, and other service providers as they relate to the Project.	Ongoing		
Sched 5, para 19	Prohibited List of Investments. The Borrower shall ensure that no proceeds of the Loan are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of the SPS.	Ongoing		

Annex 7 : Overview of the input by Key International and National Specialists

KEY EXPERT (INTERNATIONAL)

No.	Expert / Position	Original Contract		Upto Last Quarter		This Quarter		Total		Balance	
		Inputs (Person-Months)		Total Inputs (Person-Months)		Total Inputs (Person-Months)		Total Inputs (Person-Months)		Total Inputs (Person-Months)	
		Home	Field	Home	Field	Home	Field	Home	Field	Home	Field
A. Remuneration											
Key Expert (International)											
KI-01	Christopher Konecki/Louis RIJK <i>Team Leader / Municipal Engineer</i>		35.00		11.77		2.00		13.77		21.23
KI-02	KIM, Dong Min <i>Geotechnical Engineer</i>		4.00		2.27		-		2.27		1.73
KI-03	Ricky Kwan/ Prashant MALLA <i>River Engineering Specialist</i>		8.00		1.43		0.77		2.20		5.80
KI-04	Herkko Kristian Torssonen <i>Solid Waste Management Specialist</i>		6.00		2.93		-		2.93		3.07
KI-05	Cliff Massey/Rachel Wildblood <i>Environment Specialist</i>		4.00		1.57		0.43		2.00		2.00
KI-06	Paul Van Strijp/Teemu Antero Jantunen <i>Social Development and Resettlement Specialist</i>		6.00		4.23		0.63		4.86		1.14
KI-07	Kerry Maxwell Blanch <i>Municipal Finance Specialist/Economist</i>		6.00		2.99		0.93		3.92		2.08
KI-08	Eric Baye <i>Private Sector Specialist</i>		3.00		0.84		0.60		1.44		1.56
KI-09	Claes Clifford <i>Institutional Specialist</i>		6.00		2.4		0.73		3.13		2.87
	Subtotal Key Expert (International)		78.00		30.43		6.09		36.52		41.48

KEY EXPERT (NATIONAL)

No.	Expert / Position	Original Contract		Up to Last Quarter		This Quarter		Total		Balance	
		Inputs (Person-Months)		Total Inputs (Person-Months)		Total Inputs (Person-Months)		Total Inputs (Person-Months)		Total Inputs (Person-Months)	
		Home	Field	Home	Field	Home	Field	Home	Field	Home	Field
Key Expert (National)											
KN-01	Phai Sokheng <i>Deputy Team Leader/Civil Engineer 1</i>	33.00		2.11		-		2.11		30.89	
KN-02	Srey Socheat <i>Deputy Team Leader/Civil Engineer 2</i>	33.00		16.00		4.00		20.00		13.00	
KN-03	Ty Sopheap/Chea Ketia <i>National Geotechnical Engineer</i>	12.00		9.20		2.80		12.00		-	
KN-04	Som Kosal <i>Senior Civil Engineer 1</i>	12.00		-		-		-		12.00	
KN-05	Sim Sen <i>Senior Civil Engineer 2</i>	12.00		7.90		4.00		11.90		0.10	
KN-06	Phung Kattri/ Mam Sanoun <i>Civil Engineer-River Hydrology</i>	12.00		8.90		3.10		12.00		-	
KN-07	Yim Mong Toeun <i>Civil Engineer-Solid Waste Management</i>	10.00		10.00		-		10.00		-	
KN-08	Chhoeum Ravann <i>Resident Engineer 1</i>	12.00		-		-		-		12.00	
KN-09	So Saran <i>Resident Engineer 2</i>	12.00		-		-		-		12.00	
KN-10	Chhor Ratha <i>Site Engineer 1</i>	20.00		-		-		-		20.00	
KN-11	Ro Rosbunnat <i>Site Engineer 2</i>	20.00		-		-		-		20.00	
KN-12	Pong Veasna <i>Site Engineer 3</i>	20.00		-		-		-		20.00	
KN-13	Vuth Ratha <i>Site Engineer 4</i>	20.00		-		-		-		20.00	
KN-14	Chhay Theara <i>AutoCAD Operator-Solid Waste Management</i>	11.50		8.46		3.04		11.50		-	
KN-15	Norm Mara <i>AutoCAD Operator-Drainage and River Bank Protection</i>	14.50		-		-		-		14.50	
KN-16	Pen Tiddara <i>AutoCAD Operator-Flood Control</i>			10.80		3.70		14.50		(14.50)	
KN-17	Hep Srey Leak <i>Gender and Development Specialist</i>	6.00		-		-		-		6.00	
KN-18	Chap Samoeun <i>Resettlement Specialist 1- Pursat</i>			8.96		2.85		11.81		12.19	
KN-19	Mel Sophanna <i>Resettlement Specialist 2- Kampon Chhnang</i>	24.00		-		-		-		-	
KN-20	Chea Mong <i>Environment Specialist</i>	12.00		3.70		2.13		5.83		6.17	
KN-21	Ouk Monyroath <i>Financial Management/Accounting Specialist</i>	60.00		-		-		-		60.00	
KN-22	Bun Sangvar <i>Procurement Specialist</i>	24.00		-		-		-		24.00	
KN-23	Chan Vannak <i>Municipal Finance/Tariff/Economic Specialist</i>	24.00		10.60		1.93		12.53		11.47	
KN-24	Houth Ratanak <i>Human Resource/Training Coordinator</i>	24.00		2.93		1.27		4.20		19.80	
	Subtotal Key Expert (National)	428.00	-	99.56	-	28.82	-	128.38	-	299.62	
	Total (International + National)	506.00	-	130.00	-	34.91	-	164.90	-	341.10	